8586918

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

April 01, 2025

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE RECORDS OF THIS OFFICE OF THE FILE WRAPPER AND CONTENTS OF:

APPLICATION NUMBER: *18/448,417*
FILING DATE: *August 11, 2023*
PATENT NUMBER: *12275449*
ISSUE DATE: *April 15, 2025*

Certified by

ACTING DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/448,417	**08/11/2023 01:31:33 PM ET**	**34757-2775**

Title of Invention

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	3414	FILED BY	Angela Staschke
PATENT CENTER #	62601803	FILING DATE	-
CUSTOMER #	134811	FIRST NAMED INVENTOR	Mark ZEHFUSS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Umar Bakhsh

Documents

TOTAL DOCUMENTS: 6

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
34757-2775 ADS.pdf	9	Application Data Sheet	2174 KB
34757-2775 POA.pdf	2	Power of Attorney	352 KB
34757-2775 Drawings.pdf	18	Drawings-only black and white line drawings	720 KB
34757-2775 Application-APP.TEXT.docx	24	Application body structured text document	41 KB
Warning: Bookmarks were found and have been removed.			
34757-2775 Signed Formals_.pdf	4	Oath or Declaration filed	383 KB

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34757-2775 Application.pdf	24	Auxiliary PDF of Application	197 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
34757-2775 ADS.pdf	A90AD770047B8552F8BBF7AEC4056A069AC953F067FBE3605 0F23AA922414D761C804BBEFD8C873114FFFA47D2513B40D3 5DBEC9BCCFC213B515553C4C515794
34757-2775 POA.pdf	E3D36257915E6B4B76FF5A464E500345FE441C24DC75ACADC B44738D04B2BA378E234D2AE9C2221B2443A52AB30CDC3476 3DEBFCFA0B7E6F3169F517AF49397B
34757-2775 Drawings.pdf	13D9D9AA61B7BDEE240F7DC8D52211AC7341D984B5A0BEA0 F3AD15DE688C9CDD9BB3957414C22C05E91F5EC4FBDC9680 6F65CCE769A08E87B091E7E60940F712
34757-2775 Application-APP.TEXT.docx	D9090BF68F37FA3C73C97481A781D02BDC5F7D24AE39E42D CA64C9209069EE496D999A27D378E727256246301218DEEC14 B62D4E882647F0AB9303E1822569C7
34757-2775 Signed Formals_.pdf	7C8E9A16094BE8AA2EB3295BC846396DB312644A08A5716611 033486AFBD43BBC0475138B55EEA58B3411C238F5FA042538F D8E7CAE7DDF1E5473A36167F5DDB
34757-2775 Application.pdf	5F967661E4A8C84D5C64385AFDA38204C8D62BF69AD0C1F6B E93EA9D30961AB2050445440BA1EF0A45B30A8C5D828635F0 AD515332AF950F24AC3D6EDDADB715

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/448,417	**08/11/2023 01:31:33 PM ET**	**34757-2775**

Title of Invention

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	3414	FILED BY	Angela Staschke
PATENT CENTER #	62601803	AUTHORIZED BY	Umar Bakhsh
CUSTOMER #	134811	FILING DATE	-
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Mark ZEHFUSS

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 195029	E20238AD33237684	Angela Staschke

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
195029	37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1111	UTILITY PATENT APPL. SEARCH FEE	700.00	1	700.00
1011	BASIC FILING FEE - UTILITY (PAPER FILING ALSO REQUIRES NON-ELECTRONIC FILING FEE UNDER 1.16(T))	320.00	1	320.00
1311	PATENT APPL. EXAMINATION FEE	800.00	1	800.00
			TOTAL	**$1,820.00**

AMOUNT:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/82A (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	Filed Herewith
Filing Date	Filed Herewith
First Named Inventor	
Title	REMOVABLE SEAT ATTACHMENT FOR A STROLLER
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	34757-2775

SIGNATURE of Applicant or Patent Practitioner

Signature	/Umar R. Bakhsh/	Date (Optional)	
Name	Umar R. Bakhsh	Registration Number	
Title (if Applicant is a juristic entity)	Attorney for Applicant		
Applicant Name (if Applicant is a juristic entity)	Baby Jogger, LLC		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 134811

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

	Firm or Individual Name				
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

BABY JOGGER, LLC

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	/Karen Borrelli/	Date (Optional)	17 Sept 2015
Name	Karen Borrelli		
Title	Assistant Secretary, Chief Patent Counsel		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/14 (01-22)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2775
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Mark		ZEHFUSS	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Glen Allen	State/Province	VA	Country of Residence	US

Mailing Address of Inventor:

Address 1	10804 Cherry Hill Drive		
Address 2			
City	Glen Allen	State/Province	VA
Postal Code	23059	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	134811		
Email Address	PatentDocket@eversheds-sutherland.us	Add Email	Remove Email

Application Information:

Title of the Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER		
Attorney Docket Number	34757-2775	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	18	Suggested Figure for Publication (if any)	

EVENFLO EX1024

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2775
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	134811		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16903292	2020-06-16

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2775
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16903292	Continuation of	15912901	2018-03-06	10730543	2020-08-04
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15912901	Continuation of	15225326	2016-08-01	9944305	2018-04-17
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number			Filing or 371(c) Date (YYYY-MM-DD)
15225326	Claims benefit of provisional	62311224			2016-03-21
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15225326	Continuation in part of	14597420	2015-01-15	9403550	2016-08-02
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14597420	Continuation of	14261558	2014-04-25	8955869	2015-02-07
Prior Application Status	Abandoned				Remove
Application Number	Continuity Type	Prior Application Number			Filing or 371(c) Date (YYYY-MM-DD)
14261558	Continuation of	12631375			2019-12-04
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number			Filing or 371(c) Date (YYYY-MM-DD)
12631375	Claims benefit of provisional	61119920			2008-12-04
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.					Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2775
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Remove

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2775
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2775
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Baby Jogger, LLC

Mailing Address Information For Applicant:

Address 1	6655 Peachtree Dunwoody Road		
Address 2			
City	Atlanta	**State/Province**	GA
Country	US	Postal Code	30328
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2775
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	34757-2775
	Application Number	
Title of Invention	REMOVABLE SEAT ATTACHMENT FOR A STROLLER	

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REMOVABLE SEAT ATTACHMENT FOR A STROLLER

RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application No. 16/903,292, filed June 16, 2020, which is a continuation of U.S. Patent Application No. 15/912,901, filed March 6, 2018, issued as U.S. Patent No. 10,730,543, which is a continuation of 15/225,326, filed August 1, 2016, issued as U.S. Patent No. 9,944,305, which claims the benefit of U.S. Application No. 62/311,224 filed March 21, 2016, and is a continuation-in-part of U.S. Patent Application No. 14/597,420 , filed January 15, 2015, issued as U.S. Patent No. 9,403,550, which is a continuation of U.S. Patent Application No. 14/261,558, filed on April 25, 2014, issued as U.S. Patent No. 8,955,869, which is a continuation of U.S. Application No. 12/631,375 filed December 4, 2009, which claims the benefit of U.S. Application No. 61/119,920, filed December 4, 2008, the contents of which are all incorporated by reference.

TECHNICAL FIELD

[0002] Embodiments disclosed herein are generally related to children's stroller systems and more particularly to apparatuses and methods for a removable seat attachment for a stroller that is capable of supporting a seat including, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a car seat, or a baby carrier.

BACKGROUND

[0003] Parents or guardians with multiple young children may have difficulty transporting their children from place to place. Children are slow, easily distracted and, therefore, may lag behind. In response, many parents and/or guardians have purchased double seat strollers allowing the parent or guardian to push two children simultaneously and thus allow them to more efficiently run errands, take walks, or jog. As such, a double seat stroller allows the parent or guardian with multiple young children more freedom than they would have with only a single seat stroller.

[0004] However, permanently fixed double seat strollers also have certain disadvantages. Double seat strollers are substantially larger (wider and/or longer) than single seat strollers and are, therefore, more difficult to maneuver through doorways and down aisles in stores. While, the benefits of being able to accommodate two children at one time in a double seat stroller typically

offset these disadvantages, when the parent or guardian has only one child with them, the benefits of the double seat stroller are not realized but the disadvantages still exist.

[0005] Stroller manufacturers have attempted to solve this problem by providing an adjustable stroller that can be modified from having a single seat to having two seats by providing attachments that provide a second seat for the second child that hangs under and slightly behind the seat of the single seat stroller. In other embodiments, the second seat can be attached to a seat attachment placed further forward in the stroller. The current attachment mechanisms can suffer from several drawbacks. These drawbacks include being permanently affixed to the stroller frame and taking up unnecessary space or creating a safety hazard for children not in the stroller when the second seat is not attached to the stroller. In addition, the covers for the seat attachments, for covering a portion of the seat attachment mechanism when not in use, are detachable and can be easily lost when the seat attachment is in use.

BRIEF DESCRIPTION OF THE EXAMPLE DRAWINGS

[0006] For a more complete understanding of the present disclosure and certain features thereof, reference is now made to the following description, in conjunction with the accompanying figures briefly described as follows:

[0007] FIG. 1 presents a side elevation view of a single stroller apparatus according to one example embodiment of the disclosure.

[0008] FIG. 2 presents a partial side elevation view of a seat attachment to convert a single stroller into a double stroller according to one example embodiment of the disclosure.

[0009] FIG. 3 presents a side elevation view of a combination of the single stroller of Figure 1 attached to the seat attachment of Figure 2 according to one example embodiment of the disclosure.

[0010] FIG. 4 presents a perspective view of a seat attachment capable of supporting a car seat on an attachment of Figure 2 according to one example embodiment of the disclosure.

[0011] FIG. 5 presents a side elevation view of a combination of the single stroller of Figure 1 attached to an attachment in the form of a tricycle-like riding device according to one example embodiment of the disclosure.

[0012] FIG. 6A presents a view of an accessory attachment for supporting an accessory on a stroller.

[0013] FIG. 6B presents a view of a bag or purse for attaching to the accessory attachment of Figure 6A according to one example embodiment of the disclosure.

[0014] FIG. 7 presents a perspective view of an attachment for supporting a seat comprising one wheel according to one example embodiment of the disclosure.

[0015] FIGS. 8A-H present multiple views of a stroller apparatus capable of being converted from a single seat stroller to a double seat stroller through the use of removable seat attachment adapters according to one example embodiment of the disclosure.

[0016] FIG. 9 presents a perspective view of one version of a stroller with left and right attachment frame members for attaching a second seat according to one example embodiment of the disclosure.

[0017] FIG. 10 presents a front elevation view of an attachment frame member according to one example embodiment of the disclosure.

[0018] FIG. 11 is a partial perspective view of the stroller showing the seat attachment housing according to one example embodiment of the disclosure.

[0019] FIG. 12 is a partial perspective view of the seat attachment housing according to one example embodiment of the disclosure.

[0020] FIG. 13A-C are partial perspective views of the removable seat attachment adapter removably coupled to the seat attachment housing according to one example embodiment of the disclosure.

[0021] FIG. 14A-C are partial perspective views of an alternative embodiment of the seat attachment housing according to another example embodiment of the disclosure.

DETAILED DESCRIPTION OF THE EXAMPLE EMBODIMENTS

[0022] Example embodiments of the invention now will be described more fully hereinafter with reference to the accompanying drawings, in which example embodiments are shown. The concept disclosed herein may, however, be embodied in many different forms and should not be construed as limited to the exemplary embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art. Like numbers refer to like, but not necessarily the same, elements throughout.

[0023] The example embodiments described herein and shown in the figures is described with reference to an infant or child's stroller that can be configured to adjust from a single seat stroller to a multi-seat stroller. While the example embodiments will generally be described with reference to adding or removing seats from the stroller, the reference to seats is for example purposes only, as the seat or portion that can be added or removed from the stroller can include, but is not limited to, a stroller seat, a baby seat, a bassinet, a pram, a car seat, or a baby carrier. Each of the stroller seat, baby seat, bassinet, pram, car seat, and/or baby carrier should individually be read as an alternative embodiment to the removable/added infant or child's stroller seat described below.

[0024] Certain dimensions and features of the example adjustable stroller are described herein using the term "approximately." As used herein, the term "approximately" indicates that each of the described dimensions is not a strict boundary or parameter and does not exclude functionally similar variations therefrom. Unless context or the description indicates otherwise, the use of the term "approximately" in connection with a numerical parameter indicates that the numerical parameter includes variations that, using mathematical and industrial principles accepted in the art (*e.g.*, rounding, measurement or other systematic errors, manufacturing tolerances, etc.), would not vary the least significant digit.

[0025] In addition, certain relationships between dimensions of the adjustable stroller and between features of the adjustable stroller are described herein using the term "substantially." As used herein, the terms "substantially" and "substantially equal" indicates that the equal relationship is not a strict relationship and does not exclude functionally similar variations therefrom. Unless context or the description indicates otherwise, the use of the term "substantially" or "substantially equal" in connection with two or more described dimensions indicates that the equal relationship between the dimensions includes variations that, using mathematical and industrial principles accepted in the art (*e.g.*, rounding, measurement or other systematic errors, manufacturing tolerances, etc.), would not vary the least significant digit of the dimensions. As used herein, the term "substantially constant" indicates that the constant relationship is not a strict relationship and does not exclude functionally similar variations therefrom. As used herein, the term "substantially parallel" indicates that the parallel relationship is not a strict relationship and does not exclude functionally similar variations therefrom.

[0026] As discussed above, parents or guardians may find themselves in a situation wherein it is more convenient to transport two children in a stroller, but at the same time find it inconvenient to

have both a single stroller and double stroller. Embodiments of the seat attachment solve this problem. In one aspect, an embodiment of the seat attachment for a stroller is capable of converting a single stroller into a double stroller. The seat attachment may support a seat such as, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example. Therefore, the parent or guardian does not require both a single stroller and a double stroller. A stroller configured to receive a seat attachment for converting a single stroller into a double stroller provides convenience to the user. The single stroller may be connected to a double stroller by attaching the seat attachment to the single stroller and then attaching the second seat. As such, an embodiment of the seat attachment for converting a single stroller into a double stroller can include at least one connector portion capable of connecting to a stroller frame and a seat support element capable of supporting a seat.

[0027] Figure 1 presents a side elevation view of a single stroller apparatus 10 according to one example embodiment of the disclosure. Referring to Figure 1, it shows only one side of the single stroller 10, however, most components include a complementary component on the other side of the single stroller but are not shown in Figure 1. The example single stroller 10 includes a frame 12 that supports a seat 13. The frame 12 may optionally include at least one, and in certain embodiments preferably two, folding mechanisms 16 that allow the stroller 10 to be folded to a more convenient size for storing or transporting the stroller 10.

[0028] In the example embodiment of Figure 1, the seat 13 is shown as a typical stroller seat. However, other types of seats may be used in a single stroller. The seat 13 may be permanently affixed to the frame 12 or releasably connected, such that it is capable of being removed and substituted with a different seat. As used herein, "releasably connected" or "releasably attached" means the connection is not a permanent connection and that the connection is capable of being connected and disconnected by the user of the stroller 10 without requiring special tools or special skills. Releasably connections include, but are not limited to, buttons, snaps, friction fittings, interference fits, threaded connections, locking tabs, keyed connections, other fasteners, or the like. The frame 12 is supported on a pair of back wheels 14 and a pair of front wheels 15. In this example embodiment, the back wheels 14 are fixed and do not swivel or pivot on the frame 12 while the pair of front wheels 15 pivot to make turning the single stroller 10 easier and more convenient. Though, pivoting wheels may be preferred in certain strollers, strollers with fixed non-pivoting wheels are also common and considered as an option as part of this disclosure. In certain

example embodiments, the single stroller 10 does not require pairs of front 15 or rear 14 wheels and either the front pair of wheels 15 or the back pair of wheels 14 may be substituted with a single wheel. In certain example embodiments, the single stroller 10, including umbrella strollers, jogging strollers, all-terrain strollers, as well as other strollers may only include one front wheel 15.

[0029] The example single stroller 10 may also include one or more seat attachments that are capable of converting any style of single stroller to a double stroller, including strollers with one or two front wheels. In one example embodiment, the stroller 10 can include two attachment portions 17. In one example, the attachment portions 17 can be positioned on or near the front of the stroller 10 to allow the seat attachment and the seat to be connected to the front portion of the stroller 10. The attachment portions 17 can allow a seat attachment such as the seat attachment for converting the single stroller 10 to a double stroller, as shown in Figure 3, to be connected to the stroller. While only one seat attachment is shown in Figure 3, the stroller 10 could typically include two seat attachments as shown in Figure 3 or one seat attachment that can include two seat support elements. In certain example embodiments, the stroller 10 can include a left side and a right side attachment portion 17. The seat attachment for the stroller 10 can further include corresponding connector portions capable of connecting to the stroller frame at the attachment portions 17. Though the seat attachment for the stroller is described in relation to a single stroller, the attachment may similarly be attached to a double stroller. As such, example embodiments of the seat attachment may therefore be used to convert a double stroller into a triple stroller, if desired.

[0030] Figure 2 presents a partial side elevation view of a seat attachment to convert a single stroller into a double stroller according to one example embodiment of the disclosure. Now referring to Figures 1 and 2, the example seat attachment 20 is shown in an unlocked and folded configuration. The seat attachment 20 includes a one or more connector portions 21 capable of connecting to the attachment frame members 24, two seat attachment elements 22 capable of supporting a seat; and a wheel 23. In this example embodiment, the connector portions 21 are connected to the rear of the seat attachment 20 allowing the seat attachment 20 to be connected to the front of a stroller, such as stroller 10 shown in Figure 1. In other example embodiments, the seat attachment 20 may include more than one wheel 23, one connector portion 21, one seat support element, or combinations of these elements. In example embodiments of the stroller with one wheel, the attachment frame member may be on the forks of the front wheel, for example.

[0031] The seat attachment 20 can include a wheel support frame 26 connecting the wheel 23 to the attachment frame member 24 of the attachment 20. Each attachment frame member 24 has a first and a second end. The first end is capable of connecting to a stroller frame and the second end can be connected to the seat support element 22. As shown in Figure 2, the seat attachment 20 can include a wheel support frame 26 that is pivotally connected to two attachment frame members 24. The wheel support frame 26 or the attachment frame 24 may span the width of the stroller between the two attachment portions 17. The pivotal connection 27 allows the seat attachment 20 to be folded and conveniently stored or transported but is not necessary for all example embodiments of the disclosure. The pivotal connection 27 can be optional and provide more convenience, however, other example embodiments of the seat attachment 20 can include a releasably connected wheel support frame or a rigid frame that may be incorporated to produce a seat attachment that has greater strength for use in situations where a stronger seat attachment may be desired, such as with all-terrain or jogging strollers, for example. The wheel support frame 26 may be connected at any point on the attachment frame 24. In certain example embodiments the wheel support frame 26 is connected to the attachment frame 24 near the connector portion 21 or near the middle of the attachment frame 24.

[0032] In certain example embodiments, the seat attachment without a wheel may include connector portion 21 or attachment frame member 24, and seat attachment member 22, for example. In this example embodiment, there may be no need for the pivotal connection 27, wheel support frame 26, sliding connector 25, or wheel 23.

[0033] The seat attachment 20 can also include a folding mechanism that includes a sliding connector 25 connected to a first end of a strut 28. A second end of the strut 28 can be pivotally connected to wheel support frame 26. In such an embodiment, the sliding connector 25 may be moved between a first position and a second position on the attachment frame member 24. As the sliding connector 25 is moved, the strut 28 pushes the wheel support frame 26 from an in-use position to a storage position. The storage position is more compact as shown in Figure 2. In addition, certain example embodiments of the seat attachment 20 can also include a locking mechanism 29 that is capable of securing the seat attachment 20 to a stroller, such as stroller 10 shown in Figure 1. The locking mechanism 29 can be engaged by moving the sliding connector 25 to the in-use position, in which the wheel support frame 26 and wheel 23 are extended. In certain example embodiments, the wheel 23 of the seat attachment 20 is pivotally connected to the

connector portion 21 and when the wheel 23 is in the in-use position the releasably connection is locked and when the wheel 23 is moved to the storage position, the releasably connection is unlocked allowing the seat attachment 20 to be removed from stroller 10. The seat attachment 20 may be stored and the stroller 10 may be conveniently used as a single stroller. As designed, the seat attachment 20 may be reconnected to the stroller 10 for use as a double stroller when needed. The seat attachment portion may be secured into position on the stroller frame and a locking mechanism may be used with an embodiment with or without the wheel. Either the seat attachment or the stroller frame can include a locking mechanism for securing the stroller and seat attachment together. The locking mechanism may be any mechanism capable of securing the components together during use and may be a friction locking device, threaded connection, peg in a hole, or an interference locking device such as a pin in a hole, for example. As shown in the example embodiment of Figure 2, the locking mechanism 29 pivots with wheel support frame 26 as the seat attachment 20 is moved from an unfolded position to a folded position. The locking mechanism 29 may slide into a hole or notch in the attachment frame member 24 of the stroller 10 shown in Figure 1. As such, the seat attachment 20 may be attached to the stroller 10 by positioning the attachment (connector) portion 21 of the seat attachment 20 in the slot 18 of the attachment portion 17 of the stroller 10. The sliding connector 25 may be moved to the in-use position, the wheel support frame is moved, and the locking mechanism 29 is positioned into the locking slot 19 of the stroller 10.

[0034] In certain example embodiments, the connector portion 21 of the seat attachment 20 has a cylindrical or substantially cylindrical shape. The connector portion 21 may be inserted into a cylindrical or substantially cylindrical slot 18 of the attachment portion 17 of the stroller 10 of Figure 1 to secure the seat attachment and convert the single stroller into a double stroller, as shown in Figure 3. In other example embodiments, the seat attachment 20 may include any type of connector portion having any geometric or non-geometric shape. The connector portion 21 may be of a solid or tubular construction and may be any cross-sectional shape including, but not limited to, circular, polygonal, square, rectangular, and triangular, for example. Other attachment mechanisms may be utilized to connect the seat attachment to the stroller 10 such as, but not limited to, a U-shaped bracket, a U-bolt, a pipe clamp, O-shaped bracket, screw, bolt, or other clamping or attachment means. The attachment frame member 24 of the stroller 10 can have a complimentary and/or cooperating shape that allows the connector portion 21 to be secured to the

attachment portion of the stroller.

[0035] Figure 3 presents a side elevation view of a combination of the single stroller 10 of Figure 1 attached to the seat attachment 20 of Figure 2 according to one example embodiment of the disclosure. Referring to Figure 3, the seat attachment 20 removably coupled to the single stroller 10 to form a double stroller. The double stroller configuration is shown with two stroller seats 13 in an inline configuration, though the other configurations, such as a stroller seat and a bassinet or a pram may also be supported on the double stroller. Further, the seat support element 22 of the seat attachment 20 may be capable of supporting the front stroller seat 13 in either a forward-facing or backward-facing position.

[0036] The example embodiment of the stroller 10 in Figure 3 is shown only as an example of one type of stroller, the frame of the stroller 10 may be any of many possible configurations. Example embodiments of the seat attachment accessory may be configured to be used on any such configuration of a stroller. For example, in another example embodiment, the baby stroller may not include two front wheels, may not include a folding mechanism or may include only one folding mechanism. In addition, the baby stroller may include additional features not included in baby stroller 10. For example, the stroller may optionally include fixed front wheels, an entirely different frame configuration, or a storage basket underneath the seat of the stroller.

[0037] The seat support member may be any configuration capable of supporting the seat on the seat attachment 20. Figure 4 presents another example embodiment of a seat support member 40 for use with a car seat or other baby seat according to one example embodiment of the disclosure. Now referring to Figure 4, the seat support member 40 can include a main support 41. The main support 41 can include a cradle for supporting a central portion of the seat. Another portion of the seat may rest against support bar 42. In this example, the support bar 42 may be adjusted to accommodate seats of different shapes and sizes. The support bar 42 may be slid within the aperture 43 and locked in place when the support bar 42 is in the desired position to support a certain seat. The seat is, therefore, supported on two main supports 41 and the support bar 42. The seat may be further secured in the seat attachment member 40 by wrapping belts 44 and 45 around the seat and locking the belts in this position with a buckle or other securing means.

[0038] Figure 5 presents a side elevation view of a combination 50 of the single stroller 10 of Figure 1 attached to an attachment in the form of a tricycle-like riding device according to one example embodiment of the disclosure. Referring to Figure 5, the combination 50 includes the

stroller 10 and the seat attachment 51. In one example, the seat attachment 51 is a tricycle-like attachment that includes a connector portion 52, a frame 53 with a seat support element 56, a seat 57, and a wheel 55. The tricycle-like attachment may be attached to stroller 10 to allow one child to be pushed in the stroller 10 and one child to ride the seat attachment 51. The seat attachment 51 may be other shapes also such as cars, trucks, or animal shapes, for example.

[0039] In certain example embodiments, the stroller 10 can include an additional accessory attachment portion 58. The accessory attachment portion 58 attaches to a frame member of the stroller 10. An embodiment of the accessory attachment portion 58 is shown on Figure 6A. This embodiment is particularly useful for attaching a bag or purse 64, as shown in Figure 6B, to the stroller 10.

[0040] When using a stroller, parents or guardians typically carry other items, such as purses, grocery bags, cell phones, diapers, cleaning wipes, or other personal or baby related items. Some strollers have bottom storage baskets for placing such items. However, these storage baskets can be inconvenient to access or some light weight strollers do not include such storage baskets. Therefore, users of the stroller may hang purses or shopping bags on the handle of the stroller. This is convenient in that the bag is easy to access, but the weight of the bag on the handle may cause the stroller to be unbalanced and increase the tendency of the stroller to topple backwards. A heavy bag hung from the handle of a stroller may cause the stroller to tip backwards even with a child in the seat. The problem is worse if the stroller is facing uphill, on uneven terrain, being pushed up a curb, or occupied by a small child. The accessory attachment 58 may be attached to the frame of the stroller 10 by any of the clamping or attachment methods described above, for example. Preferably, the accessory attachment 58 is attached near the center of gravity of the stroller 10 to avoid creating an unbalanced condition of the stroller 10. As shown in Figure 6A, the accessory attachment 58 is connected to stroller frame 12 of stroller 10 near the folding mechanism. Certain example embodiments of the accessory attachment 58 include a first end 61 for connecting to a stroller frame and a distal second end 62 for releasably connecting to the accessory 64. The first end 61 can include an aperture 64 that may be connected to frame 12 of the stroller 10. In certain example embodiments, the aperture 64 is on an angle, such that when the axis of the accessory attachment portion 58 is horizontal or substantially horizontal. The accessory attachment 58 may, optionally, include a rib 63 for securing the accessory 64 to the accessory attachment 58. The rib 63 may be replaced with any other locking element or securing means

including a friction fitting, a screwed fitting, or interference fitting, for example.

[0041] One example of an accessory 64 for attaching to an accessory attachment 58 is shown in Figure 6B. The accessory 64 in this example is a bag or purse. The accessory 64 can include an attachment portion 65 that is capable of being secured to the attachment portion 62 on the accessory attachment 58. The accessory 64 may be secured on stroller 10 by securing attachment portion 65 to attachment portion 62. The attachment portion 65 can slide over the cylindrical attachment portion 62 of accessory attachment 58. The attachment portion 65 may include an interior annular recess that receives the rib 63 securing the accessory 58 to the stroller 10. The accessory 64 is thus removably coupled to the stroller 10 in a center portion of the stroller as viewed from the side. Therefore, the bag or purse 64 is conveniently secured to stroller 10 while not contributing to an unbalanced condition of the stroller 10.

[0042] Figure 7 presents a perspective view of an attachment 70 for supporting a seat comprising one wheel 73 according to one example embodiment of the disclosure. Referring now to Figure 7, the example seat attachment 70 can include two seat attachment members 71, two connector portions 72, and a wheel 73. The two seat attachment members 71 and the wheel 73 can be disposed or otherwise positioned in a triangular relationship. In certain example embodiments, the wheel 73 provides additional stability to a stroller 10 connected to the seat attachment 70 if a heavier child is placed in a seat attached to the seat attachment members 71.

[0043] Figures 8A-H present multiple views of a stroller apparatus capable of being converted from a single seat stroller to a double seat stroller through the use of removable seat attachment adapters, according to another example embodiment of the disclosure. Referring now to Figures 8A-H, the example stroller apparatus 80 can include a stroller frame 81 capable of supporting one or more stroller seats 85, 86. In one example embodiment, the stroller frame 81 can be made of one or more pieces fixedly coupled and/or removably coupled to one another. The stroller frame 81 can include portions that are hollow tubing and other portions that are solid core tubing and can be made from metal, plastic, or other materials known in the art.

[0044] In one example embodiment, the stroller frame 81 can include a pair of front wheel support frames 81a (only the left front wheel support frame is shown), a pair of back wheel support frames 81b (only the left back wheel support frame is shown), a pair of upper tube support frames 81c (only the left upper tube support frame is shown), a handle portion 81d having a first end coupled to the left upper tube support frame 81c and a distal second end coupled to the right upper tube

support frame 81c, and foot rest support frame 81f having a first end coupled to the left front wheel support frame 81a (either directly or via the first seat attachment housing 1105 discussed below in Figure 11) and a distal second end coupled to the right front wheel support frame 81a (either directly of via the second seat attachment housing 1110 discussed below in Figure 11). In certain example embodiments, each front wheel support frame 81a can be fixedly coupled or rotatably coupled to its corresponding upper tube support frame 81c. Further, in certain example embodiments, the left upper tube support frame 81c, handle 81d, and right upper tube support frame 81c can be made from a single unitary piece of material, such as a single piece of bent, hollow-core metal or plastic tubing. Alternatively, each of the left upper tube support frame 81c, handle 81d, and right upper tube support frame 81c can be separate pieces of the same or different material that are coupled to one another.

[0045] The exemplary stroller frame 81 can also include a pair of folding mechanisms 81e (only the left folding mechanism is shown). In one example, each folding mechanism 81e can be coupled, either directly or indirectly to the corresponding front wheel support frame 81a, back wheel support frame 81b, and upper tube support frame 81c on the corresponding side (left and right) of the stroller 80. In certain example embodiments, one or more of the corresponding front wheel support frame 81a, back wheel support frame 81b, and upper tube support frame 81c are rotatably coupled and rotatably adjustable about one or more axes defined through the folding mechanism 81e. As such, in certain example embodiments, the folding mechanism 81e allows the stroller 80 to be folded into a more compact size for storing or transportation. Figure 8B shows the stroller 10 in a folded configuration.

[0046] The example stroller 80 can also include at least one front wheel 82 coupled directly or indirectly (*e.g.*, via one of the seat attachment housings 1105, 1110, as shown in Figure 11) to the stroller frame 81. Figure 8B presents an example embodiment wherein the stroller 80 can include two front wheels 82, one front wheel 82 being coupled to the stroller 80 adjacent the left front wheel support frame 81a and the second front wheel 82 being coupled to the stroller 80 adjacent the right front wheel support frame 81a. The example stroller 80 can also include at least one rear wheel 83 coupled directly or indirectly to the stroller frame 81 (*e.g.*, a corresponding back wheel support frame 81b). Figure 8B presents an example embodiment wherein the stroller 80 can include two back wheels 83, one back wheel 83 being coupled to the left back wheel support frame 81b and the second back wheel 83 coupled to the right back wheel support frame 81b.

[0047] The stroller 80 can also include a first stroller seat 86 either fixedly or removably coupled to the stroller frame 81. For example, the first stroller seat 86 can include a left connector on the left side of the first stroller seat 86 and a right connector on the right side of the first stroller seat 86 to removably couple and decouple the first stroller seat from the stroller frame 81. In one example, each of the left connector and right connector can be cavities in the first stroller seat 86 and can be configured to receive at least a portion of a corresponding seat attachment adapter (*e.g.*, a bayonet connector) therein. In another example embodiment, the left connector and the right connector can each be tabs or slots that are configured to be coupled to corresponding slots or tabs along the stroller frame 81.

[0048] The stroller 80 can also include a removable seat attachment adapter 84 that is removably coupled to the frame 81 such that the seat attachment adapter 84 can be decoupled from the frame 81 and stored when a second stroller seat is not being used with the stroller 80. In one example embodiment, each removable seat attachment adapters can be coupled to the frame by coupling the adapter 84 into a seat attachment housing disposed along the frame 81. In one example, the seat attachment housing (such as that described in Figures 11-14C below) can be integrally formed with all or a portion of the stroller frame (*e.g.*, integrally formed with front wheel support frame 81a). Alternatively, the seat attachment housing can be a separate apparatus that is coupled to the frame 81 or incorporated into the frame 81 by coupling multiple pieces of the frame 81 together. The frame 81 and each seat attachment housing can be made from the same or different materials, including, metals and plastics.

[0049] Though it cannot be seen in the side view of Figure 8A, a typical embodiment of the stroller 80 will include at least two removable seat attachment adapters 84 (at least one along each left and right side of the stroller 80 along the stroller frame 81). For example, at least one removable seat attachment adapter can support each lateral side of the second stroller seat 85. In certain example embodiments, each of the removable seat attachment adapters 84 may be made up of one piece or multiple parts. The removable seat attachment adapters 84 may be of any design capable of securely supporting a seat on the stroller. In one example, the removable seat attachment adapter 84 is configured to have a first end that is removably coupled to the frame 81 and/or seat attachment housing and a distal second end that is configured to be removably coupled to a second stroller seat 85. The removable seat attachment adapter 84 is designed to be capable of supporting the

second stroller seat 85 in front of the first stroller seat 86. The stroller 80 may also include a storage basket 87.

[0050] In certain examples, each of the removable seat attachment adapters 84 removably couples to the second stroller seat 85 at a vertical height that is substantially below the vertical height that the first stroller seat 86 attaches to the stroller frame 81, thereby positioning the second stroller seat 85 at a vertical position that is substantially below the vertical position of the first stroller seat 86 when both the first stroller seat 86 and the second stroller seat 85 are coupled to the stroller 80. The difference in vertical positioning of the second stroller seat 85 as compared to the first stroller seat 86 provides improved access to the first stroller seat 86 from the front of the stroller 10 when both stroller seats 85, 86 are coupled to the stroller 80. Further, in certain example embodiments, the first stroller seat 85 can be positioned substantially over the front wheels 82 so that the stroller 80 remains stable. For example, the second stroller seat 85 can be located substantially over the front wheels 82 and the first stroller seat 86 can be located substantially over the rear wheels 83. In addition, the seats 85, 86 can be positioned such that the center of gravity of the stroller 80 is between the front 82 and rear 83 wheels.

[0051] In certain example embodiments, the removable seat attachment adapter 84 is capable of supporting a second stroller seat 85 such that a child in the second stroller seat 85 is substantially above the frame 81 of the stroller 80 that is substantially adjacent to the connection point of the second stroller seat 85. This positioning of the second stroller seat 85 with respect to the frame 81 provides easier access to the second stroller seat 85, does not block access to the storage basket 87, allows more versatile configurations of the seats 85, 86, allows more variety of seats 85, 86 to be attached to the frame 81, and allows the parent or guardian to more easily monitor and see the child in each stroller seat 85, 86.

[0052] The example stroller of Figure 8A can also include the first stroller seat 86. In certain example embodiments, the first stroller seat 86 can be located generally closer to the handle portion 81d than to the front wheels 82. The first stroller seat 86 may be fixedly coupled or removably coupled to the frame 81. In certain example embodiments wherein the first stroller seat 86 is removably coupled to frame 81, the first stroller seat 86 may be adjustable from a forward-facing configuration to a rearward-facing configuration and vice-versa, as shown, for example, in Figures 8B-8C. In addition, the second stroller seat 85, when coupled to the corresponding removable seat

attachment adapters 84, can be adjustable from a forward-facing configuration to a rearward-facing configuration and vice-versa.

[0053] Figures 8C-8H present additional examples of combinations for a variety of types of stroller seats that can be removably coupled to the stroller 80. For example, in Figure 8D, the second stroller seat 85 can be replaced by an infant carrier 93 that can be removably coupled to each of the at least two removable seat attachment adapters 84 and the first stroller seat 86 can be coupled to the stroller in a forward-facing position. In another example, as shown in Figure 8E, the first stroller seat 86 can be replaced by a child carrier 91 that may be coupled to the frame 81 and positioned in the first seat position and the second stroller seat 85 can be coupled to the stroller 80 by way of the at least two removable seat attachment adapters 84 in a rearward-facing position. In yet another example, as shown in Figure 8F, the child carrier 91, of Figure 8E, can be replaced with a pram 92 that is removably coupled to the stroller 80 in the first seat position. In still another example configuration, as shown in Figure 8G, two child carriers 91 may be removably coupled to the stroller frame 81. For example, the front child carrier can be coupled to the stroller by way of each of the at least two removable seat attachment adapters 84. In another example configuration, one of the child carriers 91 may be replaced with a pram or bassinet 92, as shown in Figure 8H.

[0054] In certain example embodiments, the stroller 80 may also include a second set of removable seat attachment adapters 89 removably coupled to the frame 81 (or another pair of seat attachment housings substantially similar to those 1105, 1110 described below) along the upper tube support frame 81c. The second set of removable seat attachment adapters 89 may be substantially the same as or exactly the same as the removable seat attachment adapters 84 described herein and may be coupled to the frame 81 (or corresponding seat attachment housings) in substantially the same manner as the removable seat attachment adapters 84, as discussed in more detail below. The second set of removable seat attachment adapters 89 can include at least two adapters (at least one along each left and right side of the stroller 80) for removably coupling and decoupling the first stroller seat 86 or any other form of seat described herein to the stroller frame 81 or corresponding seat attachment housing.

[0055] In one example embodiment, as shown in Figures 9-10, the stroller 80 can include one or more, and preferably two, seat support elements 84. The seat support element 84 is connected to and can be removably coupled to the stroller 80 front wheel support frame 81a. In certain example

embodiments, the seat support element 84 is adjacent to the front wheel support portion 81a of frame 81. Alternatively, the seat support element 84 is simply forward of and positioned at a vertical level lower than the attachment point for the first stroller seat 86 (Figure 8A) on the stroller 80. The seat support element 84 is capable of supporting a second stroller seat 85 in front of the stroller seat 86 (see Figure 8A). This provides convenience and versatility to a user of the stroller 80. Seat support element 84 may be fixedly attached or removably attached to front wheel support portion 81a. In certain example embodiments, the front seat 85 may be positioned substantially over the front wheels 15 so the stroller 80 remains stable. Preferably, the seats 85, 86 should be positioned such that the center of gravity of the stroller 80 is between the front 15 and rear 14 wheels. If not an additional wheel may be placed on the attachment as previously described. The seat support element 84 can further include a seat connector 88. In one example, the seat connector 88 can be disposed along a top end of the seat support element 84. The example seat connector 88 may be a multipurpose general connector that allows different seats to be interchanged on the seat support element 84. Any style seat may be configured to connect to the seat connector 88, such as but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example. As shown in Figure 9, the seat support element 84 can also include a connector portion 21. The connector portion 21 is capable of connecting the seat attachment to the frame 81 via the attachment portion 17 and the slot 18.

[0056] In certain example embodiments, the connector portion 21 of the seat attachment 20 has a cylindrical or substantially cylindrical shape. The connector portion 21 may be inserted into a cylindrical or substantially cylindrical slot 18 of the attachment portion 17 of the stroller 80 of Figure 9-10 to secure the seat attachment and convert the single stroller into a double stroller, as shown in Figure 8A. The connector portion 21 may be of a solid or tubular construction and may be any cross-sectional shape including, but not limited to, circular, polygonal, square, rectangular, and triangular, for example.

[0057] Figure 11 is a partial perspective view of the stroller 80 showing a seat attachment housing 1105 according to one example embodiment of the disclosure. Referring now to Figures 8A and 11, the example stroller 80 can include a first seat attachment housing 1105 and the second seat attachment housing 1110. The first seat attachment housing 1105 can include a first end 1105a having a cavity for slidably receiving and fixedly or slidably coupling the first end 1105a to a first end of the left front wheel support frame 81a. For example, the left front wheel support frame 81a

can have a substantially circular or oval cross-section and the cavity of the first end 1105a can have a corresponding circular or oval cross-section to slidably receive a portion of the left front wheel support frame 81a into the cavity. In one example, the left front wheel support frame 81a can be held in the cavity of the first end 1105a by a press fit hold. Alternatively, a spring-loaded button on the left front wheel support frame 81a can be positioned into a corresponding opening along one of the sides of the first seat attachment housing 1105.

[0058] The first seat attachment housing 1105 can also include a second end 1105b that includes a second cavity for coupling one of the front wheels 82 to the first seat attachment housing 1105. The wheel 82 may be removably coupled to the second end 1105b of the first seat attachment housing 1105 by a press fit hold. Alternatively, a spring-loaded button 82a on the front wheel apparatus 82 can be positioned into the cavity of the second end 1105b and positioned into a corresponding opening 1115 along one of the sides of the first seat attachment housing 1105. In one example embodiment, the first seat attachment housing 1105 can include an attachment arm 1120 extending off of one side of the first seat attachment housing 1105 in a generally orthogonal direction to the longitudinal axis of the housing 1105. The attachment arm 1120 can include a free end 1105c that includes a cavity for receiving therein and fixedly coupling or slidably coupling the first seat attachment housing 1105 to a first end of the foot rest support frame 81f. The foot rest support frame 81f may be removably coupled to the free end 1105c of the attachment arm 1120 by a press fit hold. Alternatively, a spring-loaded button on the foot rest support frame 81f can be positioned into the cavity of the free end 1105c and positioned into a corresponding opening along one of the sides of the attachment arm 1120.

[0059] The second seat attachment housing 1110 can include a first end 1110a having a cavity for slidably receiving and fixedly or slidably coupling the first end 1110a to a first end of the right front wheel support frame 81a. For example, the right front wheel support frame 81a can have a substantially circular or oval cross-section and the cavity of the first end 1110a can have a corresponding circular or oval cross-section to slidably receive a portion of the right front wheel support frame 81a into the cavity. In one example, the right front wheel support frame 81a can be held in the cavity of the first end 1110a by a press fit hold. Alternatively, a spring-loaded button on the right front wheel support frame 81a can be positioned into a corresponding opening along one of the sides of the second seat attachment housing 1110.

[0060] The second seat attachment housing 1110 can also include a second end 1110b that includes a second cavity for coupling one of the front wheels 82 to the second seat attachment housing 1110. The wheel 82 may be removably coupled to the second end 1110b of the second seat attachment housing 1110 by a press fit hold. Alternatively, a spring-loaded button on the front wheel apparatus 82 can be positioned into the cavity of the second end 1110b and positioned into a corresponding opening along one of the sides of the second seat attachment housing 1110. In one example embodiment, the second seat attachment housing 1110 can include an attachment arm 1125 extending off of one side of the second seat attachment housing 1110 in a generally orthogonal direction to the longitudinal axis of the housing 1110. The attachment arm 1125 can include a free end 1110c that includes a cavity for receiving therein and fixedly coupling or slidably coupling the second seat attachment housing 1110 to a second distal end of the foot rest support frame 81f. The second end of the foot rest support frame 81f may be removably coupled to the free end 1110c of the attachment arm 1125 by a press fit hold. Alternatively, a spring-loaded button on the foot rest support frame 81f can be positioned into the cavity of the free end 1110c and positioned into a corresponding opening along one of the sides of the attachment arm 1125.

[0061] In certain example embodiments, all or a portion of each of the seat attachment housings 1105, 1110 can be hollowed out with exterior sides. Each of the seat attachment housings 1105, 1110 can include an opening 1130 positioned along a top side of the respective seat attachment housings 1105, 1110. The opening 1130 can provide access to an adapter receiving cavity (see Figure 12) for receiving therein at least a portion of the removable seat attachment adapter 84 (see Figure 13A). Each seat attachment housing 1105, 1110 can also include a sliding door 1135. The sliding door 1135 is configured to be manually adjustable from a closed position to an open position by slidably opening the door 1135 along the top side of the seat attachment housing 1105, 1110 to provide access to the opening 1130 and adapter receiving cavity when the parent or guardian wants to insert and couple the removable seat attachment adapter 84 to the seat attachment housing 1105, 1110 and frame 81 in order to couple the second stroller seat 85 to the stroller 80. In one example, each seat attachment housing 1105, 1110 can include one or more rails either disposed above or below a top surface of the seat attachment housing 1105, 1110 that provide a guide way for slidably opening and closing the door 1135. In one example, the door 1135 can include a tab 1140 extending upward from a top surface of the door 1135 to provide a gripping area to grip the door 1135 and slide it open and closed. For example, a parent or guardian

can use a finger against the tab 1140 and apply pressure against the tab 1140 to open the door 1135 from a closed configuration to an open configuration.

[0062] The sliding door 1135 is also configured to be manually adjustable from an open configuration to a closed configuration by slidably closing the door 1135 along the top side of the seat attachment housing 1105, 1110 to prevent access to the opening 1130 and adapter receiving cavity when the second stroller seat 85 is not in use. In one example, the parent or guardian can press a finger against the tab 1140 and apply pressure against the tab 1140 to slide the door 1135 from the open configuration to the closed configuration.

[0063] Figure 12 is a partial perspective view of one of the seat attachment housings 1105, 1110 according to one example embodiment of the disclosure. Referring now to Figures 8A, 11, and 12, the door 1135 of the seat attachment housing 1105, 1110 is shown having been slid into the open configuration exposing the opening 1130 and the adapter receiving cavity 1205. The adapter receiving cavity 1205 can have any size and shape for removably coupling a portion of a removable seat attachment adapter 84 therein. In one example embodiment, all or a portion of the cross-sectional shape of the adapter receiving cavity 1205 can be keyed or have a keyed shape 1210 and all or a portion of the removable seat attachment adapter 84 can have a corresponding outer perimeter shape such that the removable seat attachment adapter 84 can only be inserted into the adapter receiving cavity 1205 in one, proper orientation.

[0064] Figures 13A-C are partial perspective views of the removable seat attachment adapter 84 coupled to the seat attachment housing 1105 according to one example embodiment of the disclosure. Now referring to Figures 8A, 11, 12, and 13A-C, once the door 1135 has been moved into the open configuration exposing the opening 1130 and the adapter receiving cavity 1205, a first end 84a of the removable seat attachment adapter 84 can be inserted into the adapter receiving cavity 1205. In certain example embodiments, the adapter receiving cavity 1205 can include one or more stop flanges 1315, 1320 that extend out from an inner surface of the cavity 1205 and into the cavity area to abut against a bottom side of the first end 84a of the removable seat attachment adapter 84 when the adapter 84 has penetrated a sufficient amount into the adapter receiving cavity 1205. Once the adapter 84 is inserted into the cavity 1205 and removably coupled to the seat attachment housing 1105, a stroller seat can be removable coupled to a seat connector disposed on or adjacent to the second end 84b of the removable seat attachment adapter 84. The seat connector on the second end 84b can be a multipurpose general connector that allows different seats to be

interchangeably connected to the removable seat attachment adapter 84. Any style seat may be configured to connect to the seat connector including, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example.

[0065] The removable seat attachment adapter 84 can also include a stop collar 1335 disposed a predetermined distance up from the first end 84a of the adapter 84. In one example embodiment, the stop collar 1335 is sized and shaped so that it will not fit into the opening 1130 and will not fit into the adapter receiving cavity 1205 as the first end 84a of the adapter 84 is being inserted into the adapter receiving cavity 1205. The size and shape of the outer surface of the stop collar 1335, being greater than that of the outer surface of the previous portion of the first end 84a inserted into the adapter receiving cavity 1205 will contact and abut an outer surface of the seat attachment housing 1105 when the adapter 84 has penetrated a sufficient amount into the adapter receiving cavity 1205.

[0066] The removable seat attachment adapter 84 can also include a spring-loaded latching tab 1305 disposed along one side of the adapter 84 between the first end 84a and the stop collar 1335. In certain example embodiments, the spring-loaded latching tab 1305 can be spring biased into an extended position (as shown in Figure 13B) via, for example, a spring (not shown). As the adapter 84 is first being inserted into the adapter receiving cavity 1205, the width of the adapter 84 at the point of the spring-loaded latching tab 1305, is greater than the width of the cavity 1205, which causes one or more side walls of the cavity 1205 to apply a force to the spring-loaded latching tab 1305 and push it inward from the extended position towards a retracted position, thereby allowing the first end 84a of the adapter 84 to continue moving into the adapter receiving cavity 1205. When the adapter 84 is inserted into the adapter receiving cavity 1205 a sufficient distance (which can be configurable based on the design specifics on the stroller), the spring-loaded latching tab 1305 can be positioned adjacent a tab receiver 1307. The tab receiver 1307 can be a cut-out or opening along one of the side walls of the cavity 1205 that allows the tab 1305 to move back to the extended position. The tab receiver 1307 can include a tab retainer surface 1310 that abuts a top side of the tab 1305 and prevents the removable seat attachment adapter 84 from being removed from the adapter receiving cavity 1205 while the spring-loaded latch tab 1305 is in the extended position.

[0067] The removable seat attachment adapter 84 can also include a tab release button 1330 that is operatively coupled to and configured to move the spring-loaded latching tab 1305 from the extended position to the retracted position via, for example, a guide wire 1325 or other attachment

mechanism. For example, when the removable seat attachment adapter 84 is latched into the seat attachment housing 1105, a parent or guardian can grab the removable seat attachment adapter 84 and depress the tab release button 1330, causing the guide wire to pull the spring-loaded latching tab 1305 inward from the extended position to the retracted position with a force greater than the spring biasing force on the tab 1305 and allowing the parent or guardian to remove the removable seat attachment adapter 84 from the adapter receiving cavity 1205 using only a single hand. Thereby, the ease of decoupling the removable seat attachment adapter 84 from the stroller frame 81 is improved.

[0068] In addition, as shown in Figure 13B, in certain example embodiments, the bottom end of the adapter receiving cavity 1205 and corresponding bottom end of the seat attachment housing 1105 can be open 1340 to the environment. Leaving the bottom side of the cavity 1205 open 1340 to the environment helps to prevent liquid and material build-up in the cavity 1205 when the removable seat attachment adapter 84 is not coupled into the cavity 1205 by allowing the liquid and materials to pass through the cavity 1205 and out of the bottom of the seat attachment housing 1105. This is especially beneficial when the parent or guardian removes the removable seat attachment adapter 84 from the cavity 1205 but does slide the door 1135 into the closed position to close up the opening 1130.

[0069] Figures 14A-C are partial perspective views of an alternative embodiment of the seat attachment housing 1405, 1410 according to another example embodiment of the disclosure. Referring now to Figures 8A, 11, and 14A-C, the seat attachment housings 1405, 1410 are substantially the same as the seat attachment housings 1105, 1110 described in Figures 11-13C except for as described below. Therefore, the description of the seat attachment housings 1105, 1110 in Figures 11-13C above is incorporated herein for the alternative seat attachment housings 1405, 1410, except with regard to the distinctions described below.

[0070] As shown in Figure 14C, each seat attachment housing 1405, 1410 includes an opening or open end 1130 positioned along a top side of the respective seat attachment housings 1405, 1410. The opening 1130 can provide access to an adapter receiving cavity 1205. Each seat attachment housing 1405, 1410 also includes one or more stop flanges 1315, 1320 that extend out from an interior wall 1411 of the cavity 1205 and into the cavity area. In addition, the bottom end of the adapter receiving cavity 1205 and corresponding bottom end of each seat attachment housing

1405, 1410 can have an opening or open end 1340 to the environment and with the cavity 1205 and opening 1130 provides a through-hole 1413 through the seat attachment housing 1405, 1410.

[0071] Each seat attachment housing 1405, 1410 can include a rotating door 1415 rotatably coupled to the seat attachment housing 1405, 1410. For example, the rotating door 1415 can have a fixed end that is rotatably coupled to the top side of the seat attachment housing 1405, 1410 or an interior wall 1411 of the opening 1130 or adapter receiving cavity 1205 by way of one or more hinges 1420. Alternatively, other devices may be used to allow the door 1415 to rotate from a closed configuration 1415a to an open configuration 1415b, as shown in Figure 14C. In certain example embodiments, the door 1415 and/or the rotating mechanism or hinge 1420 that the door 1415 is coupled to can be spring-biased into the closed configuration 1415a through the use of a spring or other biasing means. Spring-biasing the door 1415 into a closed configuration 1415a can help to prevent fluids and other material contaminants from entering the adapter receiving cavity 1205 when the removable seat attachment adapter 84 is not coupled into the adapter receiving cavity 1205.

[0072] When a parent or guardian wants to add a second stroller seat 85 to the stroller 80, they can insert the removable seat attachment adapter 84 into the adapter receiving cavity 1205 by pressing or applying a force with the first end 84a of the removable seat attachment adapter 84 against the top side of the rotating door 1415 with a force that is greater than the spring-biasing force. This will cause the door 1415 to rotate from the closed configuration 1415a towards the open configuration 1415b and allow the first end 84a of the removable seat attachment adapter to enter into the adapter receiving cavity 1205 and be coupled to the seat attachment housing 1405, 1410.

[0073] When the parent or guardian removes the removable seat attachment adapter 84, as described above with regard to Figures 13A-C, as the first end 84a of the removable seat attachment adapter 84 exits the adapter receiving cavity 1205 and opening 1130, the spring-bias of the hinge 1420 or door 1415 will cause the door 1415 to automatically rotate from the open configuration 1415b to the closed configuration 1415a, thereby limiting access to the opening 1130 and the adapter receiving cavity 1205 from the top side of the seat attachment housing 1405, 1410.

[0074] While the above description contains many specifics, these specifics should not be construed as limitations on the scope of the disclosure, but merely as exemplifications of the disclosed embodiments. Those skilled in the art will envision many other possible variations that are within the scope of the disclosure.

CLAIMS

What is claimed is:

1. A stroller, comprising:

a stroller frame comprising a handle portion and a front end portion;

a plurality of wheels comprising a plurality of back wheels;

a first seat coupled to the stroller frame at a first vertical position of the stroller frame, wherein the first seat is disposed closer to the handle portion than the front end portion of the stroller frame;

a first seat attachment housing coupled to the stroller frame at a second vertical position of the stroller frame that is below the first vertical position, wherein a first front wheel and a second front wheel extend from the front end of the stroller;

a second seat attachment housing coupled to the stroller frame at a third vertical position of the stroller frame that is below the first vertical position, wherein the third vertical position is closer to the front end portion than the handle portion;

a first seat attachment adapter spaced from and coupled to the first seat attachment housing by a first attachment frame member; and

a second seat attachment adapter spaced from and coupled to the second seat attachment housing by a second attachment frame member;

wherein the first seat and the second seat, when connected to the frame, are arranged in an inline descending configuration along the stroller frame.

ABSTRACT

A stroller is provided with the ability to removably couple and decouple a seat from the stroller as needed. The stroller can include a stroller frame. The stroller can also include one or more front wheels attached to the stroller frame and one or more rear wheels attached to the stroller frame. The stroller can also include a first seat coupled to the stroller frame. The stroller can include first and second seat attachment housings. Each of the seat attachment housings can include a cavity for receiving a corresponding one of the first and second seat attachment adapters. Each of the seat attachment housings can also include a door cover to prevent access to the respective cavity when not in use. The seat attachment adapters can be coupled to the respective seat attachment housings and a second seat can be coupled to the seat attachment adapters.

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application No. 16/903,292, filed June 16, 2020, which is a continuation of U.S. Patent Application No. 15/912,901, filed March 6, 2018, issued as U.S. Patent No. 10,730,543, which is a continuation of 15/225,326, filed August 1, 2016, issued as U.S. Patent No. 9,944,305, which claims the benefit of U.S. Application No. 62/311,224 filed March 21, 2016, and is a continuation-in-part of U.S. Patent Application No. 14/597,420 , filed January 15, 2015, issued as U.S. Patent No. 9,403,550, which is a continuation of U.S. Patent Application No. 14/261,558, filed on April 25, 2014, issued as U.S. Patent No. 8,955,869, which is a continuation of U.S. Application No. 12/631,375 filed December 4, 2009, which claims the benefit of U.S. Application No. 61/119,920, filed December 4, 2008, the contents of which are all incorporated by reference.

TECHNICAL FIELD

[0002] Embodiments disclosed herein are generally related to children's stroller systems and more particularly to apparatuses and methods for a removable seat attachment for a stroller that is capable of supporting a seat including, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a car seat, or a baby carrier.

BACKGROUND

[0003] Parents or guardians with multiple young children may have difficulty transporting their children from place to place. Children are slow, easily distracted and, therefore, may lag behind. In response, many parents and/or guardians have purchased double seat strollers allowing the parent or guardian to push two children simultaneously and thus allow them to more efficiently run errands, take walks, or jog. As such, a double seat stroller allows the parent or guardian with multiple young children more freedom than they would have with only a single seat stroller.

[0004] However, permanently fixed double seat strollers also have certain disadvantages. Double seat strollers are substantially larger (wider and/or longer) than single seat strollers and are, therefore, more difficult to maneuver through doorways and down aisles in stores. While, the benefits of being able to accommodate two children at one time in a double seat stroller typically

offset these disadvantages, when the parent or guardian has only one child with them, the benefits of the double seat stroller are not realized but the disadvantages still exist.

[0005] Stroller manufacturers have attempted to solve this problem by providing an adjustable stroller that can be modified from having a single seat to having two seats by providing attachments that provide a second seat for the second child that hangs under and slightly behind the seat of the single seat stroller. In other embodiments, the second seat can be attached to a seat attachment placed further forward in the stroller. The current attachment mechanisms can suffer from several drawbacks. These drawbacks include being permanently affixed to the stroller frame and taking up unnecessary space or creating a safety hazard for children not in the stroller when the second seat is not attached to the stroller. In addition, the covers for the seat attachments, for covering a portion of the seat attachment mechanism when not in use, are detachable and can be easily lost when the seat attachment is in use.

BRIEF DESCRIPTION OF THE EXAMPLE DRAWINGS

[0006] For a more complete understanding of the present disclosure and certain features thereof, reference is now made to the following description, in conjunction with the accompanying figures briefly described as follows:

[0007] FIG. 1 presents a side elevation view of a single stroller apparatus according to one example embodiment of the disclosure.

[0008] FIG. 2 presents a partial side elevation view of a seat attachment to convert a single stroller into a double stroller according to one example embodiment of the disclosure.

[0009] FIG. 3 presents a side elevation view of a combination of the single stroller of Figure 1 attached to the seat attachment of Figure 2 according to one example embodiment of the disclosure.

[0010] FIG. 4 presents a perspective view of a seat attachment capable of supporting a car seat on an attachment of Figure 2 according to one example embodiment of the disclosure.

[0011] FIG. 5 presents a side elevation view of a combination of the single stroller of Figure 1 attached to an attachment in the form of a tricycle-like riding device according to one example embodiment of the disclosure.

[0012] FIG. 6A presents a view of an accessory attachment for supporting an accessory on a stroller.

[0013] FIG. 6B presents a view of a bag or purse for attaching to the accessory attachment of Figure 6A according to one example embodiment of the disclosure.

[0014] FIG. 7 presents a perspective view of an attachment for supporting a seat comprising one wheel according to one example embodiment of the disclosure.

[0015] FIGS. 8A-H present multiple views of a stroller apparatus capable of being converted from a single seat stroller to a double seat stroller through the use of removable seat attachment adapters according to one example embodiment of the disclosure.

[0016] FIG. 9 presents a perspective view of one version of a stroller with left and right attachment frame members for attaching a second seat according to one example embodiment of the disclosure.

[0017] FIG. 10 presents a front elevation view of an attachment frame member according to one example embodiment of the disclosure.

[0018] FIG. 11 is a partial perspective view of the stroller showing the seat attachment housing according to one example embodiment of the disclosure.

[0019] FIG. 12 is a partial perspective view of the seat attachment housing according to one example embodiment of the disclosure.

[0020] FIG. 13A-C are partial perspective views of the removable seat attachment adapter removably coupled to the seat attachment housing according to one example embodiment of the disclosure.

[0021] FIG. 14A-C are partial perspective views of an alternative embodiment of the seat attachment housing according to another example embodiment of the disclosure.

DETAILED DESCRIPTION OF THE EXAMPLE EMBODIMENTS

[0022] Example embodiments of the invention now will be described more fully hereinafter with reference to the accompanying drawings, in which example embodiments are shown. The concept disclosed herein may, however, be embodied in many different forms and should not be construed as limited to the exemplary embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art. Like numbers refer to like, but not necessarily the same, elements throughout.

[0023] The example embodiments described herein and shown in the figures is described with reference to an infant or child's stroller that can be configured to adjust from a single seat stroller to a multi-seat stroller. While the example embodiments will generally be described with reference to adding or removing seats from the stroller, the reference to seats is for example purposes only, as the seat or portion that can be added or removed from the stroller can include, but is not limited to, a stroller seat, a baby seat, a bassinet, a pram, a car seat, or a baby carrier. Each of the stroller seat, baby seat, bassinet, pram, car seat, and/or baby carrier should individually be read as an alternative embodiment to the removable/added infant or child's stroller seat described below.

[0024] Certain dimensions and features of the example adjustable stroller are described herein using the term "approximately." As used herein, the term "approximately" indicates that each of the described dimensions is not a strict boundary or parameter and does not exclude functionally similar variations therefrom. Unless context or the description indicates otherwise, the use of the term "approximately" in connection with a numerical parameter indicates that the numerical parameter includes variations that, using mathematical and industrial principles accepted in the art (*e.g.*, rounding, measurement or other systematic errors, manufacturing tolerances, etc.), would not vary the least significant digit.

[0025] In addition, certain relationships between dimensions of the adjustable stroller and between features of the adjustable stroller are described herein using the term "substantially." As used herein, the terms "substantially" and "substantially equal" indicates that the equal relationship is not a strict relationship and does not exclude functionally similar variations therefrom. Unless context or the description indicates otherwise, the use of the term "substantially" or "substantially equal" in connection with two or more described dimensions indicates that the equal relationship between the dimensions includes variations that, using mathematical and industrial principles accepted in the art (*e.g.*, rounding, measurement or other systematic errors, manufacturing tolerances, etc.), would not vary the least significant digit of the dimensions. As used herein, the term "substantially constant" indicates that the constant relationship is not a strict relationship and does not exclude functionally similar variations therefrom. As used herein, the term "substantially parallel" indicates that the parallel relationship is not a strict relationship and does not exclude functionally similar variations therefrom.

[0026] As discussed above, parents or guardians may find themselves in a situation wherein it is more convenient to transport two children in a stroller, but at the same time find it inconvenient to

have both a single stroller and double stroller. Embodiments of the seat attachment solve this problem. In one aspect, an embodiment of the seat attachment for a stroller is capable of converting a single stroller into a double stroller. The seat attachment may support a seat such as, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example. Therefore, the parent or guardian does not require both a single stroller and a double stroller. A stroller configured to receive a seat attachment for converting a single stroller into a double stroller provides convenience to the user. The single stroller may be connected to a double stroller by attaching the seat attachment to the single stroller and then attaching the second seat. As such, an embodiment of the seat attachment for converting a single stroller into a double stroller can include at least one connector portion capable of connecting to a stroller frame and a seat support element capable of supporting a seat.

[0027] Figure 1 presents a side elevation view of a single stroller apparatus 10 according to one example embodiment of the disclosure. Referring to Figure 1, it shows only one side of the single stroller 10, however, most components include a complementary component on the other side of the single stroller but are not shown in Figure 1. The example single stroller 10 includes a frame 12 that supports a seat 13. The frame 12 may optionally include at least one, and in certain embodiments preferably two, folding mechanisms 16 that allow the stroller 10 to be folded to a more convenient size for storing or transporting the stroller 10.

[0028] In the example embodiment of Figure 1, the seat 13 is shown as a typical stroller seat. However, other types of seats may be used in a single stroller. The seat 13 may be permanently affixed to the frame 12 or releasably connected, such that it is capable of being removed and substituted with a different seat. As used herein, "releasably connected" or "releasably attached" means the connection is not a permanent connection and that the connection is capable of being connected and disconnected by the user of the stroller 10 without requiring special tools or special skills. Releasably connections include, but are not limited to, buttons, snaps, friction fittings, interference fits, threaded connections, locking tabs, keyed connections, other fasteners, or the like. The frame 12 is supported on a pair of back wheels 14 and a pair of front wheels 15. In this example embodiment, the back wheels 14 are fixed and do not swivel or pivot on the frame 12 while the pair of front wheels 15 pivot to make turning the single stroller 10 easier and more convenient. Though, pivoting wheels may be preferred in certain strollers, strollers with fixed non-pivoting wheels are also common and considered as an option as part of this disclosure. In certain

example embodiments, the single stroller 10 does not require pairs of front 15 or rear 14 wheels and either the front pair of wheels 15 or the back pair of wheels 14 may be substituted with a single wheel. In certain example embodiments, the single stroller 10, including umbrella strollers, jogging strollers, all-terrain strollers, as well as other strollers may only include one front wheel 15.

[0029] The example single stroller 10 may also include one or more seat attachments that are capable of converting any style of single stroller to a double stroller, including strollers with one or two front wheels. In one example embodiment, the stroller 10 can include two attachment portions 17. In one example, the attachment portions 17 can be positioned on or near the front of the stroller 10 to allow the seat attachment and the seat to be connected to the front portion of the stroller 10. The attachment portions 17 can allow a seat attachment such as the seat attachment for converting the single stroller 10 to a double stroller, as shown in Figure 3, to be connected to the stroller. While only one seat attachment is shown in Figure 3, the stroller 10 could typically include two seat attachments as shown in Figure 3 or one seat attachment that can include two seat support elements. In certain example embodiments, the stroller 10 can include a left side and a right side attachment portion 17. The seat attachment for the stroller 10 can further include corresponding connector portions capable of connecting to the stroller frame at the attachment portions 17. Though the seat attachment for the stroller is described in relation to a single stroller, the attachment may similarly be attached to a double stroller. As such, example embodiments of the seat attachment may therefore be used to convert a double stroller into a triple stroller, if desired.

[0030] Figure 2 presents a partial side elevation view of a seat attachment to convert a single stroller into a double stroller according to one example embodiment of the disclosure. Now referring to Figures 1 and 2, the example seat attachment 20 is shown in an unlocked and folded configuration. The seat attachment 20 includes a one or more connector portions 21 capable of connecting to the attachment frame members 24, two seat attachment elements 22 capable of supporting a seat; and a wheel 23. In this example embodiment, the connector portions 21 are connected to the rear of the seat attachment 20 allowing the seat attachment 20 to be connected to the front of a stroller, such as stroller 10 shown in Figure 1. In other example embodiments, the seat attachment 20 may include more than one wheel 23, one connector portion 21, one seat support element, or combinations of these elements. In example embodiments of the stroller with one wheel, the attachment frame member may be on the forks of the front wheel, for example.

[0031] The seat attachment 20 can include a wheel support frame 26 connecting the wheel 23 to the attachment frame member 24 of the attachment 20. Each attachment frame member 24 has a first and a second end. The first end is capable of connecting to a stroller frame and the second end can be connected to the seat support element 22. As shown in Figure 2, the seat attachment 20 can include a wheel support frame 26 that is pivotally connected to two attachment frame members 24. The wheel support frame 26 or the attachment frame 24 may span the width of the stroller between the two attachment portions 17. The pivotal connection 27 allows the seat attachment 20 to be folded and conveniently stored or transported but is not necessary for all example embodiments of the disclosure. The pivotal connection 27 can be optional and provide more convenience, however, other example embodiments of the seat attachment 20 can include a releasably connected wheel support frame or a rigid frame that may be incorporated to produce a seat attachment that has greater strength for use in situations where a stronger seat attachment may be desired, such as with all-terrain or jogging strollers, for example. The wheel support frame 26 may be connected at any point on the attachment frame 24. In certain example embodiments the wheel support frame 26 is connected to the attachment frame 24 near the connector portion 21 or near the middle of the attachment frame 24.

[0032] In certain example embodiments, the seat attachment without a wheel may include connector portion 21 or attachment frame member 24, and seat attachment member 22, for example. In this example embodiment, there may be no need for the pivotal connection 27, wheel support frame 26, sliding connector 25, or wheel 23.

[0033] The seat attachment 20 can also include a folding mechanism that includes a sliding connector 25 connected to a first end of a strut 28. A second end of the strut 28 can be pivotally connected to wheel support frame 26. In such an embodiment, the sliding connector 25 may be moved between a first position and a second position on the attachment frame member 24. As the sliding connector 25 is moved, the strut 28 pushes the wheel support frame 26 from an in-use position to a storage position. The storage position is more compact as shown in Figure 2. In addition, certain example embodiments of the seat attachment 20 can also include a locking mechanism 29 that is capable of securing the seat attachment 20 to a stroller, such as stroller 10 shown in Figure 1. The locking mechanism 29 can be engaged by moving the sliding connector 25 to the in-use position, in which the wheel support frame 26 and wheel 23 are extended. In certain example embodiments, the wheel 23 of the seat attachment 20 is pivotally connected to the

connector portion 21 and when the wheel 23 is in the in-use position the releasably connection is locked and when the wheel 23 is moved to the storage position, the releasably connection is unlocked allowing the seat attachment 20 to be removed from stroller 10. The seat attachment 20 may be stored and the stroller 10 may be conveniently used as a single stroller. As designed, the seat attachment 20 may be reconnected to the stroller 10 for use as a double stroller when needed. The seat attachment portion may be secured into position on the stroller frame and a locking mechanism may be used with an embodiment with or without the wheel. Either the seat attachment or the stroller frame can include a locking mechanism for securing the stroller and seat attachment together. The locking mechanism may be any mechanism capable of securing the components together during use and may be a friction locking device, threaded connection, peg in a hole, or an interference locking device such as a pin in a hole, for example. As shown in the example embodiment of Figure 2, the locking mechanism 29 pivots with wheel support frame 26 as the seat attachment 20 is moved from an unfolded position to a folded position. The locking mechanism 29 may slide into a hole or notch in the attachment frame member 24 of the stroller 10 shown in Figure 1. As such, the seat attachment 20 may be attached to the stroller 10 by positioning the attachment (connector) portion 21 of the seat attachment 20 in the slot 18 of the attachment portion 17 of the stroller 10. The sliding connector 25 may be moved to the in-use position, the wheel support frame is moved, and the locking mechanism 29 is positioned into the locking slot 19 of the stroller 10.

[0034] In certain example embodiments, the connector portion 21 of the seat attachment 20 has a cylindrical or substantially cylindrical shape. The connector portion 21 may be inserted into a cylindrical or substantially cylindrical slot 18 of the attachment portion 17 of the stroller 10 of Figure 1 to secure the seat attachment and convert the single stroller into a double stroller, as shown in Figure 3. In other example embodiments, the seat attachment 20 may include any type of connector portion having any geometric or non-geometric shape. The connector portion 21 may be of a solid or tubular construction and may be any cross-sectional shape including, but not limited to, circular, polygonal, square, rectangular, and triangular, for example. Other attachment mechanisms may be utilized to connect the seat attachment to the stroller 10 such as, but not limited to, a U-shaped bracket, a U-bolt, a pipe clamp, O-shaped bracket, screw, bolt, or other clamping or attachment means. The attachment frame member 24 of the stroller 10 can have a complimentary and/or cooperating shape that allows the connector portion 21 to be secured to the

attachment portion of the stroller.

[0035] Figure 3 presents a side elevation view of a combination of the single stroller 10 of Figure 1 attached to the seat attachment 20 of Figure 2 according to one example embodiment of the disclosure. Referring to Figure 3, the seat attachment 20 removably coupled to the single stroller 10 to form a double stroller. The double stroller configuration is shown with two stroller seats 13 in an inline configuration, though the other configurations, such as a stroller seat and a bassinet or a pram may also be supported on the double stroller. Further, the seat support element 22 of the seat attachment 20 may be capable of supporting the front stroller seat 13 in either a forward-facing or backward-facing position.

[0036] The example embodiment of the stroller 10 in Figure 3 is shown only as an example of one type of stroller, the frame of the stroller 10 may be any of many possible configurations. Example embodiments of the seat attachment accessory may be configured to be used on any such configuration of a stroller. For example, in another example embodiment, the baby stroller may not include two front wheels, may not include a folding mechanism or may include only one folding mechanism. In addition, the baby stroller may include additional features not included in baby stroller 10. For example, the stroller may optionally include fixed front wheels, an entirely different frame configuration, or a storage basket underneath the seat of the stroller.

[0037] The seat support member may be any configuration capable of supporting the seat on the seat attachment 20. Figure 4 presents another example embodiment of a seat support member 40 for use with a car seat or other baby seat according to one example embodiment of the disclosure. Now referring to Figure 4, the seat support member 40 can include a main support 41. The main support 41 can include a cradle for supporting a central portion of the seat. Another portion of the seat may rest against support bar 42. In this example, the support bar 42 may be adjusted to accommodate seats of different shapes and sizes. The support bar 42 may be slid within the aperture 43 and locked in place when the support bar 42 is in the desired position to support a certain seat. The seat is, therefore, supported on two main supports 41 and the support bar 42. The seat may be further secured in the seat attachment member 40 by wrapping belts 44 and 45 around the seat and locking the belts in this position with a buckle or other securing means.

[0038] Figure 5 presents a side elevation view of a combination 50 of the single stroller 10 of Figure 1 attached to an attachment in the form of a tricycle-like riding device according to one example embodiment of the disclosure. Referring to Figure 5, the combination 50 includes the

stroller 10 and the seat attachment 51. In one example, the seat attachment 51 is a tricycle-like attachment that includes a connector portion 52, a frame 53 with a seat support element 56, a seat 57, and a wheel 55. The tricycle-like attachment may be attached to stroller 10 to allow one child to be pushed in the stroller 10 and one child to ride the seat attachment 51. The seat attachment 51 may be other shapes also such as cars, trucks, or animal shapes, for example.

[0039] In certain example embodiments, the stroller 10 can include an additional accessory attachment portion 58. The accessory attachment portion 58 attaches to a frame member of the stroller 10. An embodiment of the accessory attachment portion 58 is shown on Figure 6A. This embodiment is particularly useful for attaching a bag or purse 64, as shown in Figure 6B, to the stroller 10.

[0040] When using a stroller, parents or guardians typically carry other items, such as purses, grocery bags, cell phones, diapers, cleaning wipes, or other personal or baby related items. Some strollers have bottom storage baskets for placing such items. However, these storage baskets can be inconvenient to access or some light weight strollers do not include such storage baskets. Therefore, users of the stroller may hang purses or shopping bags on the handle of the stroller. This is convenient in that the bag is easy to access, but the weight of the bag on the handle may cause the stroller to be unbalanced and increase the tendency of the stroller to topple backwards. A heavy bag hung from the handle of a stroller may cause the stroller to tip backwards even with a child in the seat. The problem is worse if the stroller is facing uphill, on uneven terrain, being pushed up a curb, or occupied by a small child. The accessory attachment 58 may be attached to the frame of the stroller 10 by any of the clamping or attachment methods described above, for example. Preferably, the accessory attachment 58 is attached near the center of gravity of the stroller 10 to avoid creating an unbalanced condition of the stroller 10. As shown in Figure 6A, the accessory attachment 58 is connected to stroller frame 12 of stroller 10 near the folding mechanism. Certain example embodiments of the accessory attachment 58 include a first end 61 for connecting to a stroller frame and a distal second end 62 for releasably connecting to the accessory 64. The first end 61 can include an aperture 64 that may be connected to frame 12 of the stroller 10. In certain example embodiments, the aperture 64 is on an angle, such that when the axis of the accessory attachment portion 58 is horizontal or substantially horizontal. The accessory attachment 58 may, optionally, include a rib 63 for securing the accessory 64 to the accessory attachment 58. The rib 63 may be replaced with any other locking element or securing means

including a friction fitting, a screwed fitting, or interference fitting, for example.

[0041] One example of an accessory 64 for attaching to an accessory attachment 58 is shown in Figure 6B. The accessory 64 in this example is a bag or purse. The accessory 64 can include an attachment portion 65 that is capable of being secured to the attachment portion 62 on the accessory attachment 58. The accessory 64 may be secured on stroller 10 by securing attachment portion 65 to attachment portion 62. The attachment portion 65 can slide over the cylindrical attachment portion 62 of accessory attachment 58. The attachment portion 65 may include an interior annular recess that receives the rib 63 securing the accessory 58 to the stroller 10. The accessory 64 is thus removably coupled to the stroller 10 in a center portion of the stroller as viewed from the side. Therefore, the bag or purse 64 is conveniently secured to stroller 10 while not contributing to an unbalanced condition of the stroller 10.

[0042] Figure 7 presents a perspective view of an attachment 70 for supporting a seat comprising one wheel 73 according to one example embodiment of the disclosure. Referring now to Figure 7, the example seat attachment 70 can include two seat attachment members 71, two connector portions 72, and a wheel 73. The two seat attachment members 71 and the wheel 73 can be disposed or otherwise positioned in a triangular relationship. In certain example embodiments, the wheel 73 provides additional stability to a stroller 10 connected to the seat attachment 70 if a heavier child is placed in a seat attached to the seat attachment members 71.

[0043] Figures 8A-H present multiple views of a stroller apparatus capable of being converted from a single seat stroller to a double seat stroller through the use of removable seat attachment adapters, according to another example embodiment of the disclosure. Referring now to Figures 8A-H, the example stroller apparatus 80 can include a stroller frame 81 capable of supporting one or more stroller seats 85, 86. In one example embodiment, the stroller frame 81 can be made of one or more pieces fixedly coupled and/or removably coupled to one another. The stroller frame 81 can include portions that are hollow tubing and other portions that are solid core tubing and can be made from metal, plastic, or other materials known in the art.

[0044] In one example embodiment, the stroller frame 81 can include a pair of front wheel support frames 81a (only the left front wheel support frame is shown), a pair of back wheel support frames 81b (only the left back wheel support frame is shown), a pair of upper tube support frames 81c (only the left upper tube support frame is shown), a handle portion 81d having a first end coupled to the left upper tube support frame 81c and a distal second end coupled to the right upper tube

support frame 81c, and foot rest support frame 81f having a first end coupled to the left front wheel support frame 81a (either directly or via the first seat attachment housing 1105 discussed below in Figure 11) and a distal second end coupled to the right front wheel support frame 81a (either directly of via the second seat attachment housing 1110 discussed below in Figure 11). In certain example embodiments, each front wheel support frame 81a can be fixedly coupled or rotatably coupled to its corresponding upper tube support frame 81c. Further, in certain example embodiments, the left upper tube support frame 81c, handle 81d, and right upper tube support frame 81c can be made from a single unitary piece of material, such as a single piece of bent, hollow-core metal or plastic tubing. Alternatively, each of the left upper tube support frame 81c, handle 81d, and right upper tube support frame 81c can be separate pieces of the same or different material that are coupled to one another.

[0045] The exemplary stroller frame 81 can also include a pair of folding mechanisms 81e (only the left folding mechanism is shown). In one example, each folding mechanism 81e can be coupled, either directly or indirectly to the corresponding front wheel support frame 81a, back wheel support frame 81b, and upper tube support frame 81c on the corresponding side (left and right) of the stroller 80. In certain example embodiments, one or more of the corresponding front wheel support frame 81a, back wheel support frame 81b, and upper tube support frame 81c are rotatably coupled and rotatably adjustable about one or more axes defined through the folding mechanism 81e. As such, in certain example embodiments, the folding mechanism 81e allows the stroller 80 to be folded into a more compact size for storing or transportation. Figure 8B shows the stroller 10 in a folded configuration.

[0046] The example stroller 80 can also include at least one front wheel 82 coupled directly or indirectly (*e.g.*, via one of the seat attachment housings 1105, 1110, as shown in Figure 11) to the stroller frame 81. Figure 8B presents an example embodiment wherein the stroller 80 can include two front wheels 82, one front wheel 82 being coupled to the stroller 80 adjacent the left front wheel support frame 81a and the second front wheel 82 being coupled to the stroller 80 adjacent the right front wheel support frame 81a. The example stroller 80 can also include at least one rear wheel 83 coupled directly or indirectly to the stroller frame 81 (*e.g.*, a corresponding back wheel support frame 81b). Figure 8B presents an example embodiment wherein the stroller 80 can include two back wheels 83, one back wheel 83 being coupled to the left back wheel support frame 81b and the second back wheel 83 coupled to the right back wheel support frame 81b.

[0047] The stroller 80 can also include a first stroller seat 86 either fixedly or removably coupled to the stroller frame 81. For example, the first stroller seat 86 can include a left connector on the left side of the first stroller seat 86 and a right connector on the right side of the first stroller seat 86 to removably couple and decouple the first stroller seat from the stroller frame 81. In one example, each of the left connector and right connector can be cavities in the first stroller seat 86 and can be configured to receive at least a portion of a corresponding seat attachment adapter (*e.g.*, a bayonet connector) therein. In another example embodiment, the left connector and the right connector can each be tabs or slots that are configured to be coupled to corresponding slots or tabs along the stroller frame 81.

[0048] The stroller 80 can also include a removable seat attachment adapter 84 that is removably coupled to the frame 81 such that the seat attachment adapter 84 can be decoupled from the frame 81 and stored when a second stroller seat is not being used with the stroller 80. In one example embodiment, each removable seat attachment adapters can be coupled to the frame by coupling the adapter 84 into a seat attachment housing disposed along the frame 81. In one example, the seat attachment housing (such as that described in Figures 11-14C below) can be integrally formed with all or a portion of the stroller frame (*e.g.*, integrally formed with front wheel support frame 81a). Alternatively, the seat attachment housing can be a separate apparatus that is coupled to the frame 81 or incorporated into the frame 81 by coupling multiple pieces of the frame 81 together. The frame 81 and each seat attachment housing can be made from the same or different materials, including, metals and plastics.

[0049] Though it cannot be seen in the side view of Figure 8A, a typical embodiment of the stroller 80 will include at least two removable seat attachment adapters 84 (at least one along each left and right side of the stroller 80 along the stroller frame 81). For example, at least one removable seat attachment adapter can support each lateral side of the second stroller seat 85. In certain example embodiments, each of the removable seat attachment adapters 84 may be made up of one piece or multiple parts. The removable seat attachment adapters 84 may be of any design capable of securely supporting a seat on the stroller. In one example, the removable seat attachment adapter 84 is configured to have a first end that is removably coupled to the frame 81 and/or seat attachment housing and a distal second end that is configured to be removably coupled to a second stroller seat 85. The removable seat attachment adapter 84 is designed to be capable of supporting the

second stroller seat 85 in front of the first stroller seat 86. The stroller 80 may also include a storage basket 87.

[0050] In certain examples, each of the removable seat attachment adapters 84 removably couples to the second stroller seat 85 at a vertical height that is substantially below the vertical height that the first stroller seat 86 attaches to the stroller frame 81, thereby positioning the second stroller seat 85 at a vertical position that is substantially below the vertical position of the first stroller seat 86 when both the first stroller seat 86 and the second stroller seat 85 are coupled to the stroller 80. The difference in vertical positioning of the second stroller seat 85 as compared to the first stroller seat 86 provides improved access to the first stroller seat 86 from the front of the stroller 10 when both stroller seats 85, 86 are coupled to the stroller 80. Further, in certain example embodiments, the first stroller seat 85 can be positioned substantially over the front wheels 82 so that the stroller 80 remains stable. For example, the second stroller seat 85 can be located substantially over the front wheels 82 and the first stroller seat 86 can be located substantially over the rear wheels 83. In addition, the seats 85, 86 can be positioned such that the center of gravity of the stroller 80 is between the front 82 and rear 83 wheels.

[0051] In certain example embodiments, the removable seat attachment adapter 84 is capable of supporting a second stroller seat 85 such that a child in the second stroller seat 85 is substantially above the frame 81 of the stroller 80 that is substantially adjacent to the connection point of the second stroller seat 85. This positioning of the second stroller seat 85 with respect to the frame 81 provides easier access to the second stroller seat 85, does not block access to the storage basket 87, allows more versatile configurations of the seats 85, 86, allows more variety of seats 85, 86 to be attached to the frame 81, and allows the parent or guardian to more easily monitor and see the child in each stroller seat 85, 86.

[0052] The example stroller of Figure 8A can also include the first stroller seat 86. In certain example embodiments, the first stroller seat 86 can be located generally closer to the handle portion 81d than to the front wheels 82. The first stroller seat 86 may be fixedly coupled or removably coupled to the frame 81. In certain example embodiments wherein the first stroller seat 86 is removably coupled to frame 81, the first stroller seat 86 may be adjustable from a forward-facing configuration to a rearward-facing configuration and vice-versa, as shown, for example, in Figures 8B-8C. In addition, the second stroller seat 85, when coupled to the corresponding removable seat

attachment adapters 84, can be adjustable from a forward-facing configuration to a rearward-facing configuration and vice-versa.

[0053] Figures 8C-8H present additional examples of combinations for a variety of types of stroller seats that can be removably coupled to the stroller 80. For example, in Figure 8D, the second stroller seat 85 can be replaced by an infant carrier 93 that can be removably coupled to each of the at least two removable seat attachment adapters 84 and the first stroller seat 86 can be coupled to the stroller in a forward-facing position. In another example, as shown in Figure 8E, the first stroller seat 86 can be replaced by a child carrier 91 that may be coupled to the frame 81 and positioned in the first seat position and the second stroller seat 85 can be coupled to the stroller 80 by way of the at least two removable seat attachment adapters 84 in a rearward-facing position. In yet another example, as shown in Figure 8F, the child carrier 91, of Figure 8E, can be replaced with a pram 92 that is removably coupled to the stroller 80 in the first seat position. In still another example configuration, as shown in Figure 8G, two child carriers 91 may be removably coupled to the stroller frame 81. For example, the front child carrier can be coupled to the stroller by way of each of the at least two removable seat attachment adapters 84. In another example configuration, one of the child carriers 91 may be replaced with a pram or bassinet 92, as shown in Figure 8H.

[0054] In certain example embodiments, the stroller 80 may also include a second set of removable seat attachment adapters 89 removably coupled to the frame 81 (or another pair of seat attachment housings substantially similar to those 1105, 1110 described below) along the upper tube support frame 81c. The second set of removable seat attachment adapters 89 may be substantially the same as or exactly the same as the removable seat attachment adapters 84 described herein and may be coupled to the frame 81 (or corresponding seat attachment housings) in substantially the same manner as the removable seat attachment adapters 84, as discussed in more detail below. The second set of removable seat attachment adapters 89 can include at least two adapters (at least one along each left and right side of the stroller 80) for removably coupling and decoupling the first stroller seat 86 or any other form of seat described herein to the stroller frame 81 or corresponding seat attachment housing.

[0055] In one example embodiment, as shown in Figures 9-10, the stroller 80 can include one or more, and preferably two, seat support elements 84. The seat support element 84 is connected to and can be removably coupled to the stroller 80 front wheel support frame 81a. In certain example

embodiments, the seat support element 84 is adjacent to the front wheel support portion 81a of frame 81. Alternatively, the seat support element 84 is simply forward of and positioned at a vertical level lower than the attachment point for the first stroller seat 86 (Figure 8A) on the stroller 80. The seat support element 84 is capable of supporting a second stroller seat 85 in front of the stroller seat 86 (see Figure 8A). This provides convenience and versatility to a user of the stroller 80. Seat support element 84 may be fixedly attached or removably attached to front wheel support portion 81a. In certain example embodiments, the front seat 85 may be positioned substantially over the front wheels 15 so the stroller 80 remains stable. Preferably, the seats 85, 86 should be positioned such that the center of gravity of the stroller 80 is between the front 15 and rear 14 wheels. If not an additional wheel may be placed on the attachment as previously described. The seat support element 84 can further include a seat connector 88. In one example, the seat connector 88 can be disposed along a top end of the seat support element 84. The example seat connector 88 may be a multipurpose general connector that allows different seats to be interchanged on the seat support element 84. Any style seat may be configured to connect to the seat connector 88, such as but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example. As shown in Figure 9, the seat support element 84 can also include a connector portion 21. The connector portion 21 is capable of connecting the seat attachment to the frame 81 via the attachment portion 17 and the slot 18.

[0056] In certain example embodiments, the connector portion 21 of the seat attachment 20 has a cylindrical or substantially cylindrical shape. The connector portion 21 may be inserted into a cylindrical or substantially cylindrical slot 18 of the attachment portion 17 of the stroller 80 of Figure 9-10 to secure the seat attachment and convert the single stroller into a double stroller, as shown in Figure 8A. The connector portion 21 may be of a solid or tubular construction and may be any cross-sectional shape including, but not limited to, circular, polygonal, square, rectangular, and triangular, for example.

[0057] Figure 11 is a partial perspective view of the stroller 80 showing a seat attachment housing 1105 according to one example embodiment of the disclosure. Referring now to Figures 8A and 11, the example stroller 80 can include a first seat attachment housing 1105 and the second seat attachment housing 1110. The first seat attachment housing 1105 can include a first end 1105a having a cavity for slidably receiving and fixedly or slidably coupling the first end 1105a to a first end of the left front wheel support frame 81a. For example, the left front wheel support frame 81a

can have a substantially circular or oval cross-section and the cavity of the first end 1105a can have a corresponding circular or oval cross-section to slidably receive a portion of the left front wheel support frame 81a into the cavity. In one example, the left front wheel support frame 81a can be held in the cavity of the first end 1105a by a press fit hold. Alternatively, a spring-loaded button on the left front wheel support frame 81a can be positioned into a corresponding opening along one of the sides of the first seat attachment housing 1105.

[0058] The first seat attachment housing 1105 can also include a second end 1105b that includes a second cavity for coupling one of the front wheels 82 to the first seat attachment housing 1105. The wheel 82 may be removably coupled to the second end 1105b of the first seat attachment housing 1105 by a press fit hold. Alternatively, a spring-loaded button 82a on the front wheel apparatus 82 can be positioned into the cavity of the second end 1105b and positioned into a corresponding opening 1115 along one of the sides of the first seat attachment housing 1105. In one example embodiment, the first seat attachment housing 1105 can include an attachment arm 1120 extending off of one side of the first seat attachment housing 1105 in a generally orthogonal direction to the longitudinal axis of the housing 1105. The attachment arm 1120 can include a free end 1105c that includes a cavity for receiving therein and fixedly coupling or slidably coupling the first seat attachment housing 1105 to a first end of the foot rest support frame 81f. The foot rest support frame 81f may be removably coupled to the free end 1105c of the attachment arm 1120 by a press fit hold. Alternatively, a spring-loaded button on the foot rest support frame 81f can be positioned into the cavity of the free end 1105c and positioned into a corresponding opening along one of the sides of the attachment arm 1120.

[0059] The second seat attachment housing 1110 can include a first end 1110a having a cavity for slidably receiving and fixedly or slidably coupling the first end 1110a to a first end of the right front wheel support frame 81a. For example, the right front wheel support frame 81a can have a substantially circular or oval cross-section and the cavity of the first end 1110a can have a corresponding circular or oval cross-section to slidably receive a portion of the right front wheel support frame 81a into the cavity. In one example, the right front wheel support frame 81a can be held in the cavity of the first end 1110a by a press fit hold. Alternatively, a spring-loaded button on the right front wheel support frame 81a can be positioned into a corresponding opening along one of the sides of the second seat attachment housing 1110.

[0060] The second seat attachment housing 1110 can also include a second end 1110b that includes a second cavity for coupling one of the front wheels 82 to the second seat attachment housing 1110. The wheel 82 may be removably coupled to the second end 1110b of the second seat attachment housing 1110 by a press fit hold. Alternatively, a spring-loaded button on the front wheel apparatus 82 can be positioned into the cavity of the second end 1110b and positioned into a corresponding opening along one of the sides of the second seat attachment housing 1110. In one example embodiment, the second seat attachment housing 1110 can include an attachment arm 1125 extending off of one side of the second seat attachment housing 1110 in a generally orthogonal direction to the longitudinal axis of the housing 1110. The attachment arm 1125 can include a free end 1110c that includes a cavity for receiving therein and fixedly coupling or slidably coupling the second seat attachment housing 1110 to a second distal end of the foot rest support frame 81f. The second end of the foot rest support frame 81f may be removably coupled to the free end 1110c of the attachment arm 1125 by a press fit hold. Alternatively, a spring-loaded button on the foot rest support frame 81f can be positioned into the cavity of the free end 1110c and positioned into a corresponding opening along one of the sides of the attachment arm 1125.

[0061] In certain example embodiments, all or a portion of each of the seat attachment housings 1105, 1110 can be hollowed out with exterior sides. Each of the seat attachment housings 1105, 1110 can include an opening 1130 positioned along a top side of the respective seat attachment housings 1105, 1110. The opening 1130 can provide access to an adapter receiving cavity (see Figure 12) for receiving therein at least a portion of the removable seat attachment adapter 84 (see Figure 13A). Each seat attachment housing 1105, 1110 can also include a sliding door 1135. The sliding door 1135 is configured to be manually adjustable from a closed position to an open position by slidably opening the door 1135 along the top side of the seat attachment housing 1105, 1110 to provide access to the opening 1130 and adapter receiving cavity when the parent or guardian wants to insert and couple the removable seat attachment adapter 84 to the seat attachment housing 1105, 1110 and frame 81 in order to couple the second stroller seat 85 to the stroller 80. In one example, each seat attachment housing 1105, 1110 can include one or more rails either disposed above or below a top surface of the seat attachment housing 1105, 1110 that provide a guide way for slidably opening and closing the door 1135. In one example, the door 1135 can include a tab 1140 extending upward from a top surface of the door 1135 to provide a gripping area to grip the door 1135 and slide it open and closed. For example, a parent or guardian

can use a finger against the tab 1140 and apply pressure against the tab 1140 to open the door 1135 from a closed configuration to an open configuration.

[0062] The sliding door 1135 is also configured to be manually adjustable from an open configuration to a closed configuration by slidably closing the door 1135 along the top side of the seat attachment housing 1105, 1110 to prevent access to the opening 1130 and adapter receiving cavity when the second stroller seat 85 is not in use. In one example, the parent or guardian can press a finger against the tab 1140 and apply pressure against the tab 1140 to slide the door 1135 from the open configuration to the closed configuration.

[0063] Figure 12 is a partial perspective view of one of the seat attachment housings 1105, 1110 according to one example embodiment of the disclosure. Referring now to Figures 8A, 11, and 12, the door 1135 of the seat attachment housing 1105, 1110 is shown having been slid into the open configuration exposing the opening 1130 and the adapter receiving cavity 1205. The adapter receiving cavity 1205 can have any size and shape for removably coupling a portion of a removable seat attachment adapter 84 therein. In one example embodiment, all or a portion of the cross-sectional shape of the adapter receiving cavity 1205 can be keyed or have a keyed shape 1210 and all or a portion of the removable seat attachment adapter 84 can have a corresponding outer perimeter shape such that the removable seat attachment adapter 84 can only be inserted into the adapter receiving cavity 1205 in one, proper orientation.

[0064] Figures 13A-C are partial perspective views of the removable seat attachment adapter 84 coupled to the seat attachment housing 1105 according to one example embodiment of the disclosure. Now referring to Figures 8A, 11, 12, and 13A-C, once the door 1135 has been moved into the open configuration exposing the opening 1130 and the adapter receiving cavity 1205, a first end 84a of the removable seat attachment adapter 84 can be inserted into the adapter receiving cavity 1205. In certain example embodiments, the adapter receiving cavity 1205 can include one or more stop flanges 1315, 1320 that extend out from an inner surface of the cavity 1205 and into the cavity area to abut against a bottom side of the first end 84a of the removable seat attachment adapter 84 when the adapter 84 has penetrated a sufficient amount into the adapter receiving cavity 1205. Once the adapter 84 is inserted into the cavity 1205 and removably coupled to the seat attachment housing 1105, a stroller seat can be removable coupled to a seat connector disposed on or adjacent to the second end 84b of the removable seat attachment adapter 84. The seat connector on the second end 84b can be a multipurpose general connector that allows different seats to be

interchangeably connected to the removable seat attachment adapter 84. Any style seat may be configured to connect to the seat connector including, but not limited to, a stroller seat, a baby seat, a bassinet, a pram, a baby carrier, or a car seat, for example.

[0065] The removable seat attachment adapter 84 can also include a stop collar 1335 disposed a predetermined distance up from the first end 84a of the adapter 84. In one example embodiment, the stop collar 1335 is sized and shaped so that it will not fit into the opening 1130 and will not fit into the adapter receiving cavity 1205 as the first end 84a of the adapter 84 is being inserted into the adapter receiving cavity 1205. The size and shape of the outer surface of the stop collar 1335, being greater than that of the outer surface of the previous portion of the first end 84a inserted into the adapter receiving cavity 1205 will contact and abut an outer surface of the seat attachment housing 1105 when the adapter 84 has penetrated a sufficient amount into the adapter receiving cavity 1205.

[0066] The removable seat attachment adapter 84 can also include a spring-loaded latching tab 1305 disposed along one side of the adapter 84 between the first end 84a and the stop collar 1335. In certain example embodiments, the spring-loaded latching tab 1305 can be spring biased into an extended position (as shown in Figure 13B) via, for example, a spring (not shown). As the adapter 84 is first being inserted into the adapter receiving cavity 1205, the width of the adapter 84 at the point of the spring-loaded latching tab 1305, is greater than the width of the cavity 1205, which causes one or more side walls of the cavity 1205 to apply a force to the spring-loaded latching tab 1305 and push it inward from the extended position towards a retracted position, thereby allowing the first end 84a of the adapter 84 to continue moving into the adapter receiving cavity 1205. When the adapter 84 is inserted into the adapter receiving cavity 1205 a sufficient distance (which can be configurable based on the design specifics on the stroller), the spring-loaded latching tab 1305 can be positioned adjacent a tab receiver 1307. The tab receiver 1307 can be a cut-out or opening along one of the side walls of the cavity 1205 that allows the tab 1305 to move back to the extended position. The tab receiver 1307 can include a tab retainer surface 1310 that abuts a top side of the tab 1305 and prevents the removable seat attachment adapter 84 from being removed from the adapter receiving cavity 1205 while the spring-loaded latch tab 1305 is in the extended position.

[0067] The removable seat attachment adapter 84 can also include a tab release button 1330 that is operatively coupled to and configured to move the spring-loaded latching tab 1305 from the extended position to the retracted position via, for example, a guide wire 1325 or other attachment

mechanism. For example, when the removable seat attachment adapter 84 is latched into the seat attachment housing 1105, a parent or guardian can grab the removable seat attachment adapter 84 and depress the tab release button 1330, causing the guide wire to pull the spring-loaded latching tab 1305 inward from the extended position to the retracted position with a force greater than the spring biasing force on the tab 1305 and allowing the parent or guardian to remove the removable seat attachment adapter 84 from the adapter receiving cavity 1205 using only a single hand. Thereby, the ease of decoupling the removable seat attachment adapter 84 from the stroller frame 81 is improved.

[0068] In addition, as shown in Figure 13B, in certain example embodiments, the bottom end of the adapter receiving cavity 1205 and corresponding bottom end of the seat attachment housing 1105 can be open 1340 to the environment. Leaving the bottom side of the cavity 1205 open 1340 to the environment helps to prevent liquid and material build-up in the cavity 1205 when the removable seat attachment adapter 84 is not coupled into the cavity 1205 by allowing the liquid and materials to pass through the cavity 1205 and out of the bottom of the seat attachment housing 1105. This is especially beneficial when the parent or guardian removes the removable seat attachment adapter 84 from the cavity 1205 but does slide the door 1135 into the closed position to close up the opening 1130.

[0069] Figures 14A-C are partial perspective views of an alternative embodiment of the seat attachment housing 1405, 1410 according to another example embodiment of the disclosure. Referring now to Figures 8A, 11, and 14A-C, the seat attachment housings 1405, 1410 are substantially the same as the seat attachment housings 1105, 1110 described in Figures 11-13C except for as described below. Therefore, the description of the seat attachment housings 1105, 1110 in Figures 11-13C above is incorporated herein for the alternative seat attachment housings 1405, 1410, except with regard to the distinctions described below.

[0070] As shown in Figure 14C, each seat attachment housing 1405, 1410 includes an opening or open end 1130 positioned along a top side of the respective seat attachment housings 1405, 1410. The opening 1130 can provide access to an adapter receiving cavity 1205. Each seat attachment housing 1405, 1410 also includes one or more stop flanges 1315, 1320 that extend out from an interior wall 1411 of the cavity 1205 and into the cavity area. In addition, the bottom end of the adapter receiving cavity 1205 and corresponding bottom end of each seat attachment housing

1405, 1410 can have an opening or open end 1340 to the environment and with the cavity 1205 and opening 1130 provides a through-hole 1413 through the seat attachment housing 1405, 1410.

[0071] Each seat attachment housing 1405, 1410 can include a rotating door 1415 rotatably coupled to the seat attachment housing 1405, 1410. For example, the rotating door 1415 can have a fixed end that is rotatably coupled to the top side of the seat attachment housing 1405, 1410 or an interior wall 1411 of the opening 1130 or adapter receiving cavity 1205 by way of one or more hinges 1420. Alternatively, other devices may be used to allow the door 1415 to rotate from a closed configuration 1415a to an open configuration 1415b, as shown in Figure 14C. In certain example embodiments, the door 1415 and/or the rotating mechanism or hinge 1420 that the door 1415 is coupled to can be spring-biased into the closed configuration 1415a through the use of a spring or other biasing means. Spring-biasing the door 1415 into a closed configuration 1415a can help to prevent fluids and other material contaminants from entering the adapter receiving cavity 1205 when the removable seat attachment adapter 84 is not coupled into the adapter receiving cavity 1205.

[0072] When a parent or guardian wants to add a second stroller seat 85 to the stroller 80, they can insert the removable seat attachment adapter 84 into the adapter receiving cavity 1205 by pressing or applying a force with the first end 84a of the removable seat attachment adapter 84 against the top side of the rotating door 1415 with a force that is greater than the spring-biasing force. This will cause the door 1415 to rotate from the closed configuration 1415a towards the open configuration 1415b and allow the first end 84a of the removable seat attachment adapter to enter into the adapter receiving cavity 1205 and be coupled to the seat attachment housing 1405, 1410.

[0073] When the parent or guardian removes the removable seat attachment adapter 84, as described above with regard to Figures 13A-C, as the first end 84a of the removable seat attachment adapter 84 exits the adapter receiving cavity 1205 and opening 1130, the spring-bias of the hinge 1420 or door 1415 will cause the door 1415 to automatically rotate from the open configuration 1415b to the closed configuration 1415a, thereby limiting access to the opening 1130 and the adapter receiving cavity 1205 from the top side of the seat attachment housing 1405, 1410.

[0074] While the above description contains many specifics, these specifics should not be construed as limitations on the scope of the disclosure, but merely as exemplifications of the disclosed embodiments. Those skilled in the art will envision many other possible variations that are within the scope of the disclosure.

CLAIMS

What is claimed is:

1. A stroller, comprising:

a stroller frame comprising a handle portion and a front end portion;

a plurality of wheels comprising a plurality of back wheels;

a first seat coupled to the stroller frame at a first vertical position of the stroller frame, wherein the first seat is disposed closer to the handle portion than the front end portion of the stroller frame;

a first seat attachment housing coupled to the stroller frame at a second vertical position of the stroller frame that is below the first vertical position, wherein a first front wheel and a second front wheel extend from the front end of the stroller;

a second seat attachment housing coupled to the stroller frame at a third vertical position of the stroller frame that is below the first vertical position, wherein the third vertical position is closer to the front end portion than the handle portion;

a first seat attachment adapter spaced from and coupled to the first seat attachment housing by a first attachment frame member; and

a second seat attachment adapter spaced from and coupled to the second seat attachment housing by a second attachment frame member;

wherein the first seat and the second seat, when connected to the frame, are arranged in an inline descending configuration along the stroller frame.

ABSTRACT

A stroller is provided with the ability to removably couple and decouple a seat from the stroller as needed. The stroller can include a stroller frame. The stroller can also include one or more front wheels attached to the stroller frame and one or more rear wheels attached to the stroller frame. The stroller can also include a first seat coupled to the stroller frame. The stroller can include first and second seat attachment housings. Each of the seat attachment housings can include a cavity for receiving a corresponding one of the first and second seat attachment adapters. Each of the seat attachment housings can also include a door cover to prevent access to the respective cavity when not in use. The seat attachment adapters can be coupled to the respective seat attachment housings and a second seat can be coupled to the seat attachment adapters.

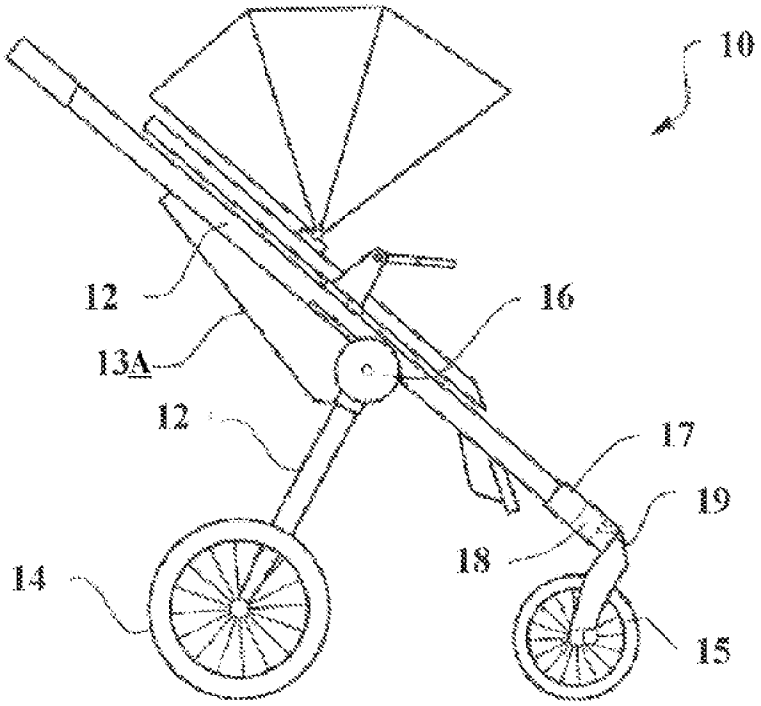

FIGURE 1

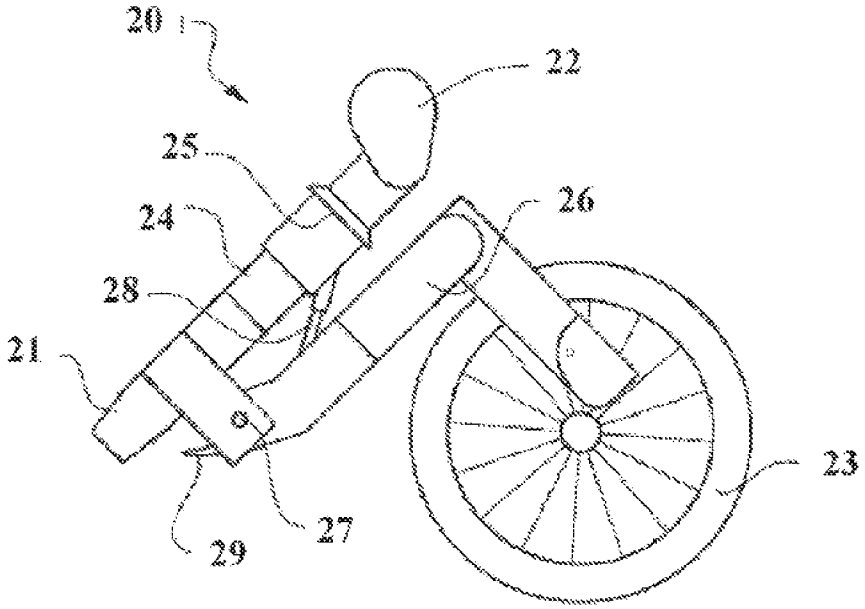

FIGURE 2

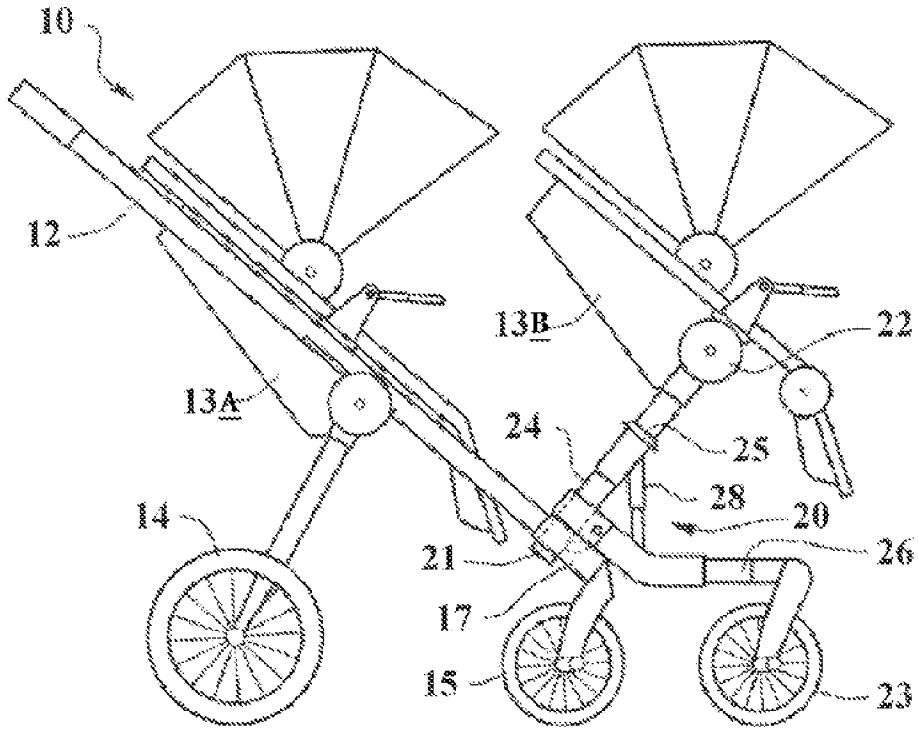

FIGURE 3

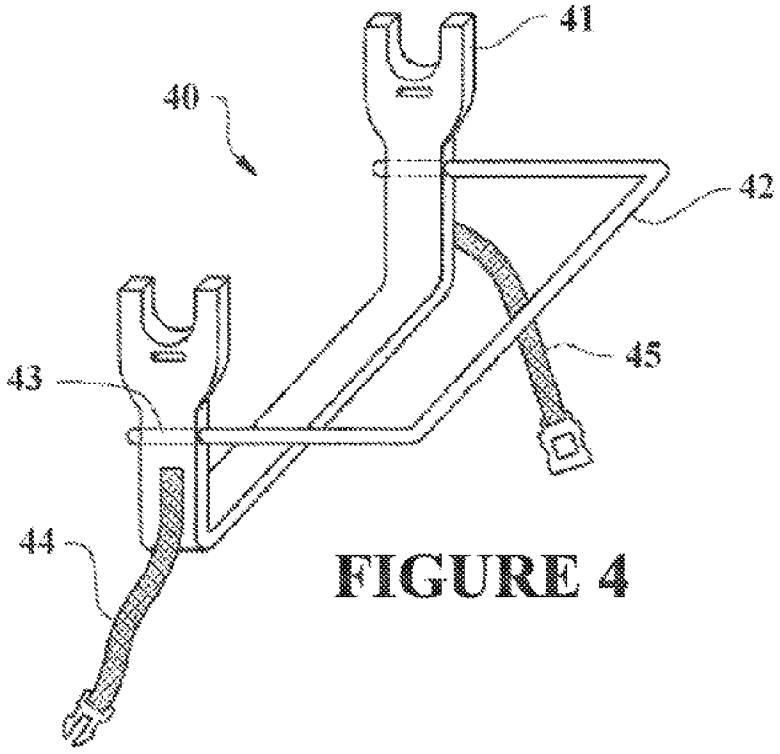

FIGURE 4

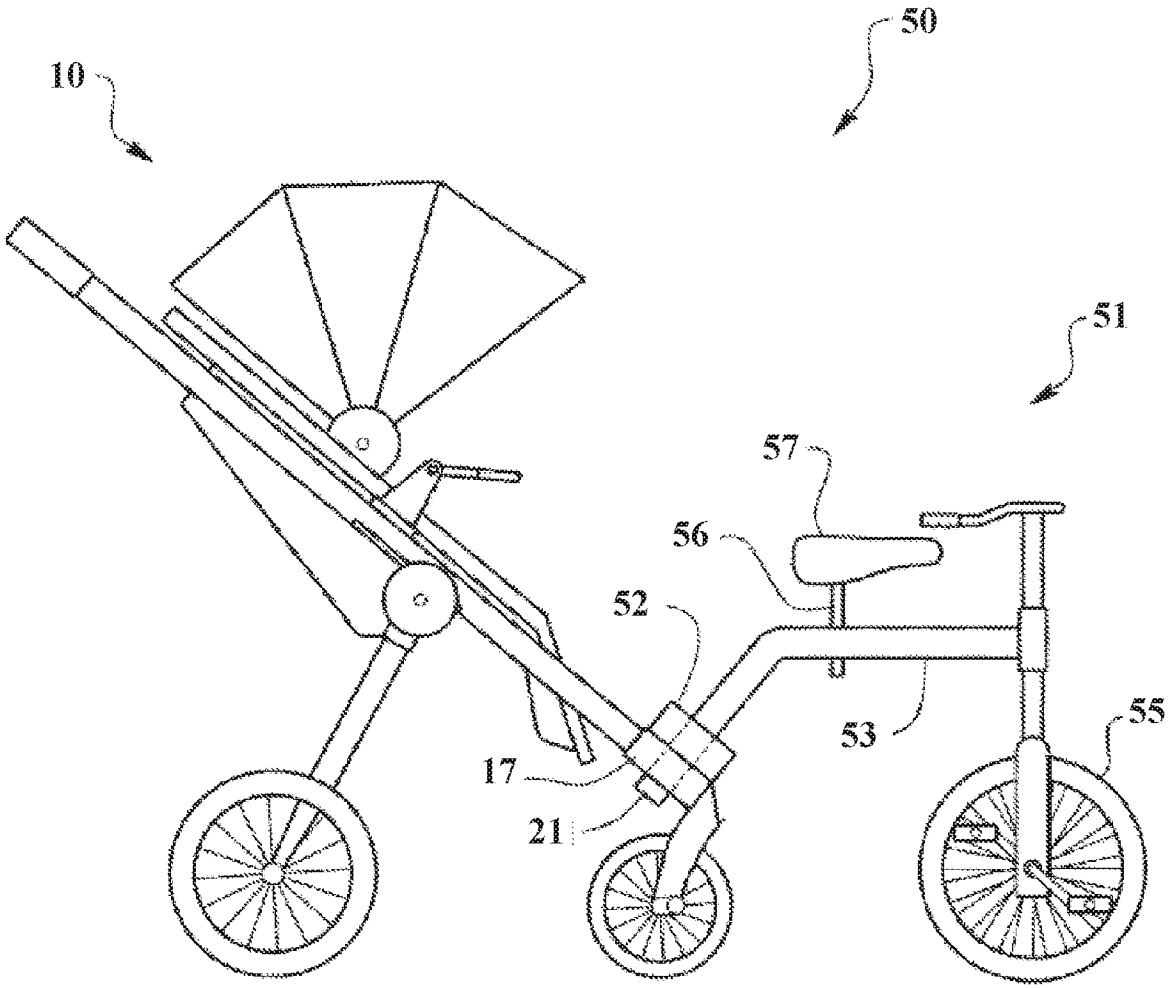

FIGURE 5

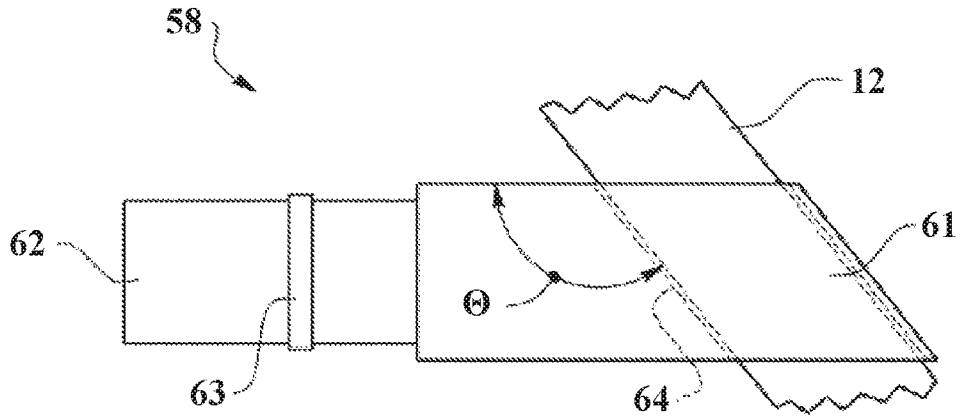

FIGURE 6A

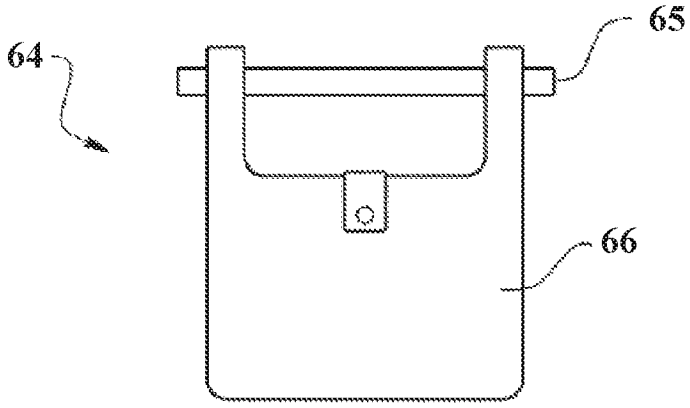

FIGURE 6B

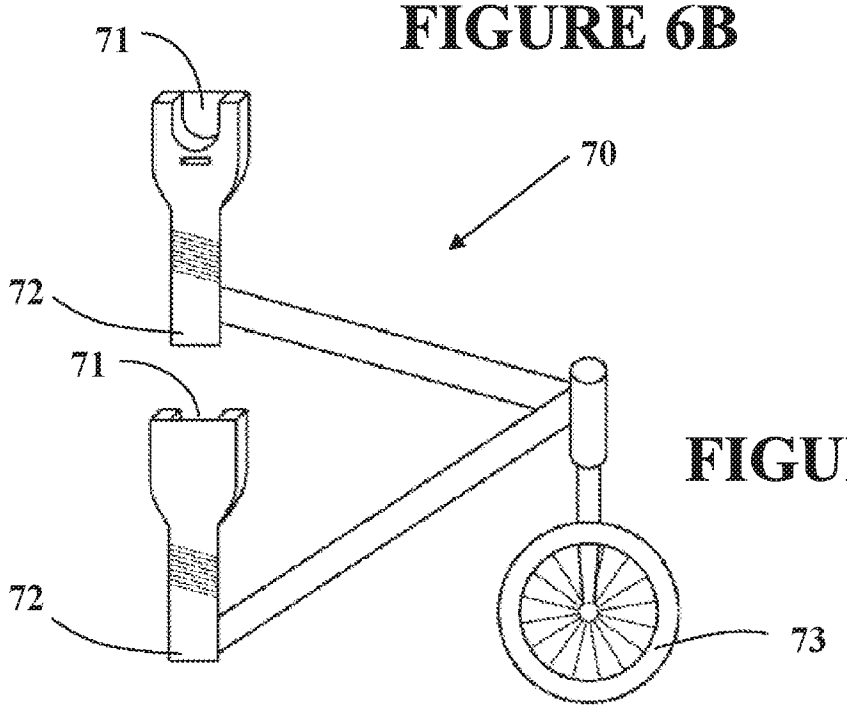

FIGURE 7

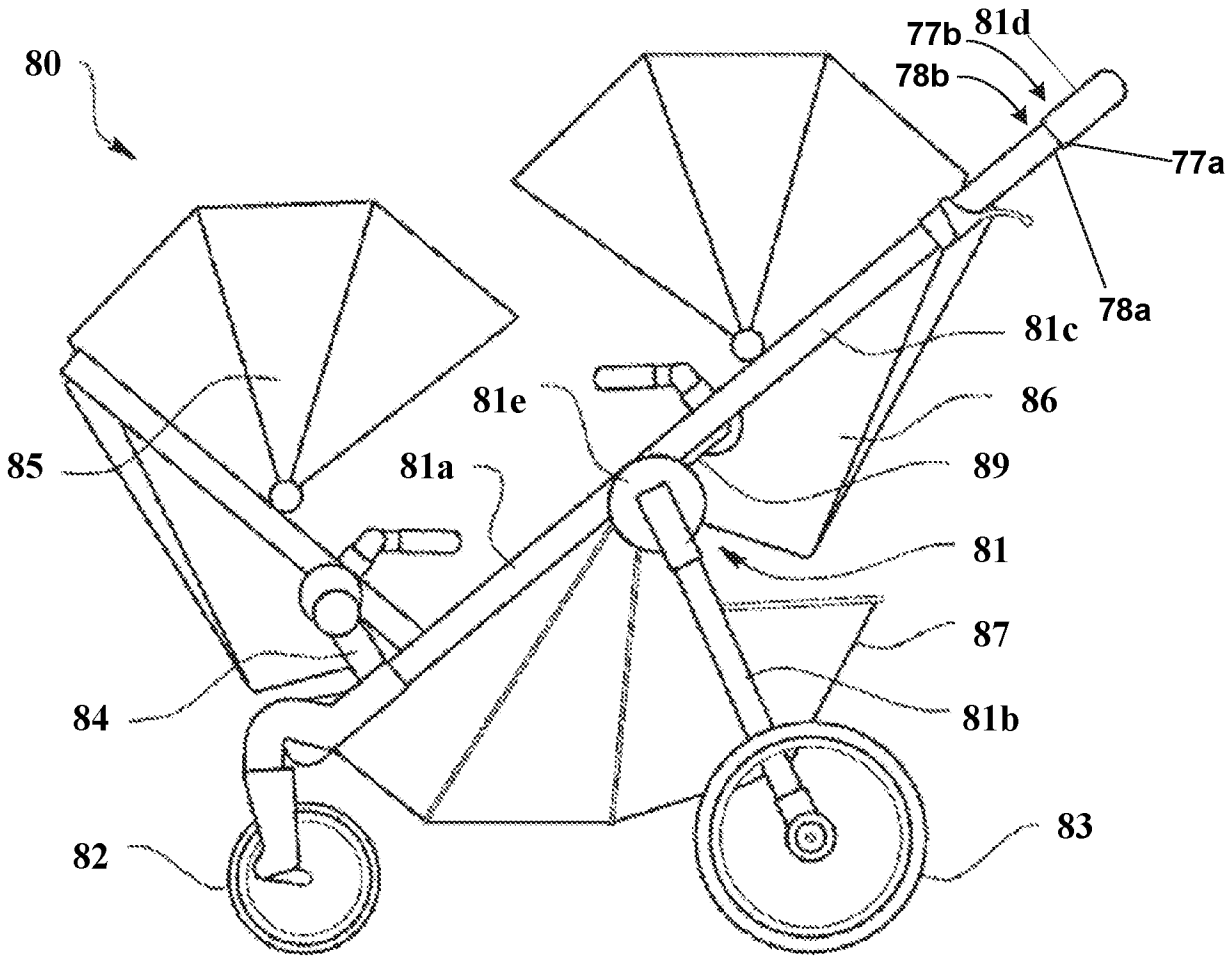

FIGURE 8A

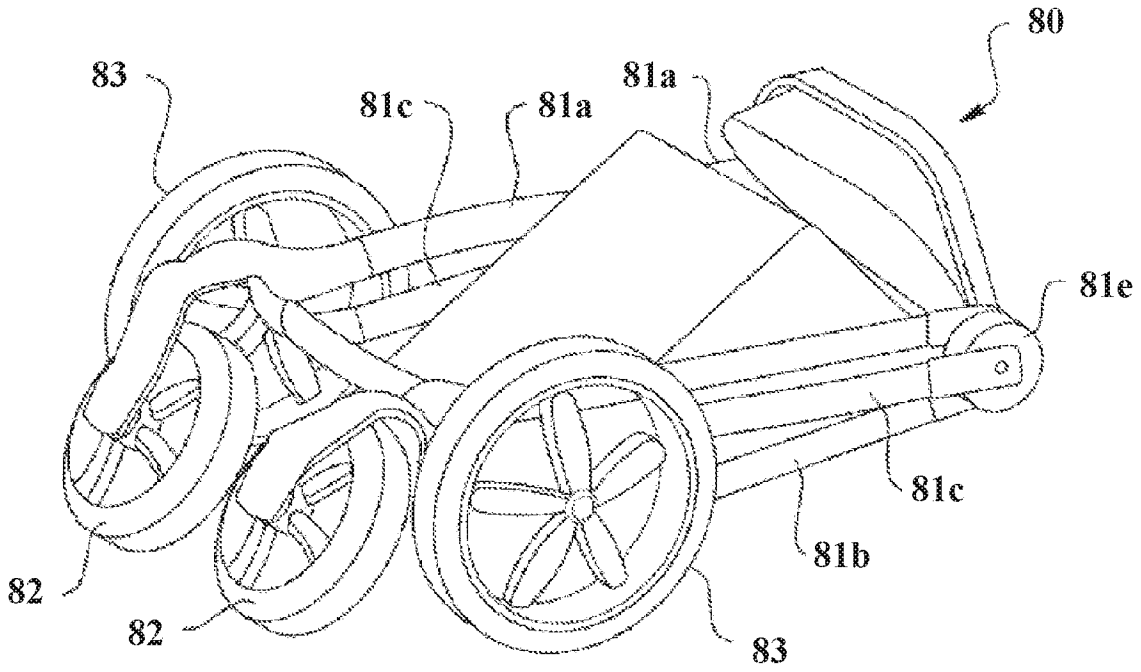

FIGURE 8B

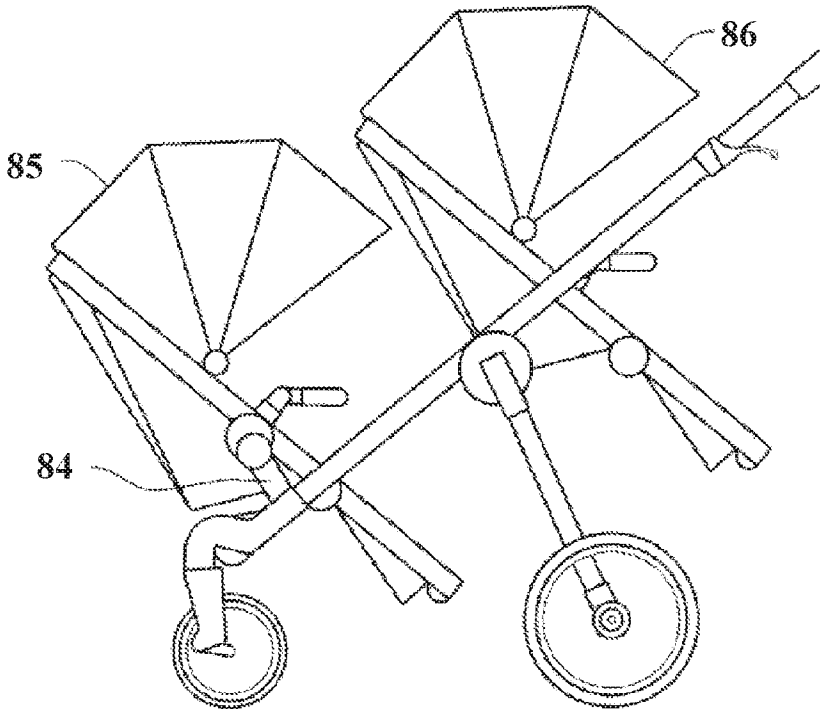

FIGURE 8C

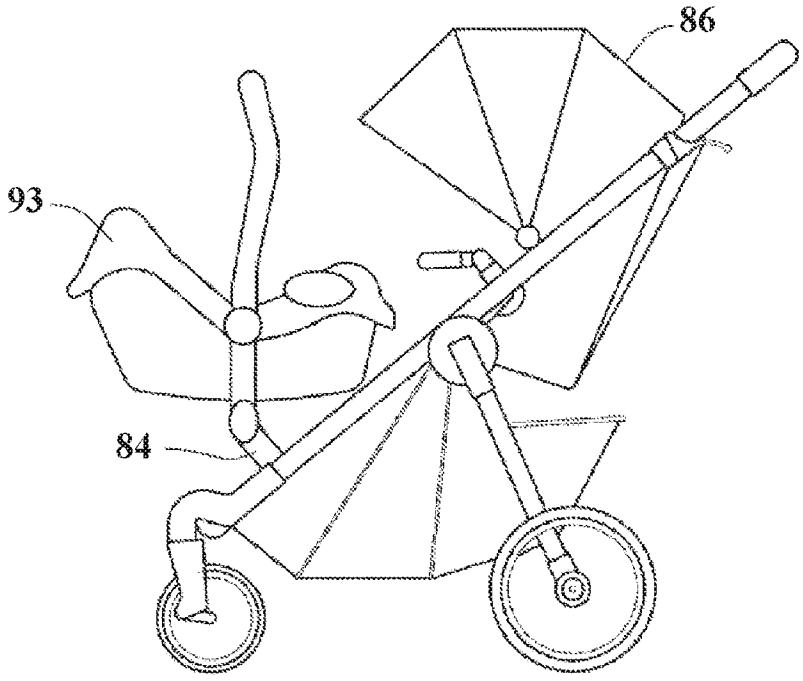

FIGURE 8D

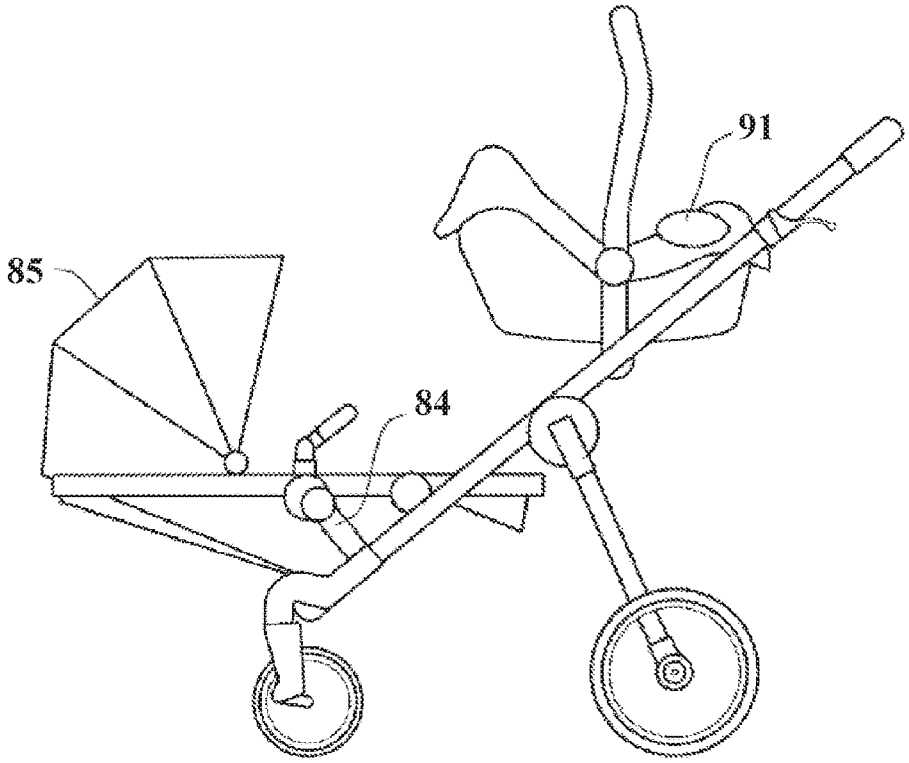

FIGURE 8E

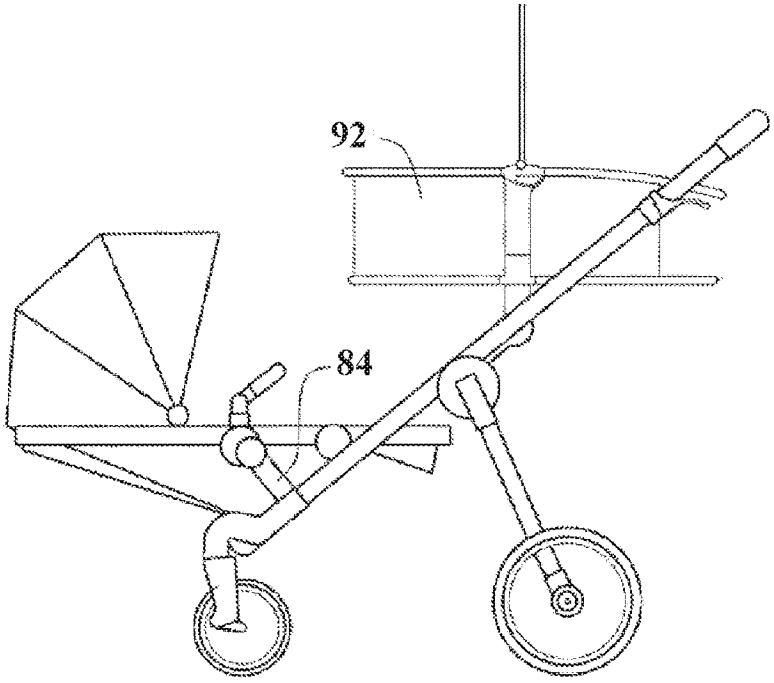

FIGURE 8F

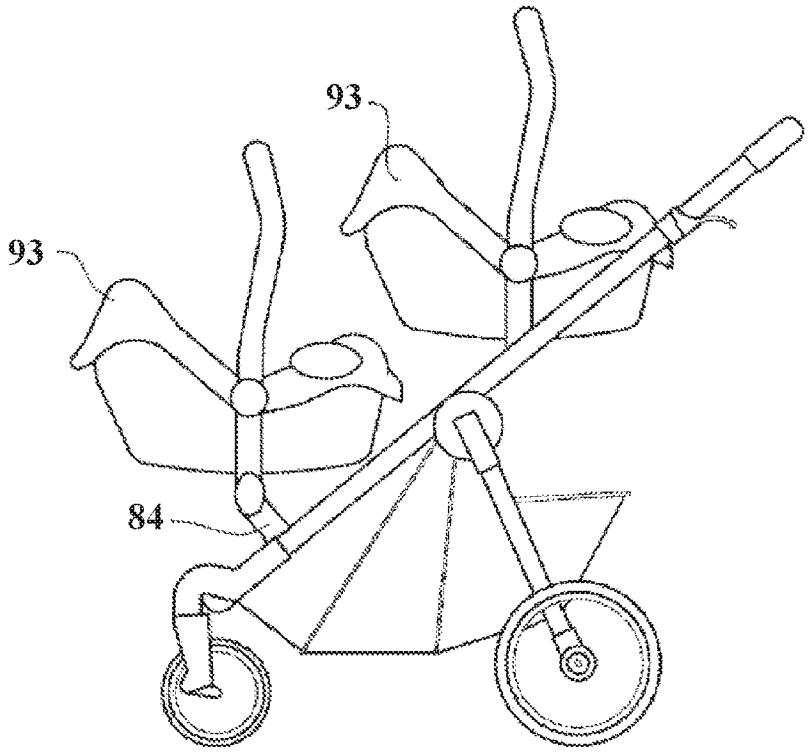

FIGURE 8G

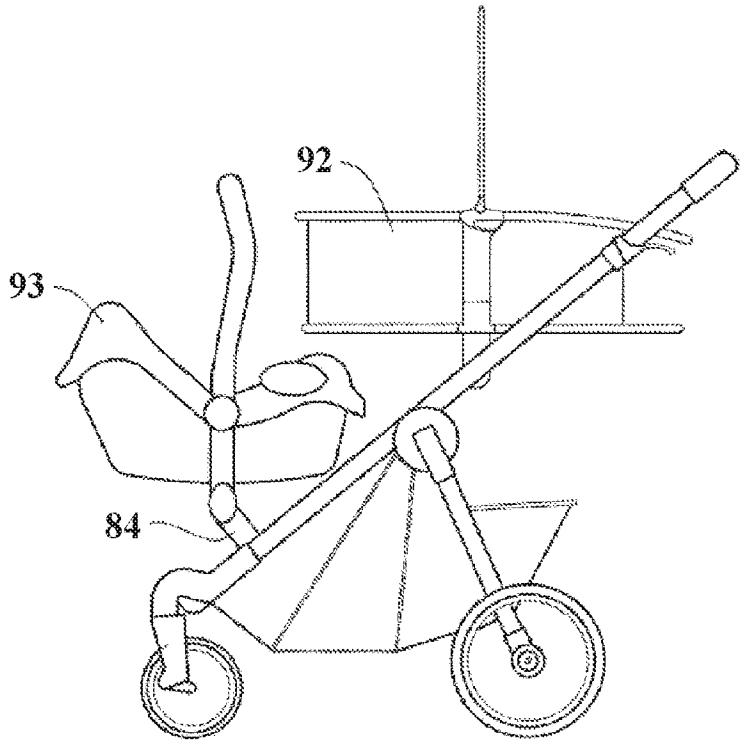

FIGURE 8H

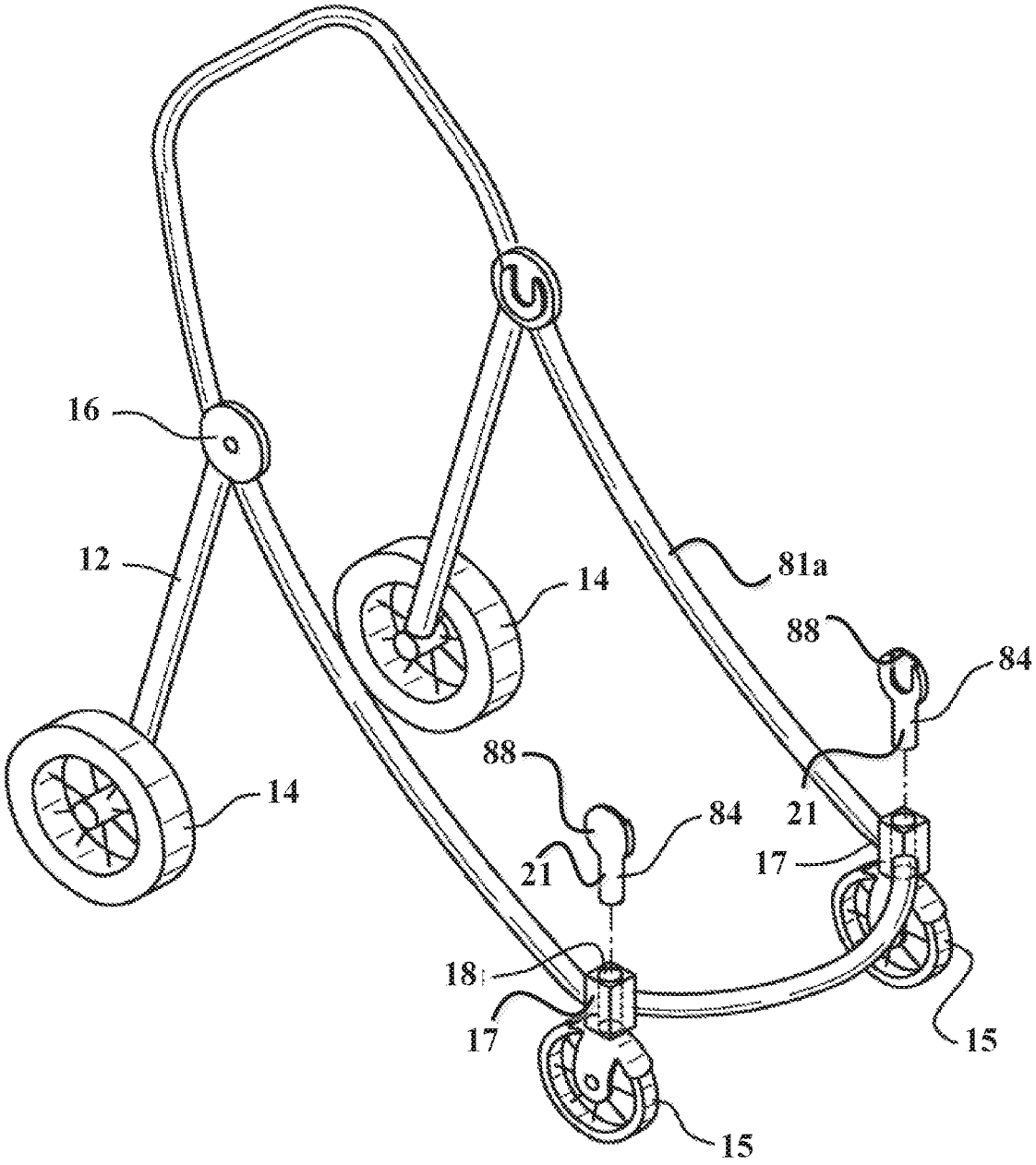

FIGURE 9

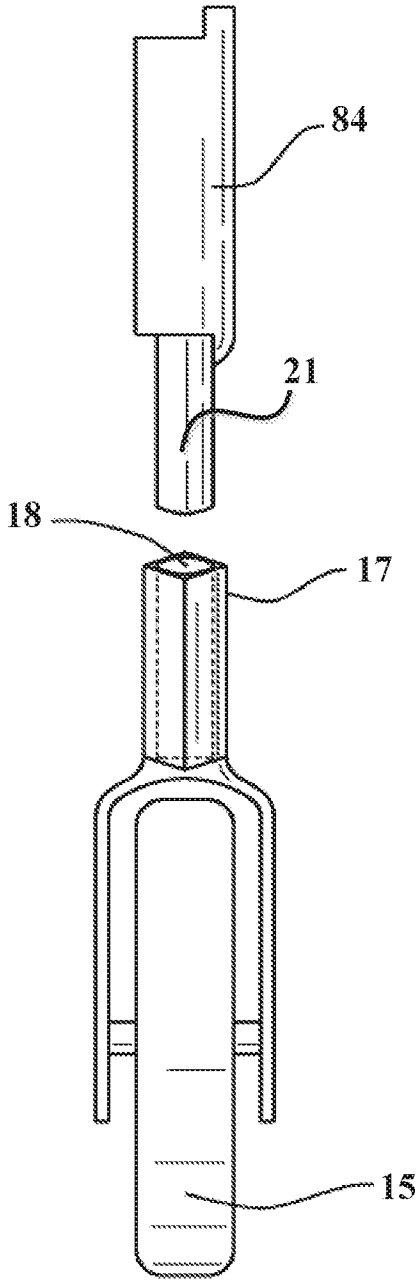

FIGURE 10

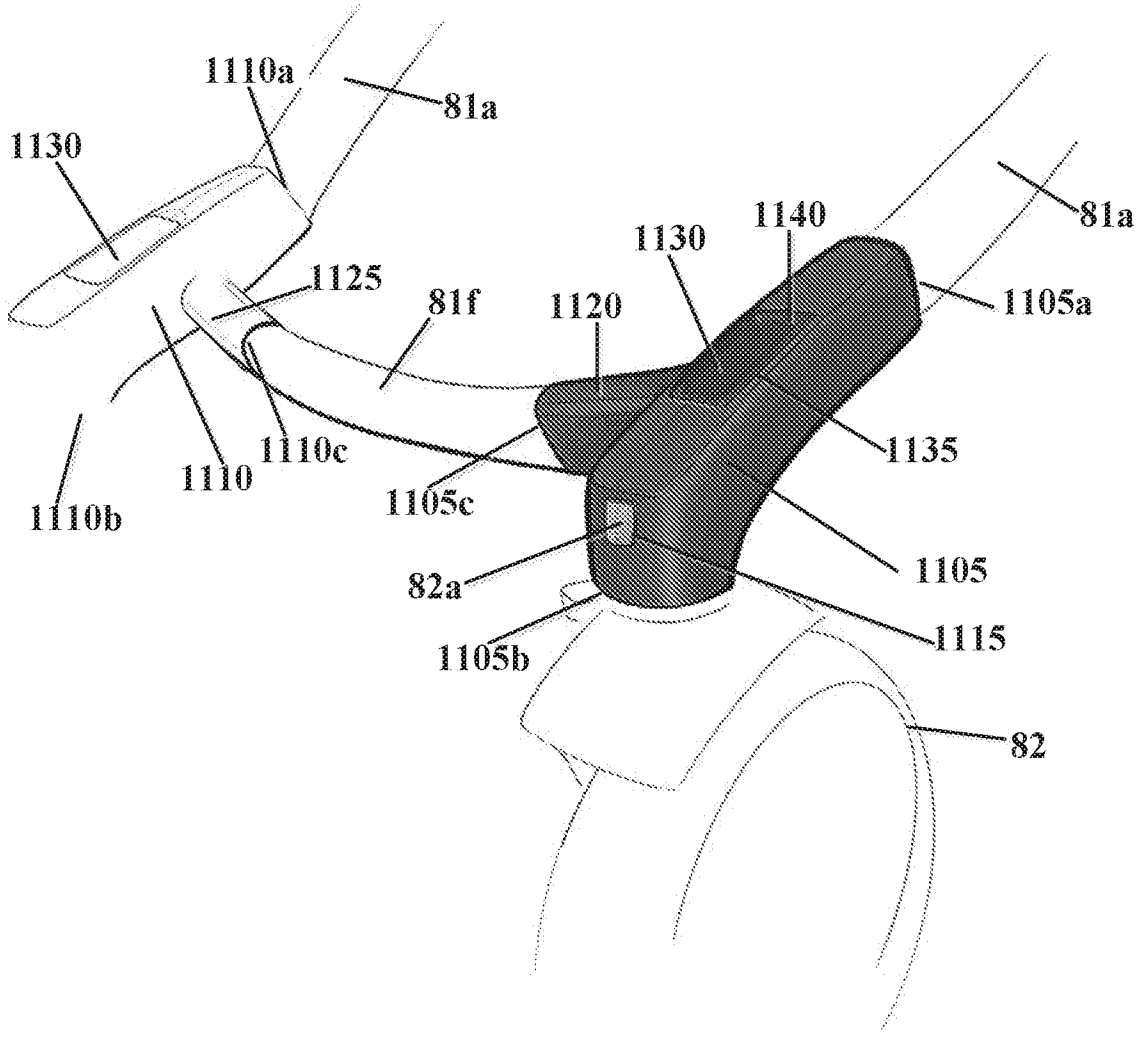
1110a
81a
1130
1125
81f
1120
1130
1140
81a
1105a
1135
1110c
1110
1110b
1105c
82a
1105
1105b
1115
82

FIGURE 11

1105,
1110

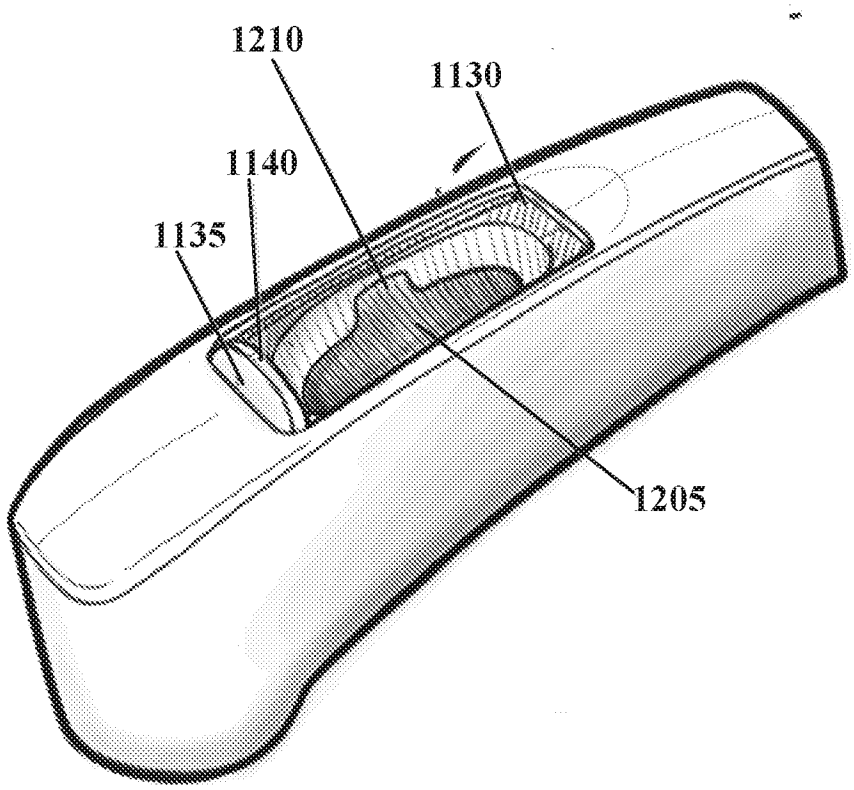

FIGURE 12

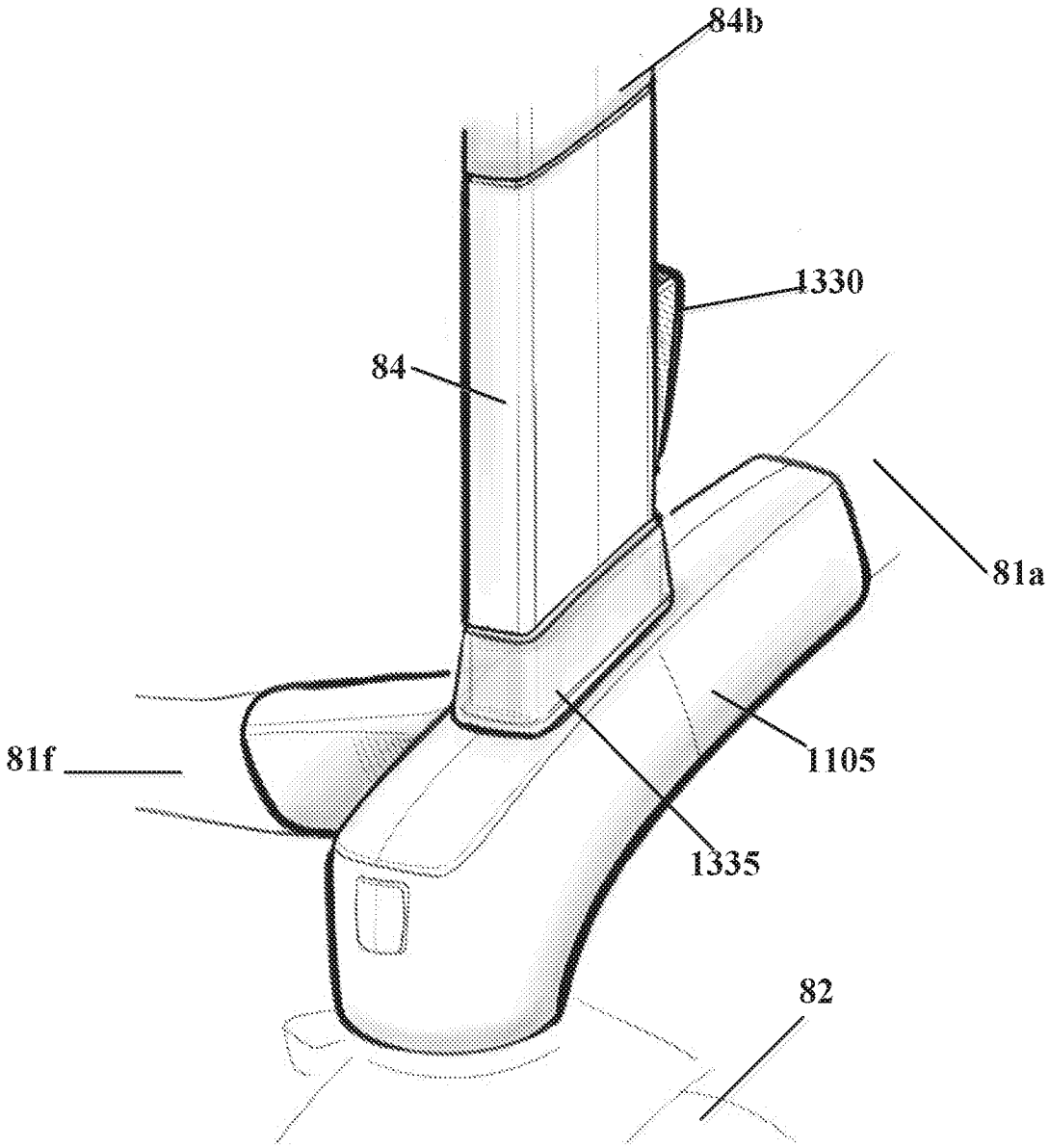

FIGURE 13A

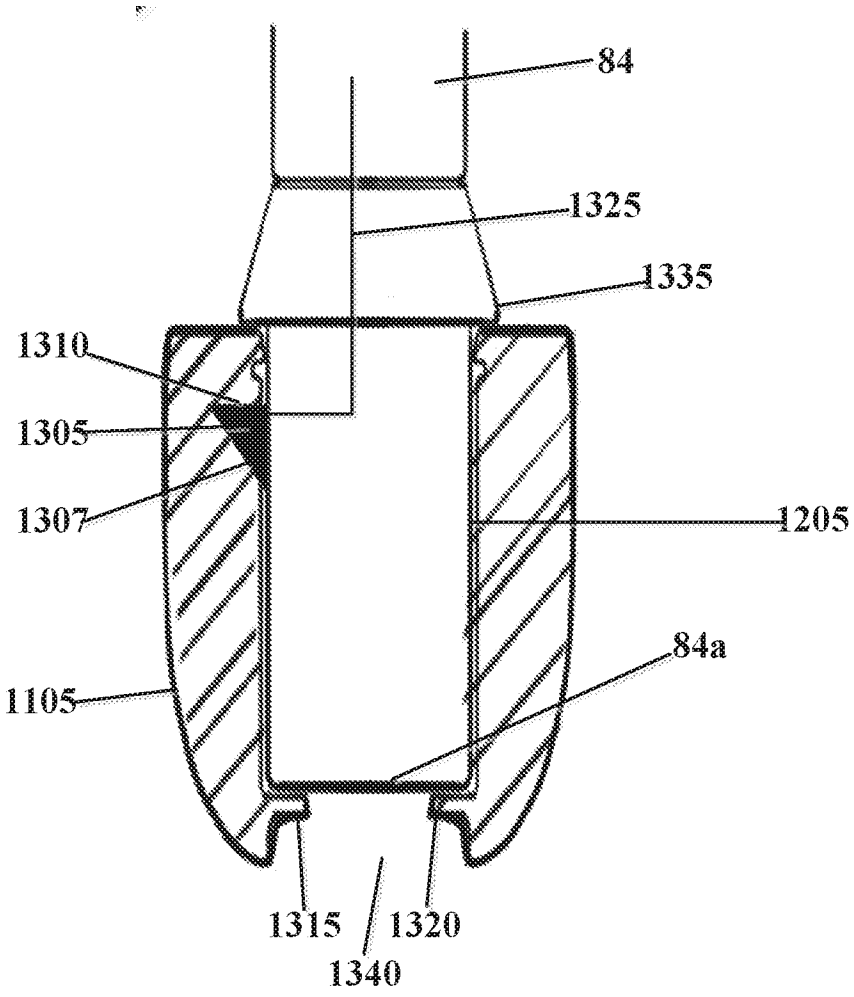

FIGURE 13B

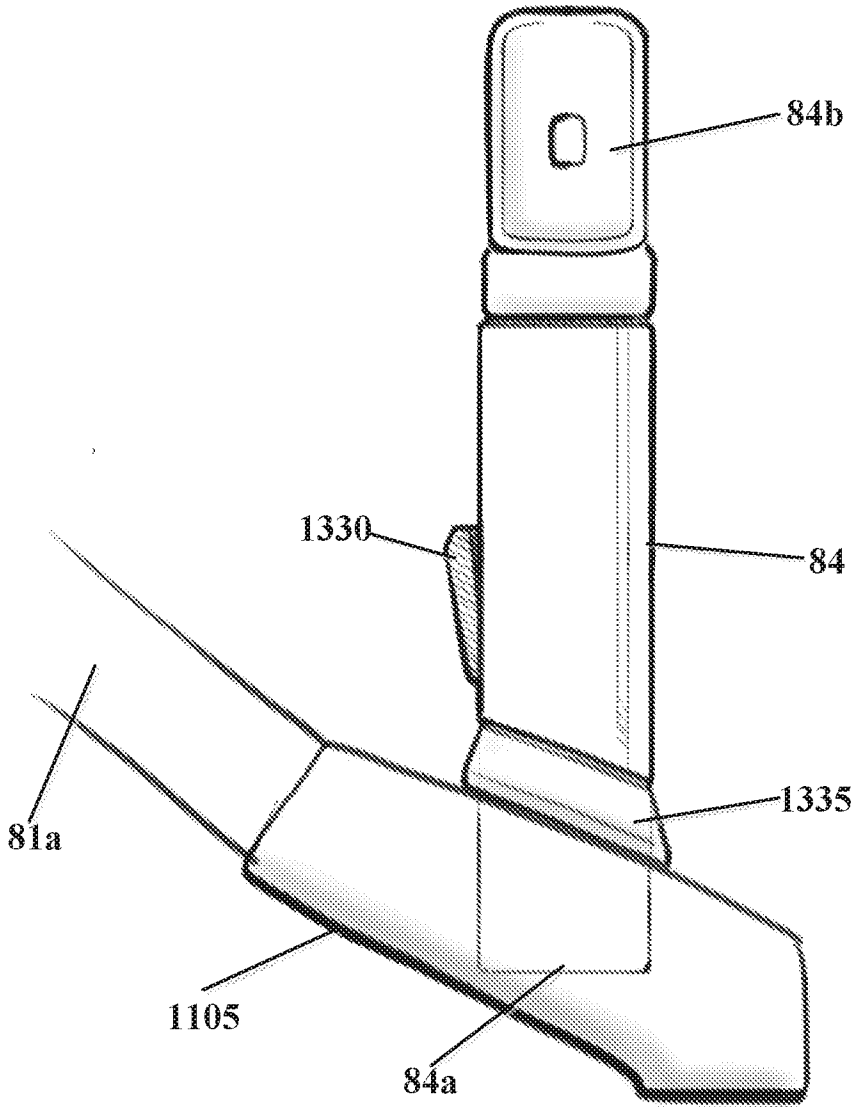

FIGURE 13C

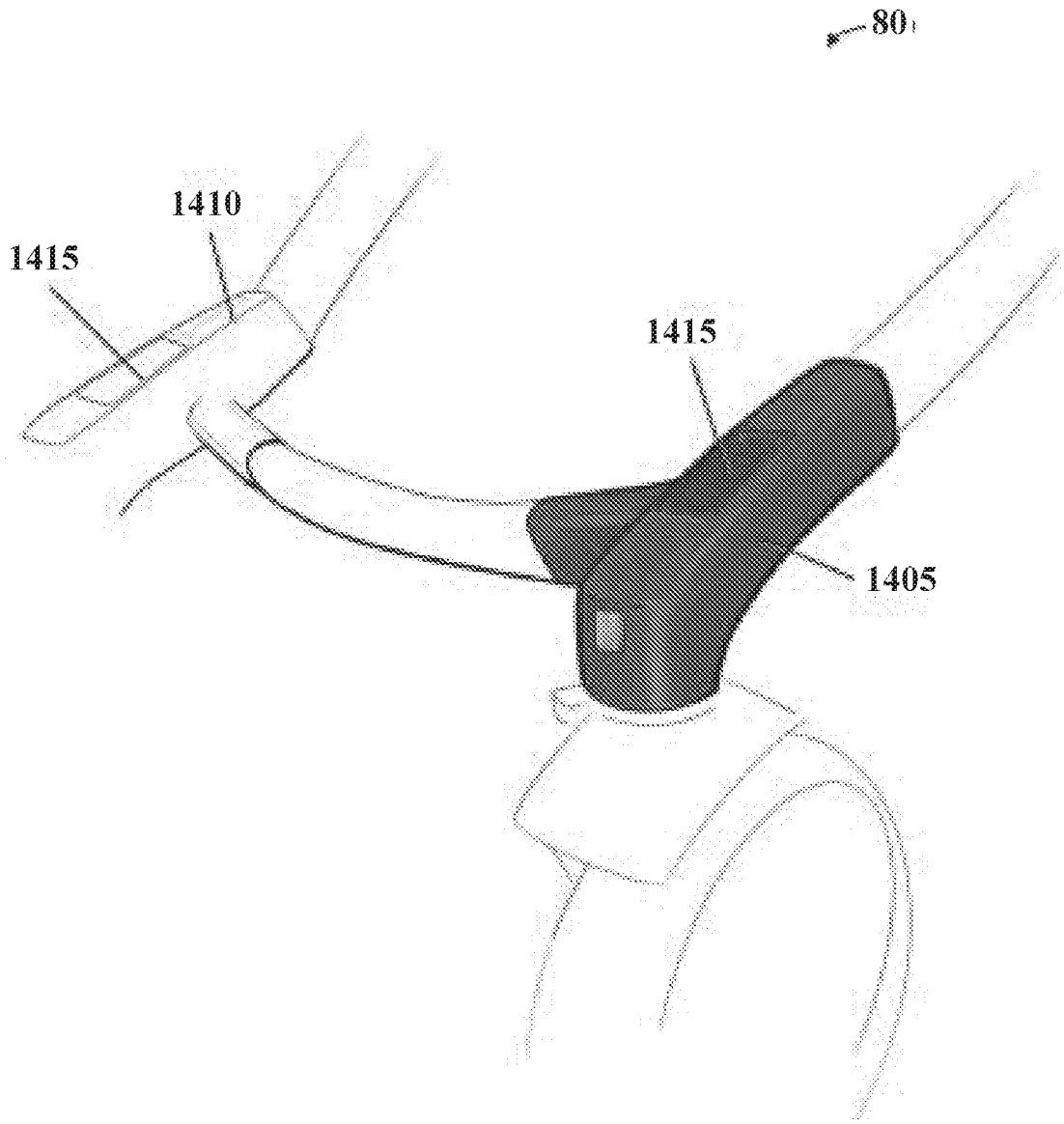

FIGURE 14A

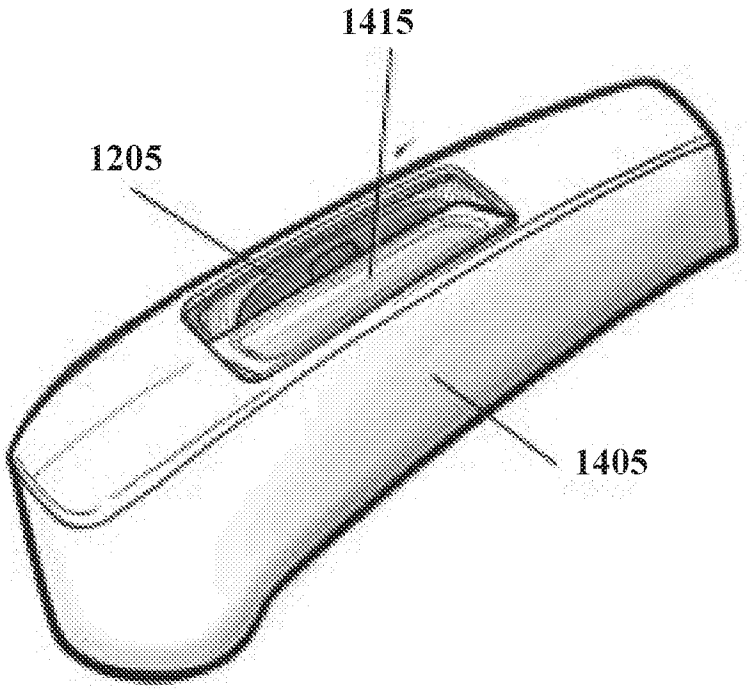

FIGURE 14B

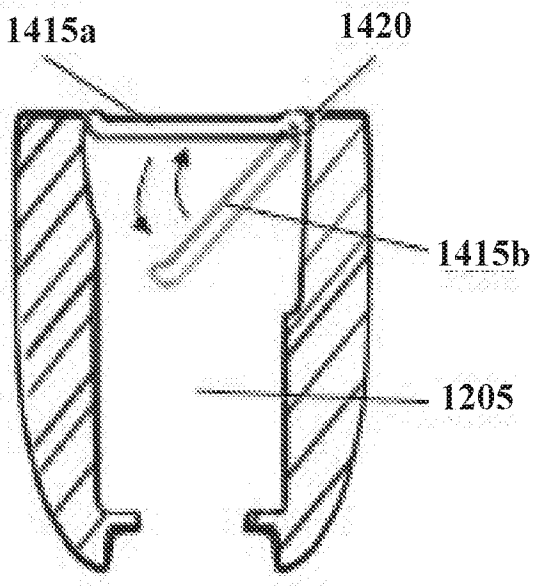

FIGURE 14C

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/225,326 Attorney Docket No. 34757-1526
Filed: August 1, 2016

PARTIES TO THE ASSIGNMENT

Assignor(s):

MARK ZEHFUSS
10804 Cherry Hill Drive
Glen Allen, VA 23059

Assignee:
BABY JOGGER, LLC
8575 Magellan Parkway, Suite 1000
Richmond, VA 23227

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "**REMOVABLE SEAT ATTACHMENT FOR A STROLLER**" (Invention) for which a non-provisional application for United States Letters Patent

☒ was filed on August 1, 2016, and accorded U.S. Application No. 15/225,326 ; or

☐ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for recordation.

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of Sutherland Asbill and Brennan LLP, associated with Customer No. 134811, to insert in the header above and here in

parentheses (U.S. Application No. 15/225,326 , filed August 1, 2016), this application's U.S. application number and filing date, when known.

WHEREAS, ASSIGNEE, a corporation of the State of Virginia, is desirous of acquiring the entire right, title and interest in and to the Invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said Invention and any improvements thereto, said Application and any and all letters patent which may be granted for said Invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all provisional, divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said Invention, application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said Invention, for litigation regarding said letters patent, or for the purpose of protecting title to said Invention or letters patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any

violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said letters patent before or after issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Invention or said application, and testify in any legal proceeding, assist in the preparation of any other patent property relating to the application and the Invention or any improvements made thereto, sign/execute all lawful papers, provide all requested documents, execute and make all rightful oaths and/or declarations in connection with the application and the Invention including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Invention in all countries. These provisions are binding upon our heirs, legal representatives, administrators, and assigns.

CORRESPONDENCE ADDRESS

I hereby direct all correspondence and telephone calls in connection with this application be addressed to the number associated with the customer number listed below, which is:

134811

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/225,326
Filed: August 1, 2016

Attorney Docket No 34757-1526

DECLARATION

As a below named inventor, I hereby declare that this declaration is directed to:

☐ the attached application; or

☒ United States application number 15/225,326 filed on August 1, 2016; or

☐ PCT international application number _____ filed on _____.
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known)

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of inventor: MARK ZEHFUSS

Mark Zehfuss

8/2/16
Date

STATE OF Virginia
ss.
COUNTY OF Henrico

This 2nd day of August, 2016 before me personally came the above-named Mark Zehfuss, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

DARNELL TREVON TAYLOR
NOTARY PUBLIC
COMMONWEALTH OF VIRGINIA

Darnell Trevon Taylor
(Notary Public)

37061234.1

CD Submission Review Results

Internal Worksheet Only - Do Not Scan

Application Number	18448417	Receipt Date	Aug 11, 2023

X	New Application		Response To Notice	Date Of Response

[ ] Jumbo – Large tables are included on the

[X] There are no problems with the CDs in the submission

Items checked below are to be selected in the PALM Pre-Exam CD problem

Omitted Items

	Files on compact disc are unreadable:
	Disc(s) of either set not readable:
	Disc(s) do not contain file names listed:
	Amended CD missing unamended files
	Missing compact discs

Missing Parts

	Disc(s) do not contain file names listed
	Discs contains files that are non-ASCII files:
	Only one copy of the CD, no duplicate:
	Wrong media type, e.g., CD-RW:
	The transmittal letter and specification do not list information:
	Both disc(s) contain unreadable files:
	One disc(s) contain unreadable files:
	Compact disc(s) contain viruses, but are still readable:
	EFS/Paper Submission:
	Table does not maintain data in proper alignment:
	Not proper subject matter for CD's:

Informality

	No statement in transmittal letter that CD's are the same:
	No incorporation by reference statement for the CD's:
	CD's not labeled "Copy 1" and "Copy 2":
	Deficient CD packaging:
	Deficient Labeling on CD's:
	The transmittal letter does not list information:
	The specification does not list information:
	Table less than 51 pages submitted on CD:

File Directory Attachment

	Copy of file directory listing is attached and should be mailed to applicant
	Copy of file directory listing is not attached
	Copy of file directory listing is not attached because it is over one page long

Additional Comments

Internal Worksheet Only - Do Not Scan

SCORE Placeholder Sheet for IFW Content

Application Number: 18448417 Document Date: 08/11/2023

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

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- Drawing

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Form Revision Date: March 1, 2019

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/448,417	08/11/2023		1820	34757-2775	1	1

CONFIRMATION NO. 3414

FILING RECEIPT

134811
Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309

Date Mailed: 08/24/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Mark ZEHFUSS, Glen Allen, VA;

Applicant(s)

Baby Jogger, LLC, Atlanta, GA;

Power of Attorney: The patent practitioners associated with Customer Number 134811

Domestic Priority data as claimed by applicant

This application is a CON of 16/903,292 06/16/2020 PAT 11,731,682
which is a CON of 15/912,901 03/06/2018 PAT 10,730,543
which is a CON of 15/225,326 08/01/2016 PAT 9,944,305
which claims benefit of 62/311,224 03/21/2016
and is a CIP of 14/597,420 01/15/2015 PAT 9,403,550
which is a CON of 14/261,558 04/25/2014 PAT 8,955,869
which is a CON of 12/631,375 12/04/2009 ABN
which claims benefit of 61/119,920 12/04/2008

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 08/22/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/448,417**

Projected Publication Date: 11/30/2023

Non-Publication Request: No

Early Publication Request: No

Title

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/448,417

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	1 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1820

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

TO: NewellPatents@eversheds-sutherland.us,patentdocket@eversheds-sutherland.com,umarbakhsh@eversheds-sutherland.us
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - Correspondence Notification for Customer Number 134811

Thu Aug 24 06:28:40 EDT 2023

Dear Patent Center Customer:

Correspondence Address:

Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta,GEORGIA,30309
UNITED STATES

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Application	Document	Mailroom Date	Attorney Docket No.
18448417	APP.FILE.REC	08/24/2023	34757-2775

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If you have any questions, please contact the Patent Electronic Business Center (EBC) at ebc@uspto.gov or 866-217-9197 Monday – Friday, 6 a.m. to midnight ET.

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PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18448417
Filing Date	2023-08-11
First Named Inventor	Mark ZEHFUSS
Art Unit	OPAP
Examiner Name	TBD
Attorney Docket Number	34757-2775

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6585284	B2	2003-07-01	SWEENEY ET AL	
	2	5417449	A	1995-05-23	SHAMIE	
	3	5653460	A	1997-08-05	FOGARTY	
	4	5794951	A	1998-08-18	CORLEY ET AL.	
	5	D360392		1995-07-18	LEWANDOWSKI	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18448417
	Filing Date	2023-08-11
	First Named Inventor	Mark ZEHFUSS
	Art Unit	OPAP
	Examiner Name	TBD
	Attorney Docket Number	34757-2775

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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	1		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18448417
	Filing Date	2023-08-11
	First Named Inventor	Mark ZEHFUSS
	Art Unit	OPAP
	Examiner Name	TBD
	Attorney Docket Number	34757-2775

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Umar Bakhsh/	Date (YYYY-MM-DD)	2023-10-27
Name/Print	Umar Bakhsh	Registration Number	67307

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/448,417	**10/27/2023 01:27:05 PM ET**	**34757-2775**

Title of Invention

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	3414	FILED BY	Umar Bakhsh
PATENT CENTER #	63099012	FILING DATE	08/11/2023
CUSTOMER #	134811	FIRST NAMED INVENTOR	Mark ZEHFUSS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
updated_IDS.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	598 KB

Warning: The PDF file contains multiple layers and must be flattened prior to submission. Documents submitted with multiple layers will be flattened by the USPTO when converted to an image. Layers marked as "invisible" will be lost during conversion.

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
updated_IDS.pdf	91AC9816456F77A12341413BE04912B365F97C14F555D6B1581

D462BBF89D944E272D2C9F4083F064C7ED58A26327E4894955
83A20AAE38B167ACCDBE4E68453

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/448,417	**11/07/2023 06:34:00 PM Z ET**	**34757-2775**

Title of Invention

REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	3414	FILED BY	Loretta Garcia
PATENT CENTER #	63182222	FILING DATE	08/11/2023
CUSTOMER #	134811	FIRST NAMED INVENTOR	Mark ZEHFUSS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Umar Bakhsh

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
34757-2775 - Suppl. IDS.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	598 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
34757-2775 - Suppl. IDS.pdf	B977FE578B95286D4E9B13D777C3014BEFAB428EDA3536B4659125A35178AABD4DC55ACFEE1739E74B07E945BF0B7427D68F3550E3F9F4CF6D8EB68741A90EF7

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New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18448417
Filing Date	2023-08-11
First Named Inventor	Mark ZEHFUSS
Art Unit	OPAP
Examiner Name	TBD
Attorney Docket Number	34757-2775

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8371606	B2	2013-02-12	Gower et al.	
	2	9004524	B1	2015-04-14	Gower et al.	
	3	9643640	B2	2017-05-09	Gower et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18448417
	Filing Date	2023-08-11
	First Named Inventor	Mark ZEHFUSS
	Art Unit	OPAP
	Examiner Name	TBD
	Attorney Docket Number	34757-2775

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NON-PATENT LITERATURE DOCUMENTS			Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐
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EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18448417
	Filing Date	2023-08-11
	First Named Inventor	Mark ZEHFUSS
	Art Unit	OPAP
	Examiner Name	TBD
	Attorney Docket Number	34757-2775

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Umar Bakhsh/	Date (YYYY-MM-DD)	2023-11-07
Name/Print	Umar Bakhsh	Registration Number	67307

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/448,417	08/11/2023	Mark ZEHFUSS	34757-2775

CONFIRMATION NO. 3414

134811
Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309

PUBLICATION NOTICE

OC000000065163961

Date Mailed: 11/30/2023

Title:REMOVABLE SEAT ATTACHMENT FOR A STROLLER

Publication No.US-2023-0382447-A1
Publication Date:11/30/2023

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

TO: patentdocket@eversheds-sutherland.com,NewellPatents@eversheds-sutherland.us,umarbakhsh@eversheds-sutherland.us
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - Correspondence Notification for Customer Number 134811

Thu Nov 30 05:41:30 EST 2023

Dear Patent Center Customer:

Correspondence Address:

Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta,GEORGIA,30309
UNITED STATES

This is a courtesy notification regarding the following USPTO patent application(s) associated with your Customer Number, 134811, that have new outgoing correspondence. This correspondence is now available for viewing in Patent Center.

The official date of notification of the outgoing correspondence will be indicated on the form (e.g., PTOL-90) accompanying the correspondence.

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The list of documents shown below are provided as a courtesy and is not part of the official file wrapper. The content of the images shown in the Image File Wrapper is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
18448417	NTC.PUB	11/30/2023	34757-2775

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If you have any questions, please contact the Patent Electronic Business Center (EBC) at ebc@uspto.gov or 866-217-9197 Monday – Friday, 6 a.m. to midnight ET.

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Sincerely,

The Patent Center Team

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/448,417	08/11/2023	Mark ZEHFUSS	34757-2775	3414

134811 7590 02/29/2024

Eversheds Sutherland (US) LLP/NWL
999 Peachtree Street
Suite 2300
Atlanta, GA 30309

EXAMINER	
DOLAK, JAMES M	

ART UNIT	PAPER NUMBER
3618	

NOTIFICATION DATE	DELIVERY MODE
02/29/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

NewellPatents@eversheds-sutherland.us
patentdocket@eversheds-sutherland.com
umarbakhsh@eversheds-sutherland.us

Office Action Summary	Application No. 18/448,417	Applicant(s) ZEHFUSS, Mark	
	Examiner JAMES M DOLAK	Art Unit 3618	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 8/11/2023.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 8/11/2023 is/are: a)☐ accepted or b)☑ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 10/27/2023 and 11/07/2023 were filed in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "a first seat attachment adapter spaced from and coupled to the first seat attachment housing by a first attachment frame member; and a second seat attachment adapter spaced from and coupled to the second seat attachment housing by a second attachment frame member" (Claim 1 – only one attachment frame member 24 is portrayed in the Figures) and similarly all of the elements listed below must be shown and labeled or the feature(s) canceled from the claim(s) (No new matter should be entered).

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet,

and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. **Claims 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Cheng (US 7,475,900 B2).**

[Claim 1] Regarding Claim 1, Cheng discloses: A stroller (See, e.g., Fig. 4-8), comprising:

a stroller frame (See, e.g., Fig. 4-8, 3+4+5+10+etc.);

comprising a handle portion (See, e.g., Fig. 4-8, 10) and a front end portion (See, e.g., Fig. 4-8, 31) ; a plurality of wheels (See, e.g., Fig. 4-8, 33+34) comprising a plurality of back wheels (See, e.g., Fig. 4-8, 34); a first seat (See, e.g., Fig. 4-8, 72) coupled to the stroller frame at a first vertical position of the stroller frame (See, e.g., Fig. 4-8), wherein the first seat is disposed closer to the handle portion than the front

end portion of the stroller frame (See, e.g., Fig. 4-8); a first seat attachment housing (See, e.g., Fig. 4-8, 410) coupled to the stroller frame at a second vertical position of the stroller frame that is below the first vertical position (See, e.g., Fig. 4-8), wherein a first front wheel and a second front wheel extend from the front end of the stroller (See, e.g., Fig. 4-8, 33); a second seat attachment housing (See, e.g., Fig. 4-8, 410) coupled to the stroller frame at a third vertical position of the stroller frame that is below the first vertical position (See, e.g., Fig. 4-8), wherein the third vertical position is closer to the front end portion than the handle portion (See, e.g., Fig. 4-8); a first seat attachment adapter (See, e.g., Fig. 4-8, 71) spaced from and coupled to the first seat attachment housing by a first attachment frame member (See, e.g., Fig. 4-8, 71); and a second seat attachment adapter (See, e.g., Fig. 4-8, 71) spaced from and coupled to the second seat attachment housing by a second attachment frame member (See, e.g., Fig. 4-8, 71); wherein the first seat and the second seat, when connected to the frame, are arranged in an inline descending configuration along the stroller frame (See, e.g., Fig. 4-8).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure, and can be found on the attached Notice of References Cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES M DOLAK whose telephone number is (571)270-7757. The examiner can normally be reached on 9-530 EST Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J ALLEN SHRIVER can be reached on 303-297-4337. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES M DOLAK/
Primary Examiner, Art Unit 3618.

Notice of References Cited	Application/Control No. 18/448,417	Applicant(s)/Patent Under Reexamination ZEHFUSS, Mark	
	Examiner JAMES M DOLAK	Art Unit 3618	Page 1 of 1

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NON-PATENT DOCUMENTS

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/448,417	ZEHFUSS, Mark
	Examiner	Art Unit
	JAMES M DOLAK	3618

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant			☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE								
Final	Original	02/24/2024								
	1	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/448,417	ZEHFUSS, Mark
	Examiner	Art Unit
	JAMES M DOLAK	3618

CPC - Searched*		
Symbol	Date	Examiner
B62B7/008,00,006,14,142,145	02/24/2024	JMD
B62B9/12,28,102	02/24/2024	JMD

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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Search Notes		
Search Notes	Date	Examiner
Inventor & Assignee Search	02/24/2024	JMD
Text search	02/24/2024	JMD

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/JAMES M DOLAK/ Primary Examiner.Art Unit 3618	/JAMES M DOLAK/ Primary Examiner, Art Unit 3618

PE2E SEARCH - Search History (Prior Art)

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L77	1873	L75 and L76	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/02/13 05:32 PM
L78	2516	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/13 05:35 PM
L79	35	L78 and L77	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/02/13 05:36 PM
L80	1080	L78 and L76	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/02/13 05:36 PM
L81	1	("20050082897").PN. OR ("8246020").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/13 05:44 PM
L82	9	("20070085303" | "20080303232" | "20090033066" | "3784252" | "5257799" | "5794951" | "6086086" | "7367581" | "7377537").PN. OR ("8205906").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/13 05:52 PM
L83	31	("20010002745" | "20030067138" | "20050099025" | "20060237932" | "20070063474" | "20080067776" | "20090026817" | "2450051" | "4754987" | "5076599" | "5267744" | "5454577" | "5474316" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/13 05:58 PM

		"5577746" | "5921571" | "5947497" | "5979921" | "6196572" | "6663126" | "6764087" | "6767028" | "6929274" | "6976697" | "7052026" | "7168761" | "7172206" | "7354058" | "7431324" | "7445222" | "7547029").PN. OR ("8262103").URPN.					
L84	22	("20080211206" | "20090014985" | "20090078482" | "3605929" | "4362311" | "4861058" | "5020624" | "5421598" | "5921338" | "6135222" | "6220382" | "6378642" | "6439331" | "6659488" | "6793248" | "7044249" | "7080847" | "7364182" | "7571926" | "7591479" | "7832755").PN. OR ("8336904").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/13 06:03 PM
L85	1	("8251382").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/14 03:15 PM
L86	34	("20080150247" | "20080179848" | "20080224451" | "20080303232" | "20090102162" | "20090121455" | "20090256323" | "20100001492" | "20100109272" | "20100127480" | "4645371" | "5028061" | "5257799" | "5364137" | "5676386" | "5772279" | "5865447" | "5947555" | "6286844" | "6446990" | "6513827" | "6991248" | "7032922" | "7296820" | "7314247" | "7367581" | "7377537" | "7584985" | "7658399" | "7681894" | "7686323" | "7694996" | "7712765" | "7753398").PN. OR ("8251382").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/14 03:19 PM
L87	32	("4836573" | "4892327" | "5028061" | "5069474" | "5257799" | "5460430" | "5887935" | "5921574" | "6099022" | "6523853" | "6594840" | "6739649"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/14 05:50 PM

		| "7281732").PN. OR ("7377537").URPN.					
L88	57	("20020093177" | "20020109320" | "20030075903" | "20030080536" | "20030111825" | "20040032103" | "20040094922" | "20040124610" | "20040124611" | "20040245747" | "20050093259" | "20050127640" | "20050242535" | "20050242549" | "20060119079" | "20070001429" | "20070108710" | "20070194545" | "20080157491" | "20090127827" | "5333893" | "5676386" | "5772279" | "5794951" | "5833261" | "5947555" | "6086087" | "6209892" | "6286844" | "6331032" | "6398233" | "6409205" | "6513827" | "6530591" | "6626452" | "6641164" | "6702316" | "6793280" | "6802514" | "6863286" | "6893031" | "6923467" | "6983986" | "6986518" | "7017921" | "7032922" | "7070197" | "7370913" | "7377537" | "7419181" | "7445229" | "7475900" | "7513512" | "7600775" | "7614641" | "7938435" | "D430076").PN. OR ("8328208").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/02/14 05:52 PM
L89	3003	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/16 03:09 PM
L90	37602504	@ad<="20081204"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/07/16 03:09 PM
L91	1876	L89 and L90	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/07/16 03:09 PM
L92	2544	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/16 03:11 PM
L93	1082	L92 and L90	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2013/07/16 03:11 PM

L94	51	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20100140902-$ or US-20080303232-$ or US-20070085303-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$).did. or (US-3000645-$ or US-2453631-$).did.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/23 03:10 PM
L95	26	("20060131841"|"20070069505"|"20070210560"|"20080012268"|"20080224450"|"20080224451"|"20090160162"|"20100171289"|"201002011	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/23 03:16 PM

		03"|"5947555"|"6045145"|"6270111"|"6331032"|"6715783"|"7032922"|"7367581"|"7475900"|"7677585"|"7753398"|"7775532"|"7798500"|"7938435"|"8061732"|"8128119"|"8157273"|"8205906").PN.					
L96	1	("8240700").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2013/07/23 03:17 PM
L97	231	("1598778" | "1709527" | "20050012306" | "20050242549" | "20060001226" | "20060131840" | "20060131841" | "20060152059" | "20060157945" | "20060219374" | "20060261576" | "20090127827" | "20090127828" | "20090243260" | "20100038886" | "2616719" | "2783053" | "3112042" | "3168330" | "3227484" | "3390893" | "3459435" | "3504926" | "3556546" | "3561787" | "3653681" | "3799567" | "3989295" | "4007947" | "4023825" | "4046401" | "4111454" | "4126331" | "4191397" | "4232897" | "4248443" | "4317581" | "4322093" | "4335900" | "4362315" | "4365819" | "4378946" | "4412688" | "4415180" | "4513974" | "4542915" | "4564212" | "4591176" | "4602395" | "4606550" | "4610460" | "4632420" | "4632421" | "4660850" | "4706986" | "4733882" | "4741056" | "4741551" | "4763911" | "4763919" | "4768795" | "4770437" | "4805928" | "4807928" | "4817982" | "4819958" | "4832361" | "4856809" | "4886289" | "4892327" | "4906017" | "4907818" | "4924725" | "4930697" | "4953887" | "4968092" | "5028061" | "5056805" | "5074575"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/23 03:17 PM

		"5087066" | "5110150" | "5143398" | "5181735" | "5184835" | "5201535" | "5205577" | "5205579" | "5238292" | "5244228" | "5246272" | "5257799" | "5362089" | "5388852" | "5398951" | "5417449" | "5417450" | "5427402" | "5431478" | "5437493" | "5441163" | "5454584" | "5460395" | "5460398" | "5472224" | "5478102" | "5489138" | "5511259" | "5511441" | "5524503" | "5527090" | "5605409" | "5622377" | "5645293" | "5649737" | "5664795" | "5669623" | "5669624" | "5669625" | "5676386" | "5718444").PN. OR ("5722682" | "5727798" | "5741021" | "5752738" | "5765855" | "5765856" | "5769447" | "5772235" | "5775718" | "5795091" | "5810432" | "5845666" | "5845924" | "5876057" | "5887935" | "5921571" | "5934757" | "5938229" | "5947555" | "5979928" | "5984332" | "5988669" | "5988670" | "6068284" | "6070890" | "6099022" | "6102431" | "6116624" | "6129373" | "6139046" | "6152476" | "6155740" | "6189914" | "6193263" | "6209829" | "6273451" | "6286844" | "6296004" | "6299194" | "6302613" | "6339862" | "6368006" | "6398233" | "6409205" | "6412809" | "6443261" | "6443479" | "6446990" | "6467739" | "6478327" | "6557871" | "6557885" | "6572134" | "6581957" | "6666473" | "6851700" | "7017921" | "7017937" | "7032922" | "7044497" | "7185909" | "7188858" | "7281732" | "7338122" | "7445229" | "7445230" | "7621431" | "7686322" | "7871100" | "D308656" | "D310645" | "D317280" | "D320370"					

		| "D337257" | "D352017" | "D357439" | "D357440" | "D412142" | "D415075" | "D419113" | "D421940" | "D427822" | "D431212" | "D431213" | "D452192" | "D470803" | "D473663" | "D480195" | "D494511" | "D521422" | "D545074" | "D558648" | "D566629" | "D593272" | "D604151" | "D617255" | "D630934" | "D636300").PN. OR ("8240700").URPN.					
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L99	236	("1598778" | "1709527" | "20050012306" | "20050242549" | "20060001226" | "20060131840" | "20060131841" | "20060152059" | "20060157945" | "20060219374" | "20060261576" | "20090127827" | "20090127828" | "20090243260" | "20100171289" | "2616719" | "2783053" | "3112042" | "3168330" | "3227484" | "3390893" | "3459435" | "3504926" | "3556546" | "3561787" | "3653681" | "3784252" | "3799567" | "3989295" | "4007947" | "4023825" | "4046401" | "4111454" | "4126331" | "4191397" | "4232897" | "4248443" | "4317581" | "4322093" | "4335900" | "4362315" | "4365819" | "4378946" | "4412688" | "4415180" | "4513974" | "4542915" | "4564212" | "4591176" | "4602395" | "4606550" | "4610460" | "4632420" | "4632421" | "4660850" | "4706986" | "4733882" | "4741056" | "4741551" | "4763911" | "4763919" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/23 04:56 PM

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L100	17	("20060001226"|"6099022"|"5121940"|"6502901"|"6530591"|"6641164"|"20060157945"|"6193263"|"6626452"|"20060152059"|"4365819"|"6209829"|"6398233"|"6877761"|"7070197"|"20060131841"|"7320471").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/23 05:08 PM
L101	2	("4953667"|"4257729").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:00 PM
L102	1	("6168174").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:04 PM
L103	1	("6209892").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:04 PM
L104	1	("6296260").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:18 PM
L105	1	("6203053").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:19 PM
L106	1	("4681330").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:20 PM
L107	1	("5685552").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:21 PM
L108	1	("5984326").PN.	(US-PGPUB; USPAT;	OR	ON	ON	2013/07/24

			USOCR)				01:21 PM
L109	1	("6168174").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:22 PM
L110	1	("6209892").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:22 PM
L111	6	("5653460" | "6045145" | "6378892").PN. OR ("7320471").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:25 PM
L112	23	("4657269" | "4836573" | "5184835" | "5338096" | "5664795" | "5911432").PN. OR ("6045145").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 01:26 PM
L113	53	("20030192925" | "20050072821" | "2907372" | "3079162" | "3248125" | "3627342" | "3961803" | "3967833" | "4032173" | "4113306" | "4181356" | "4220351" | "4231587" | "4239259" | "4256325" | "4412688" | "4620711" | "4681340" | "4762256" | "4844504" | "4892327" | "5230523" | "5333769" | "5398951" | "5411729" | "5431478" | "5468009" | "5478096" | "5662339" | "5806924" | "5829826" | "5964470" | "5987665" | "6045145" | "6231056" | "6250654" | "6375213" | "6811178" | "6910696" | "D254610" | "D345720" | "D358058" | "D365925" | "D402235" | "D508443").PN. OR ("7497461").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 04:08 PM
L114	22	("3738600" | "3876046" | "4570956" | "4750783" | "5188389" | "5234224" | "5499831" | "5536027" | "5562300" | "5876046" | "6189914" | "6193263" | "6209892" | "6290290" | "6302412" | "6398233" | "6550802" | "D397316" | "D481975" | "D486427" | "D497844").PN. OR ("D508443").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 04:13 PM
L115	26	("4790548" | "5060967" | "5366274" | "5727848" | "5975225" | "6203054"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 06:30 PM

		| "6513827" | "7234722").PN. OR ("7367581").URPN.					
L116	23	("4657269" | "4836573" | "5184835" | "5338096" | "5664795" | "5911432").PN. OR ("6045145").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/24 06:39 PM
L117	55	("4736959" | "4743063" | "4872692" | "4878680" | "5201535" | "5676386").PN. OR ("5947555").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 10:09 AM
L118	25	("20010040357" | "20020093177" | "20030075903" | "4921261" | "4989888" | "5676386" | "5794951" | "5947555" | "6189914" | "6209892" | "6241274" | "6286844" | "6302412" | "6331032" | "6398233" | "6409205" | "6641164" | "6702316").PN. OR ("6923467").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 11:03 AM
L119	25	("4570956" | "4836573" | "4921261" | "4946180" | "5121940" | "5188380" | "5676386" | "5772279" | "5947555" | "6070890" | "6155592" | "6286844" | "6398233" | "6409205" | "6478327" | "D345720").PN. OR ("6641164").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 11:28 AM
L120	2	("3000645").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:26 PM
L121	9	("3000645").URPN.	(USPAT)	OR	ON	ON	2013/07/25 03:27 PM
L122	29	("0122730" | "0937625" | "1212221" | "20070114738" | "2836224" | "3000645" | "4288124" | "4779883" | "4805938" | "4863217" | "5312122" | "5622375" | "5653460" | "5704627" | "5848797" | "6378892" | "6530591" | "6746079" | "6851693" | "7226059" | "7481439" | "7597332" | "7677585").PN. OR ("8128103").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:29 PM
L123	1	("8029007").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2013/07/25 03:30 PM

L124	28	("20010033069" | "20020135142" | "20030025304" | "20030127835" | "20040164510" | "20070090619" | "5463853" | "5622375" | "5625923" | "5725238" | "5882022" | "5909887" | "5967190" | "6098492" | "6422634" | "6447001" | "6453921" | "6530591" | "6540238" | "6557878" | "6698772" | "6827356" | "6893028" | "7159829" | "7290776").PN. OR ("8029007").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:31 PM
L125	1	("6851693").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:34 PM
L126	14	("3887208" | "5064209" | "5067738" | "5269548" | "5421597" | "5470088" | "5513868" | "5785335").PN. OR ("6851693").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:35 PM
L127	6	("2001/0033069").URPN.	(USPAT)	OR	ON	ON	2013/07/25 03:36 PM
L128	28	("1876963" | "20010033069" | "20020089136" | "20040075230" | "20040173989" | "20060261575" | "20100201089" | "2859975" | "3069182" | "4190261" | "4239248" | "4323258" | "4336952" | "4359231" | "5624128" | "5931244" | "6203053" | "6485039" | "6517092" | "6572130" | "6626446" | "7073822" | "7377527" | "7549655" | "7699325").PN. OR ("8146926").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:37 PM
L129	1	("7249779").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:38 PM
L130	57	("1218943" | "1347384" | "1408729" | "1560288" | "20010035626" | "20030151225" | "2305719" | "2435733" | "2468933" | "2798727" | "3314494" | "3738700" | "3954283" | "4015297" | "4825484" | "4958842" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 03:38 PM

		"5125674" | "5190306" | "5558357" | "5562300" | "5590896" | "5692760" | "5709400" | "5820146" | "5884922" | "5975551" | "6164666" | "6231056" | "6237995" | "6340168" | "6409190" | "6460866" | "6595536" | "6601862" | "6623023" | "6676140" | "6688614" | "7029015").PN. OR ("7249779").URPN.					
L131	60	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2013/07/25 04:59 PM

		2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$).did. or (US-3000645-$ or US-2453631-$).did.					
L132	7295614	@ad<="20081204"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/29 06:38 PM
L133	2588	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/29 06:38 PM
L134	3082	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/29 06:38 PM
L135	1082	L132 and L133	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:39 PM
L136	1877	L132 and L134	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:39 PM
L137	5616	L133 or L134	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:41 PM
L138	2924	L132 and L137	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:41 PM
L139	1012	L138 and stroller	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:41 PM
L140	901	L139 and seat$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:41 PM
L141	757	L140 and (insert$4 or attach$4 or detach$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:42 PM
L142	107	L141 and ((double or tandem) same stroller)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/01/29 06:42 PM
L143	1	("5816367").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 09:23 AM
L144	3	("2006/0290107").URPN.	(USPAT)	OR	ON	ON	2014/01/30 02:24 PM
L145	78	("20030020259" | "20030227157" | "20060290107" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 02:26 PM

		"20070001429" | "20070085303" | "20070222167" | "20070296182" | "20080073877" | "20080150247" | "20090039620" | "20100038886" | "20100038887" | "20100072732" | "20100078916" | "20100109292" | "20100140902" | "20100282800" | "20120153583" | "2769482" | "2798733" | "2857953" | "2993702" | "3235279" | "3309101" | "4542915" | "4725071" | "4858947" | "5018754" | "5167425" | "5184835" | "5263730" | "5333893" | "5338096" | "5417449" | "5653460" | "5664795" | "5722682" | "5911432" | "6045145" | "6086087" | "6209892" | "6267406" | "6378892" | "6497424" | "6585284" | "6676140" | "6702316" | "6843498" | "6877761" | "6935652" | "6979017" | "7320471" | "7451999" | "7938433" | "8070179" | "8157273" | "8186705" | "8205894" | "D311363" | "D321850" | "D328047" | "D359937" | "D375706" | "D429664" | "D430076" | "D431212" | "D455679" | "D587635" | "D614540" | "D616337" | "D616338" | "D636300").PN. OR ("8371606").URPN.					
L146	8	("2010/0078916").URPN.	(USPAT)	OR	ON	ON	2014/01/30 02:27 PM
L147	8	("20070096438" | "20100025968" | "20100078916" | "6422586" | "7401803" | "7441794" | "7632035" | "7766366").PN. OR ("8596669").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 02:27 PM
L148	1	("8157273").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 04:20 PM

L149	18	("0522608" | "1707186" | "3223431" | "3524655" | "3997180" | "4620686" | "4632409" | "4836573" | "6267406" | "6752405" | "7364183").PN. OR ("8157273").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 04:21 PM
L150	1	("5338096").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 04:23 PM
L151	19	("3223431" | "3915493" | "3917312" | "4886209" | "5184835").PN. OR ("5338096").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 04:24 PM
L152	23	("4657269" | "4836573" | "5184835" | "5338096" | "5664795" | "5911432").PN. OR ("6045145").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 05:17 PM
L153	53	("20030192925" | "20050072821" | "2907372" | "3079162" | "3248125" | "3627342" | "3961803" | "3967833" | "4032173" | "4113306" | "4181356" | "4220351" | "4231587" | "4239259" | "4256325" | "4412688" | "4620711" | "4681340" | "4762256" | "4844504" | "4892327" | "5230523" | "5333769" | "5398951" | "5411729" | "5431478" | "5468009" | "5478096" | "5662339" | "5806924" | "5829826" | "5964470" | "5987665" | "6045145" | "6231056" | "6250654" | "6375213" | "6811178" | "6910696" | "D254610" | "D345720" | "D358058" | "D365925" | "D402235" | "D508443").PN. OR ("7497461").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 05:56 PM
L154	6	("5653460" | "6045145" | "6378892").PN. OR ("7320471").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/30 06:00 PM
L155	23	("20010013689" | "20040032103" | "20040094923" | "20070057486" | "20080012268" | "20080231022" | "20090127827" | "20090243260" | "20090295128" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/31 10:54 AM

		"4398748" | "4836573" | "6446990" | "6478327" | "6572134" | "7497461" | "7513512" | "7658399" | "7686322" | "7712765" | "7775532" | "7832755" | "7878527" | "7938435").PN. OR ("8231136").URPN.					
L156	2	("2008/0231022").URPN.	(USPAT)	OR	ON	ON	2014/01/31 12:58 PM
L157	14	("20040094923" | "20070057486" | "20080012268" | "20080231022" | "20090127827" | "20090243261" | "20120098219" | "4398748" | "4836573" | "6446990" | "6478321" | "6478327" | "6572134" | "7712765").PN. OR ("8458880").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/31 12:59 PM
L158	1	("7938435").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/01/31 01:26 PM
L159	34	("4157839" | "5558357" | "5676386" | "5772279" | "5794951" | "5863061" | "5865447" | "5876046" | "5947555" | "6241274" | "6286844" | "6331032" | "6409205" | "6428034" | "6478327" | "6533309" | "6666473" | "6893040" | "7032922" | "7267359" | "7377537" | "7431395" | "7475900" | "7681894" | "7766366").PN. OR ("7938435").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/02/03 12:41 PM
L160	17	("20050098983" | "2842374" | "6357784" | "7118121" | "7267359" | "7367581" | "7441794" | "7527283").PN. OR ("7766366").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/02/03 12:56 PM
L161	105	("1727335" | "2435733" | "2508905" | "2509103" | "2574743" | "2722966" | "2805076" | "2864429" | "3083997" | "3116069" | "3549164" | "3829113" | "4108468" | "4412689" | "4537414" | "4570956" | "4697845" | "4743063" | "4750783" | "4762331" | "4768795" | "4786064"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/02/03 01:14 PM

		| "4822064" | "4832354" | "4834403" | "4861105" | "4874182" | "4915401" | "4921261" | "5121940" | "5133567" | "5197753" | "5201535" | "5203577" | "5234224" | "5265931" | "5364137" | "5375869" | "5385386" | "5499831" | "5527096" | "5564778" | "5567008" | "5601297" | "5676386" | "5707106" | "5727798" | "5772279" | "5865447" | "5876046" | "5974555").PN. OR ("6286844").URPN.					
L162	52	("3779655" | "4191397" | "4216974" | "4412688" | "4602889" | "4634177" | "4645371" | "4834403" | "5028061" | "5257799" | "5527096" | "5772279" | "5865447" | "6286844").PN. OR ("6513827").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/02/03 01:21 PM
L168	1	("20140217706").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:03 AM
L169	3175	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:24 AM
L170	7324421	@ad<="20081204"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:24 AM
L171	1878	L169 and L170	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:25 AM
L172	64	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 10:25 AM

		7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-6513827-$).did. or (US-3000645-$ or US-2453631-$).did.					
L173	3686032	@pd>="20140129"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 10:56 AM
L174	1	L171 and L173	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 10:56 AM
L175	13	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 10:57 AM
L176	1	("7,497,461").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:01 AM
L177	94	L169 and L173	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 11:08 AM
L178	12	("20070296182" |	(US-PGPUB; USPAT;	OR	ON	ON	2014/09/24

		"20100117315" | "5820144" | "6086086" | "6513827" | "6715783" | "7032922" | "7066542" | "7364183" | "7377537" | "7455362" | "8061732").PN. OR ("8764048").URPN.	USOCR)				11:25 AM
L179	15	("3797848" | "4832361" | "5074575" | "6116624" | "6446990" | "6508605" | "6530591" | "6824161" | "6830254" | "6851700" | "6951342" | "7021650" | "7273225" | "7401803" | "7513512").PN. OR ("8696016").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:41 AM
L180	1	("7,938,435").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:47 AM
L181	1	("20080231022").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:47 AM
L182	2	("2008/0231022").URPN.	(USPAT)	OR	ON	ON	2014/09/24 11:48 AM
L183	1	("7,766,366").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:51 AM
L184	1	("6,286,844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:52 AM
L185	1	("6,513,827").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:53 AM
L186	0	(2006/0131841).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:53 AM
L187	1	("20060131841").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:54 AM
L188	1	("20060001226").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:54 AM
L189	1	("7,320,471").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:55 AM
L190	1	("6,045,145").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:55 AM
L191	1	("20080224451").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:55 AM
L192	1	("7,481,439").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 11:57 AM
L193	1	("7,367,581").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 11:57 AM
L194	1	("8,029,007").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:58 AM
L195	1	("6,923,467").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 11:58 AM
L196	1	("20070090619").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 11:58 AM

L197	1	("6,851,693").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 11:59 AM
L198	1	("20010033069").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 12:00 PM
L199	1	("7,249,779").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 12:00 PM
L200	57	("1218943" | "1347384" | "1408729" | "1560288" | "20010035626" | "20030151225" | "2305719" | "2435733" | "2468933" | "2798727" | "3314494" | "3738700" | "3954283" | "4015297" | "4825484" | "4958842" | "5125674" | "5190306" | "5558357" | "5562300" | "5590896" | "5692760" | "5709400" | "5820146" | "5884922" | "5975551" | "6164666" | "6231056" | "6237995" | "6340168" | "6409190" | "6460866" | "6595536" | "6601862" | "6623023" | "6676140" | "6688614" | "7029015").PN. OR ("7249779").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 12:02 PM
L201	2665	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 12:02 PM
L202	79	L201 and L173	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2014/09/24 12:03 PM
L203	2	L202 and L170	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 12:03 PM
L204	1	("5338096").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 01:24 PM
L205	1	("20030025304").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 01:25 PM
L206	1	("20070001429").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 01:25 PM
L207	1	("20070085303").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2014/09/24 01:26 PM
L208	1	("20070114738").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 01:26 PM
L209	1	("7681894").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 02:33 PM
L210	14	("20040164593" | "3145442" | "5865447" | "5947555" | "6446314" | "7032922").PN. OR ("7681894").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 02:33 PM
L211	1	("7377537").PN.	(US-PGPUB; USPAT;	OR	ON	ON	2014/09/24

			USOCR)				02:34 PM
L212	41	("7249779"|"3000645"|"7677585"|"7377537"|"20060001226"|"8029007"|"20080231022"|"7766366"|"6443467"|"6561526"|"20080224451"|"6513827"|"7475900"|"7497461"|"20070114738"|"1707186"|"6752405"|"6851693"|"7938435"|"6676140"|"6045145"|"6923467"|"20030025304"|"20070001429"|"5338096"|"6045145"|"20070090619"|"6209892"|"6378892"|"7896384"|"8157273"|"8251382"|"8262103"|"8336904"|"20010033069"|"20060131841"|"7320471"|"7367581"|"7481439"|"6286844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2014/09/24 02:56 PM
L219	19	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2015/04/20 01:53 PM
L220	22	("7249779"|"20060001226"|"20080231022"|"7766366"|"8029007"|"20080224451"|"6513827"|"4797461"|"7497461"|"6851693"|"7938435"|"6045145"|"6923467"|"8905427"|"20070090619"|"20010033069"|"20060131841"|"6286844"|"7320471"|"7367581"|"7481439"|"8882134").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 01:58 PM
L221	1	("7475900").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:02 PM
L222	68470442	@ad<="20081204"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:02 PM
L223	1214191	@pd>="20140924"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:03 PM
L224	3292	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:04 PM
L225	2741	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:04 PM
L226	5977	L224 or L225	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:04 PM
L227	2929	L226 and L222	(US-PGPUB; USPAT;	OR	ON	ON	2015/04/20

			USOCR; FPRS; EPO; JPO)				02:04 PM
L228	2	L227 and L223	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:04 PM
L229	88	("0119331" | "1138802" | "1269379" | "1707186" | "1890469" | "20040251063" | "20070045975" | "20090115151" | "20090160162" | "20100038887" | "20100140902" | "20110175330" | "3223431" | "3612603" | "3726536" | "4222132" | "4349938" | "4391453" | "4403807" | "4684148" | "4725071" | "4805938" | "4834415" | "4834452" | "4858947" | "4872692" | "4969656" | "5018754" | "5033761" | "5064209" | "5167425" | "5221106" | "5230523" | "5338096" | "5653460" | "5664795" | "5772235" | "5887935" | "5918892" | "6086087" | "6099022" | "6267406" | "6357784" | "6361111" | "6375213" | "6431579" | "6527294" | "6536842" | "6585284" | "6676140" | "6679506" | "6752405" | "6843498" | "6935652" | "6938906" | "6938954" | "7025364" | "7364183" | "7367581" | "7516966" | "7597332" | "7896384" | "8128103" | "8157273" | "8398143" | "D296540" | "D300310" | "D305316" | "D321850" | "D328047" | "D348489" | "D360392" | "D370437" | "D382516" | "D404344" | "D430512" | "D431212" | "D452191" | "D568794" | "D593458" | "D595621" | "D598333").PN. OR ("8905427").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:04 PM
L230	84	(B62B7/00).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:08 PM

L231	796	(B62B7/008).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L232	666	(B62B7/14).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L233	894	(B62B7/142).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L234	1003	(B62B9/102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L235	450	(B62B9/12).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L236	3236	L230 L231 L232 L233 L234 L235	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:12 PM
L237	2104	L236 and L222	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:13 PM
L238	70	L237 and (seat$3 same revers$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:14 PM
L239	77	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070069505-$ or US-20080231022-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:14 PM

		6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-6513827-$ or US-8764048-$ or US-8061732-$).did. or (US-8733784-$ or US-8696016-$ or US-8231136-$ or US-8458880-$ or US-7249779-$ or US-7681894-$ or US-8955869-$ or US-8905427-$).did. or (US-3000645-$ or US-2453631-$).did.					
L240	58	L238 not L239	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/04/20 02:14 PM
L241	1	("8882134").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:15 PM
L242	87	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:16 PM

		"20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6935652" | "6938906" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128119" | "8157273" | "8262107" | "8276935" | "D326748" | "D431798").PN. OR ("8882134").URPN.					
L243	1	("6361111").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:19 PM
L244	1	("20040251063").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:19 PM
L245	1	("6527294").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:20 PM

L246	1	("20070045975").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:20 PM
L247	27	("20060001226" | "20070045975" | "20080296872" | "20090033066" | "5301970" | "5520433" | "5601302" | "5709400" | "5845924" | "6099022" | "6193263" | "6203054" | "6209892" | "6398233" | "6446990" | "6540250" | "6715783" | "7377537" | "7475900" | "7753398").PN. OR ("8029014").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/04/20 02:30 PM
L249	2790	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/12/07 10:16 AM
L250	3337	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/12/07 10:16 AM
L251	102	(B62B7/00).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L252	824	(B62B7/008).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L253	686	(B62B7/14).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L254	947	(B62B7/142).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L255	1031	(B62B9/102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L256	520	(B62B9/12).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L257	3385	L251 L252 L253 L254 L255 L256	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L258	1888686	@pd>="20150420"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L259	6070	L249 or L250	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L260	49	L258 and L249	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L261	93	L258 and L259	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM

L262	45	L258 and L250	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:17 AM
L263	44	L262 not L260	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:18 AM
L264	105	L258 and L257	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:19 AM
L265	94	L264 not L263	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:19 AM
L266	93	L265 not L260	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2015/12/07 10:19 AM
L267	1	("8936261").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/12/07 12:33 PM
L268	64	("20040164593" | "20060261565" | "20070045975" | "20070069505" | "20070187914" | "20080054579" | "20080150247" | "20080179848" | "20080303232" | "20090033066" | "20090102162" | "20090256323" | "20100013281" | "20100102535" | "20100127480" | "20100230933" | "20100244408" | "20100259021" | "20110204600" | "20110291389" | "20110304124" | "20120025492" | "20120153583" | "20120242062" | "20120261961" | "20130113188" | "4872692" | "5018405" | "5676386" | "5722682" | "5947555" | "6513827" | "6530591" | "6581957" | "6851700" | "7032922" | "7267359" | "7377537" | "7401803" | "7681894" | "7686323" | "7753397" | "7753398" | "7789402" | "7798500" | "7938435" | "8029014" | "8033555" | "8157286" | "8205906" | "8240700" | "8251382" |	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/12/07 12:33 PM

		"8322744" | "8366127" | "8454049" | "8465045" | "8469388" | "8474854" | "8480116" | "8485546" | "8544873" | "8550489" | "8596669").PN. OR ("8936261").URPN.					
L269	18	("1671774" | "1707186" | "20050167951" | "20070194545" | "20100052277" | "20110163519" | "20120118516" | "7032922" | "7871100" | "8157273" | "8251382" | "8585075" | "8651502" | "8727370" | "D686541").PN. OR ("9010773").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2015/12/07 01:12 PM
L270	1	("6,286,844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2015/12/07 06:14 PM
L271	110	(B62B7/00).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L272	855	(B62B7/008).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L273	694	(B62B7/14).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L274	989	(B62B7/142).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L275	1052	(B62B9/102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L276	540	(B62B9/12).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L277	3473	L271 L272 L273 L274 L275 L276	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:45 PM
L278	3353	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 12:46 PM
L279	2802	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 12:46 PM
L280	279114	@pd>="20151207"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:47 PM
L281	21	L277 and L280	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:53 PM
L282	16	L278 and L280	(US-PGPUB; USPAT;	OR	ON	ON	2016/02/12

			USOCR; FPRS; EPO; JPO)				12:53 PM
L283	12	L279 and L280	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:53 PM
L284	17	L281 not (L282 or L283)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/02/12 12:53 PM
L285	2	("20070069504" | "7401803").PN. OR ("9242665").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 01:16 PM
L286	70	("20030020259" | "20040094935" | "20060226635" | "20060290107" | "20070075525" | "20070085303" | "20070114738" | "20070267833" | "20080001370" | "20080179863" | "20080224432" | "20090039620" | "20090236826" | "20090302578" | "20100038886" | "20100038887" | "20100072731" | "20100140902" | "20100201089" | "20100282800" | "20100301585" | "20110175330" | "20120098219" | "20120098237" | "20120169021" | "20130049331" | "20130234419" | "20130264787" | "20130270800" | "20140159346" | "20140312586" | "20140346756" | "4542915" | "4725071" | "5338096" | "5417449" | "5664795" | "6086087" | "6267406" | "6676140" | "6702316" | "6843498" | "6877761" | "7451999" | "7699325" | "7971884" | "8070180" | "8146926" | "8157273" | "8205894" | "8282109" | "8322745" | "8398143" | "8444171" | "8480115" | "8684395" | "8714582" | "8757646" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 01:18 PM

		"8807588" | "8844964" | "8857829" | "8905427" | "8915516" | "D321850" | "D359937" | "D375706" | "D429664" | "D430076" | "D431212" | "D636300").PN. OR ("9227650").URPN.					
L287	1	("7475900").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 01:19 PM
L288	1	("4343124").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 03:17 PM
L289	1	("4340124").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 03:18 PM
L290	1	("20140361517").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/02/12 03:50 PM
L291	111	(B62B7/00).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L292	864	(B62B7/008).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L293	699	(B62B7/14).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L294	993	(B62B7/142).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L295	1054	(B62B9/102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L296	542	(B62B9/12).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L297	3486	L291 L292 L293 L294 L295 L296	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:44 PM
L298	3358	(280/650,657,647,648,658,639,642,643).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 04:45 PM
L299	2805	(297/130,232,243,463.1).CCLS.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 04:45 PM
L300	6106	L298 or L299	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:45 PM
L301	83034	@pd>="20160212"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:45 PM
L302	8	L300 and L301	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2016/03/25 04:59 PM
L303	6	L297 and L301	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2016/03/25 05:01 PM

			JPO)				
L304	13	("20080231022" | "20090243261" | "20130113188" | "6513827" | "7267359" | "7377537" | "7798500" | "7938435" | "8061732" | "8733784" | "8764048" | "8777253" | "8955869").PN. OR ("9260128").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:03 PM
L305	94	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20080224451" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "20140191483" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6877762" | "6935652" | "6938906" | "6981709" | "7059625" | "7261308" | "7338122" | "7481439" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:04 PM

		"7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128118" | "8128119" | "8157273" | "8262107" | "8276935" | "8882134" | "9056622" | "D326748" | "D431798").PN. OR ("9260127").URPN.					
L306	1	("20150123440").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:20 PM
L307	1	("8955869").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:22 PM
L308	32	("20010033069" | "20060001226" | "20060131841" | "20070090619" | "20080224451" | "20080231022" | "6045145" | "6286844" | "6513827" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7475900" | "7481439" | "7497461" | "7681894" | "7766366" | "7938435" | "8029007" | "8033554" | "8061732" | "8231136" | "8444171" | "8458880" | "8696016" | "8733784" | "8764048").PN. OR ("8955869").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:22 PM
L309	2	"39773911".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/25 05:27 PM
L310	32	("4657269" | "4836573" | "5184835" | "5338096" | "5664795" | "5911432").PN. OR ("6045145").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:33 PM
L311	28	("1203729" | "1321009" | "20020036391" | "20050023783" | "20070075525" | "20070216138" | "20070222167" | "20090315300" | "20100072732" | "2769482" | "4923208" | "5338096" | "5417449" | "5664795" | "5722682" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:37 PM

		"5740989" | "5887935" | "6045145" | "6378892" | "6676140" | "7011318" | "7445229" | "8282119" | "D587635" | "D614540").PN. OR ("8857830").URPN.					
L312	15	"37454081".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/25 05:37 PM
L313	1	"41399621".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/25 05:41 PM
L314	6	("2009/0302578").URPN.	(USPAT)	OR	ON	ON	2016/03/25 05:42 PM
L315	70	("20030020259" | "20040094935" | "20060226635" | "20060290107" | "20070075525" | "20070085303" | "20070114738" | "20070267833" | "20080001370" | "20080179863" | "20080224432" | "20090039620" | "20090236826" | "20090302578" | "20100038886" | "20100038887" | "20100072731" | "20100140902" | "20100201089" | "20100282800" | "20100301585" | "20110175330" | "20120098219" | "20120098237" | "20120169021" | "20130049331" | "20130234419" | "20130264787" | "20130270800" | "20140159346" | "20140312586" | "20140346756" | "4542915" | "4725071" | "5338096" | "5417449" | "5664795" | "6086087" | "6267406" | "6676140" | "6702316" | "6843498" | "6877761" | "7451999" | "7699325" | "7971884" | "8070180" | "8146926" | "8157273" | "8205894" | "8282109" | "8322745" | "8398143" | "8444171" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:43 PM

		"8480115" | "8684395" | "8714582" | "8757646" | "8807588" | "8844964" | "8857829" | "8905427" | "8915516" | "D321850" | "D359937" | "D375706" | "D429664" | "D430076" | "D431212" | "D636300").PN. OR ("9227650").URPN.					
L316	108	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20090243261-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:54 PM

		6851693-$ or US- 5848797-$).did. or (US- 3000645-$ or US- 8070180-$ or US- 7832755-$ or US- 7261308-$ or US- 5704627-$ or US- 5794951-$ or US- 5647601-$ or US- 2453631-$ or US- 6443467-$ or US- 8205906-$ or US- 8262103-$ or US- 8336904-$ or US- 8371606-$ or US- 8251382-$ or US- 7377537-$ or US- 7320471-$ or US- 7032922-$ or US- 7367581-$ or US- 8029007-$ or US- 7699325-$ or US- 6827356-$ or US- 8398098-$ or US- 7766366-$ or US- 6286844-$ or US- 6513827-$ or US- 8764048-$ or US- 8061732-$).did. or (US- 8733784-$ or US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US- 8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US- 9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$).did. or (US- 9260127-$ or US- 8857830-$ or US-				

		2769482-$).did. or (US-3000645-$ or US-2453631-$).did.					
L317	1	("20090290107").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:56 PM
L318	1	("20060290107").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 05:58 PM
L319	1	("4542915").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 06:07 PM
L320	2	"47750100".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/25 09:54 PM
L321	1	("6209892").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 11:02 PM
L322	60	("3829113" | "4729572" | "4768795" | "4861105" | "5056865" | "5076599" | "5146656" | "5322343" | "5676386" | "5727798" | "5820144" | "5887889").PN. OR ("6209892").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/25 11:02 PM
L323	60	("3829113" | "4729572" | "4768795" | "4861105" | "5056865" | "5076599" | "5146656" | "5322343" | "5676386" | "5727798" | "5820144" | "5887889").PN. OR ("6209892").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2016/03/28 11:14 AM
L324	0	(A stroller, comprising a stroller frame a plurality of wheels, including front and rear wheels a first seat coupled to the stroller frame at a first vertical position closer to a handle of the stroller frame and configured to hold a first child in the stroller a second seat attachment coupled to the stroller frame at a second vertical position substantially below the first vertical position and closer to the front wheels and comprising a left seat support element, wherein the left seat support element comprises a first connector portion releasably connected to the stroller frame closer	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:20 PM

		to left front wheel and a left seat connector releasably connecting a second seat in either a forward or backward position and a right seat support element, wherein the right seat support element comprises a second connector portion releasably connected to the stroller frame closer to a right front wheel and a right seat connector releasably connecting the second seat in either a forward or backward position between the left and right seat support connectors and the second seat releasably connected to the left seat connector and the right seat connector and configured to hold a second child in the stroller while the first seat holds the first child).clm.					
L325	0	(stroller frame wheel seat first vertical position handle child attach$4 coupl$3 left seat support element, first connector portion releas$4 connect$4 forward backward position).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:42 PM
L326	0	(stroller frame wheel seat vertical position handle attach$4 coupl$3 left seat support element, first connector portion releas$4 connect$4 forward backward position).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:42 PM
L327	0	(stroller frame wheel seat vertical position handle attach$4 coupl$3 left support element portion releas$4 connect$4 forward backward position).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:43 PM

L328	0	(stroller frame wheel seat vertical position handle attach$4 coupl$3 left support element portion releas$4 connect$4 forward backward).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:43 PM
L329	0	(stroller frame wheel seat vertical position handle attach$4 coupl$3 left support$4 releas$4 connect$4 forward backward).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:43 PM
L330	3	(stroller frame wheel seat vertical position handle attach$4 left support$4 releas$4 connect$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:44 PM
L331	14	(stroller frame wheel seat vertical position handle attach$4 support$4 releas$4 connect$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:45 PM
L332	15	(stroller frame wheel seat vertical position handle attach$4 releas$4 connect$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:46 PM
L333	1	L332 not L331	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:46 PM
L334	18	(stroller frame wheel seat vertical position handle attach$4 releas$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:47 PM
L335	3	L334 not L332	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:47 PM
L336	25	(stroller frame wheel seat vertical position$4 attach$4 releas$4).clm.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:48 PM
L337	7	L336 not L334	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2016/03/28 01:48 PM
L338	1	"41399621".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2016/03/28 01:48 PM
L339	1	("20160339940").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/08 04:58 PM
L340	3453	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:22 PM
L341	2353	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2017/06/08 05:23 PM

			JPO)				
L342	5184262	@pd>="20160325"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:31 PM
L343	5004	L340 or L341	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:33 PM
L344	254	L342 and L343	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/08 05:33 PM
L346	4	(Lee near2 (Jon and Hee)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2017/06/08 05:52 PM
L347	14	(Roe near2 Megan).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2017/06/12 08:15 AM
L348	1	(Simpson near2 (Stacy and Noel)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2017/06/12 08:16 AM
L349	66	("1707186"|"20010033069"|"20060001226"|"20060131841"|"20060290107"|"20070090619"|"20080224451"|"20080231022"|"20090302578"|"3000645"|"4542915"|"5338096"|"6045145"|"6209892"|"6286844"|"6378892"|"6443467"|"6513827"|"6561526"|"6676140"|"6752405"|"6851693"|"6923467"|"7249779"|"7311323"|"7320471"|"7367581"|"7377537"|"7401803"|"7475900"|"7481439"|"7497461"|"7677585"|"7681894"|"7766366"|"7896384"|"7938435"|"8029007"|"8029014"|"8033554"|"8061732"|"8157273"|"8231136"|"8251382"|"8262103"|"8336904"|"8444171"|"8458880"|"8696016"|"8733784"|"8764048"|"8882134"|"8905427"|"8936261"|"9010773"|"9108654"|"9108659"|"9119483"|"9199659"|"9200746"|"9227650"|"9242665"|"9260127"|"9260128").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 09:35 AM
L350	111	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 09:36 AM

		US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20090243261-$ or US-20130049331-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-					

		8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-8398098-$ or US-7766366-$ or US-6286844-$ or US-6513827-$ or US-8764048-$ or US-8061732-$).did. or (US-8733784-$ or US-8696016-$ or US-8231136-$ or US-8458880-$ or US-7249779-$ or US-7311323-$ or US-8444171-$ or US-8033554-$ or US-7681894-$ or US-8955869-$ or US-8905427-$ or US-8882134-$ or US-8029014-$ or US-7789402-$ or US-7658399-$ or US-5167425-$ or US-8936261-$ or US-9010773-$ or US-9119483-$ or US-9200746-$ or US-9199659-$ or US-9108659-$ or US-9073563-$ or US-9242665-$ or US-7401803-$ or US-9227650-$ or US-9260128-$).did. or (US-9260127-$ or US-8857830-$ or US-2769482-$ or US-4542915-$ or US-6715783-$).did. or (US-3000645-$ or US-2453631-$).did.					
L351	4	L349 not L350	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 09:41 AM
L352	34	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 09:44 AM
L353	96	("1269379" | "1707186"	(US-PGPUB; USPAT;	OR	ON	ON	2017/06/12

		| "1890469" | "20020158444" | "20040251063" | "20070045975" | "20080122200" | "20080224451" | "20090115151" | "20090160162" | "20090289440" | "20100038887" | "20100140902" | "20110175330" | "20140265258" | "3053493" | "3223431" | "3612603" | "3726536" | "4222132" | "4349938" | "4391453" | "4403807" | "4684148" | "4725071" | "4805938" | "4834415" | "4834452" | "4858947" | "4872692" | "4969656" | "5018754" | "5033761" | "5064209" | "5167425" | "5221106" | "5230523" | "5338096" | "5522121" | "5653460" | "5664795" | "5772235" | "5887935" | "5918892" | "6086087" | "6099022" | "6267406" | "6357784" | "6361111" | "6375213" | "6431579" | "6527294" | "6536842" | "6585284" | "6676140" | "6679506" | "6752405" | "6843498" | "6935652" | "6938906" | "6938954" | "7025364" | "7364183" | "7367581" | "7516966" | "7597332" | "7896384" | "8128103" | "8157273" | "8220822" | "8282120" | "8297642" | "8398143" | "8905427" | "D296540" | "D300310" | "D305316" | "D321850" | "D328047" | "D348489" | "D360392" | "D370437" | "D382516" | "D404344" | "D430512" | "D431212" | "D452191" | "D568794" | "D593458" | "D595621" | "D598333").PN. OR ("9517787").URPN.	USOCR)				09:46 AM
L354	8	"48223173".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2017/06/12 09:47 AM

L355	10	("2013/0113185").URPN.	(USPAT)	OR	ON	ON	2017/06/12 09:48 AM
L356	36	("1486118" | "2769482" | "2993702" | "3253860" | "3497234" | "3612603" | "4155588" | "4181356" | "4288124" | "4381870" | "4596405" | "4632409" | "4711489" | "4813742" | "4946180" | "5161811" | "5201535" | "5213360" | "5374073" | "5401076" | "5547205" | "5848797" | "5988657" | "6135479" | "6276709" | "D340140").PN. OR ("6561526").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 09:52 AM
L357	22	("1707186").URPN.	(USPAT)	OR	ON	ON	2017/06/12 09:53 AM
L358	0	L350 and (cover$4 same door)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 09:56 AM
L359	0	L350 and (cover$4 same2 door)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:00 AM
L360	17	L350 and (cover$4 same attach$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:00 AM
L361	1	("7377537").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:08 AM
L362	56	("4836573" | "4892327" | "5028061" | "5069474" | "5257799" | "5460430" | "5887935" | "5921574" | "6099022" | "6523853" | "6594840" | "6739649" | "7281732").PN. OR ("7377537").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:08 AM
L363	3	L349 and door	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:13 AM
L364	1	("9517787").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:19 AM
L365	1	("9517789").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:20 AM
L366	1	("9561817").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:20 AM
L367	1	("9493179").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:21 AM
L368	3453	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:22 AM
L369	2353	(B62B9/12,28,102).CP	(US-PGPUB; USPAT;	OR	ON	ON	2017/06/12

		C.	USOCR; FPRS; EPO; JPO)				10:22 AM
L370	5004	L368 or L369	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:22 AM
L371	23	L370 and (cover$4 same door)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:22 AM
L372	5	L370 and (cavit$3 same door)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:23 AM
L373	35	("2917316" | "2993702" | "3110504" | "3248125" | "3309101" | "5579556" | "5622375" | "5664795" | "5725238" | "6086087" | "6276759" | "6312005" | "D319493" | "D444738" | "D450265").PN. OR ("6447001").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:23 AM
L374	40	L370 and (cavit$3 same cover$4)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/06/12 10:24 AM
L375	1	("5522121").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:28 AM
L376	25	("0461069" | "1318850" | "1352647" | "1688148" | "1707186" | "4805938").PN. OR ("5522121").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:29 AM
L377	1	("6449801").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:29 AM
L378	1	("20070114738").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:30 AM
L379	2	"38052732".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2017/06/12 10:30 AM
L380	41	("20010033069" | "20020135142" | "20030025304" | "20030127835" | "20040164510" | "20070090619" | "5463853" | "5622375" | "5625923" | "5725238" | "5882022" | "5909887" | "5967190" | "6098492" | "6422634" | "6447001" | "6453921" | "6530591" | "6540238" | "6557878" | "6698772" | "6827356" | "6893028" | "7159829" | "7290776").PN. OR ("8029007").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:30 AM

L381	13	("20040164510" | "20070090619" | "20120098237" | "20130234419" | "20130264787" | "20160001805" | "3061328" | "5622375" | "6422634" | "6530591" | "7004272" | "8029007").PN. OR ("9545941").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:31 AM
L382	91	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6935652" | "6938906" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:33 AM

		"7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128119" | "8157273" | "8262107" | "8276935" | "D326748" | "D431798").PN. OR ("8882134").URPN.					
L383	42	("0522608" | "1707186" | "3223431" | "3524655" | "3997180" | "4620686" | "4632409" | "4836573" | "6267406" | "6752405" | "7364183").PN. OR ("8157273").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:46 AM
L384	15	("20050242548" | "20070052271" | "4518139" | "4681340" | "6022077" | "6536842").PN. OR ("7364183").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 10:49 AM
L385	1	("6286844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:09 PM
L386	119	("1727335" | "2435733" | "2508905" | "2509103" | "2574743" | "2722966" | "2805076" | "2864429" | "3083997" | "3116069" | "3549164" | "3829113" | "4108468" | "4412689" | "4537414" | "4570956" | "4697845" | "4743063" | "4750783" | "4762331" | "4768795" | "4786064" | "4822064" | "4832354" | "4834403" | "4861105" | "4874182" | "4915401" | "4921261" | "5121940" | "5133567" | "5197753" | "5201535" | "5203577" | "5234224" | "5265931" | "5364137" | "5375869" | "5385386" | "5499831" | "5527096" | "5564778" | "5567008" | "5601297" | "5676386" | "5707106" | "5727798" | "5772279" | "5865447" | "5876046" | "5974555").PN. OR ("6286844").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:13 PM
L387	91	("0706448" | "1480451" | "1508500" | "1952467" | "20010013689" | "20040212161" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:16 PM

		"20060085953" | "20070085302" | "20070120404" | "20090029784" | "20090181780" | "20110278810" | "20120023662" | "20120060326" | "20120235450" | "20130334781" | "20140042729" | "20150008659" | "20150042056" | "20150042076" | "20150175189" | "2708585" | "2961248" | "3564626" | "4476649" | "5099528" | "5201535" | "5562548" | "5676386" | "5772279" | "5846136" | "5947555" | "5987665" | "5988670" | "6250654" | "6286844" | "6471597" | "6671926" | "6872146" | "6893040" | "7037205" | "7100724" | "7354352" | "7377537" | "7445559" | "7475942" | "7497461" | "7607734" | "7681894" | "7686323" | "7694996" | "7766366" | "7905791" | "7938435" | "8029014" | "8251382" | "8292750" | "8550556" | "8672341" | "8746794" | "8851505" | "8944927" | "8955869" | "9085312" | "D156930" | "D371094" | "D377466" | "D408768" | "D442895" | "D452195" | "D475951" | "D481976" | "D498713" | "D498714" | "D519063" | "D604055" | "D622640" | "D623429" | "D667229" | "D682562" | "D684789" | "D687352" | "D743304").PN. OR ("9421992").URPN.					
L388	20	("20010040357" | "20080106070" | "20100127480" | "20110181026" | "20160144879" | "5257799" | "5645293" | "6102432" | "6312005" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:16 PM

		"7281732" | "7641216" | "8141895" | "8240698" | "8585075" | "8696015" | "8696016" | "8998241" | "9050993" | "9421991" | "9540028").PN. OR ("9637155").URPN.					
L389	9	("20120326474" | "4306749" | "4634177" | "4915446" | "5947556" | "6286844" | "6595583" | "8251382" | "8678498").PN. OR ("9346378").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:21 PM
L390	9	("20120326474" | "4306749" | "4634177" | "4915446" | "5947556" | "6286844" | "6595583" | "8251382" | "8678498").PN. OR ("9346378").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:54 PM
L391	28	("20030015895" | "20090066130" | "20090295207" | "4306749" | "4750783" | "5385387" | "5478135" | "5562548" | "5586351" | "5997098" | "6017088" | "6170911" | "6299249" | "6331032" | "6336682" | "6347832" | "6428099" | "6428100" | "6443522" | "6554358" | "6705676" | "6793280" | "6921359" | "6979057" | "7090294").PN. OR ("8678498").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 12:55 PM
L392	54	("20080150247" | "20080179848" | "20080224451" | "20080303232" | "20090102162" | "20090121455" | "20090256323" | "20100001492" | "20100109272" | "20100127480" | "4645371" | "5028061" | "5257799" | "5364137" | "5676386" | "5772279" | "5865447" | "5947555" | "6286844" | "6446990" | "6513827" | "6991248" | "7032922" | "7296820" | "7314247" | "7367581" | "7377537" | "7584985" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:08 PM

		"7658399" | "7681894" | "7686323" | "7694996" | "7712765" | "7753398").PN. OR ("8251382").URPN.					
L393	15	("20080231022" | "5773379" | "5947555" | "6286844" | "6893040" | "7032922" | "7267359" | "7475900" | "7658399" | "7681894" | "7766366" | "7938435" | "8033555" | "D621306").PN. OR ("8851505").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:09 PM
L394	58	("20010013689" | "20050264062" | "20060214397" | "20070257458" | "20070296182" | "20080136127" | "20080231023" | "20100219616" | "20100230933" | "20120025492" | "4834403" | "5028061" | "5201535" | "5203577" | "5257799" | "5277472" | "5364137" | "5564778" | "5567008" | "5676386" | "5772279" | "5794951" | "5947555" | "6086086" | "6089653" | "6286844" | "6318807" | "6446990" | "6572134" | "6595583" | "6793280" | "6802514" | "6863286" | "6942294" | "6983986" | "7032922" | "7070197" | "7207628" | "7370913" | "7377537" | "7681894" | "7686322" | "7694996" | "7753398" | "8029014" | "8070228" | "8172253" | "8282120" | "8382150").PN. OR ("8651502").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:09 PM
L395	76	("3779655" | "4191397" | "4216974" | "4412688" | "4602889" | "4634177" | "4645371" | "4834403" | "5028061" | "5257799" | "5527096" | "5772279" | "5865447" | "6286844").PN. OR ("6513827").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:12 PM
L396	49	("4915401" | "5133567" | "5277472" | "5564778"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:13 PM

		| "5644816" | "5676386" | "5772279").PN. OR ("5865447").URPN.					
L397	88	("0763771" | "0921361" | "1167525" | "2509972" | "2982562" | "3029087" | "3083997" | "3596986" | "4306749" | "4345791" | "4371206" | "4385769" | "4501032" | "4545613" | "4634177" | "4664396" | "4733909" | "4861105" | "4915446" | "4943113" | "4984813" | "4998307" | "5052750" | "5058283" | "5203577" | "5277472" | "5385387" | "D294777" | "D305583" | "D322001" | "D325132").PN. OR ("5567008").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:14 PM
L398	92	("2982562" | "3100651" | "3290050" | "3330575" | "3784252" | "4072318" | "4378946" | "4412688" | "4428598" | "4478427" | "4606550" | "4762364" | "4815764" | "5004253" | "5074575").PN. OR ("5201535").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:16 PM
L399	119	("1727335" | "2435733" | "2508905" | "2509103" | "2574743" | "2722966" | "2805076" | "2864429" | "3083997" | "3116069" | "3549164" | "3829113" | "4108468" | "4412689" | "4537414" | "4570956" | "4697845" | "4743063" | "4750783" | "4762331" | "4768795" | "4786064" | "4822064" | "4832354" | "4834403" | "4861105" | "4874182" | "4915401" | "4921261" | "5121940" | "5133567" | "5197753" | "5201535" | "5203577" | "5234224" | "5265931" | "5364137" | "5375869" | "5385386" | "5499831" | "5527096" | "5564778" | "5567008" | "5601297" | "5676386" | "5707106" | "5727798" | "5772279" | "5865447" | "5876046" | "5974555").PN. OR ("6286844").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:23 PM

L400	82	L397 not L399	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:23 PM
L401	20	("20040164593" | "3145442" | "5865447" | "5947555" | "6446314" | "7032922").PN. OR ("7681894").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:28 PM
L402	59	("20020175498" | "20020195797" | "20030111825" | "20040046364" | "20050098982" | "20060071452" | "20060237949" | "5772235" | "5823564" | "7032922").PN. OR ("7267359").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:30 PM
L403	1	("5201535").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:32 PM
L404	1	("6286844").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2017/06/12 01:47 PM
L405	3477	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:13 PM
L406	2369	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:13 PM
L407	5040	L405 or L406	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:13 PM
L408	1329175	@pd>="20170608"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:16 PM
L409	44	L407 and L408	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2017/11/13 04:16 PM
L410	3	"37808038".FMID.	(US-PGPUB; USPAT; FPRS)	OR	ON	ON	2017/11/13 05:27 PM
L423	1	("20180201293").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/15 10:50 AM
L424	39	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 10:51 AM
L425	8	(Lee near2 (Jon and Hee)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2019/04/15 10:52 AM
L426	18	(Roe near2 Megan).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2019/04/15 10:52 AM
L427	3	(Simpson near2 (Stacy and Noel)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2019/04/15 10:52 AM

L428	151	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20130049331-$ or US-20160001805-$ or US-20040164593-$ or US-20070075525-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$ or US-3000645-$).did. or (US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 11:03 AM

		2453631-$ or US- 6443467-$ or US- 8205906-$ or US- 8262103-$ or US- 8336904-$ or US- 8371606-$ or US- 8251382-$ or US- 7377537-$ or US- 7320471-$ or US- 7032922-$ or US- 7367581-$ or US- 8029007-$ or US- 7699325-$ or US- 6827356-$ or US- 8398098-$ or US- 7766366-$ or US- 6286844-$ or US- 6513827-$ or US- 8764048-$ or US- 8061732-$ or US- 8733784-$).did. or (US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US- 8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US- 9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$ or US- 9260127-$).did. or (US- 8857830-$ or US- 2769482-$ or US- 4542915-$ or US- 6715783-$ or US- 9108654-$ or US- 9630642-$ or US- 9517787-$ or US- 9327752-$ or US- 6561526-$ or US- 8967171-$ or US-				

		9517789-$ or US-9561817-$ or US-5522121-$ or US-9545941-$ or US-9056622-$ or US-9403550-$ or US-8899615-$ or US-7364183-$ or US-9637155-$ or US-9421992-$ or US-9545940-$ or US-9346378-$ or US-8678498-$ or US-4915446-$ or US-4634177-$ or US-4306749-$ or US-8851505-$).did. or (US-8651502-$ or US-6893040-$ or US-6446990-$ or US-5865447-$ or US-5772279-$ or US-5567008-$ or US-8657326-$ or US-8491000-$ or US-6155740-$ or US-5947555-$ or US-7267359-$ or US-9776652-$ or US-9771095-$ or US-9725106-$ or US-9701333-$).did. or (US-3000645-$ or US-2453631-$ or US-1707186-$).did.					
L429	55	L424 L425 L426 L427	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:25 PM
L430	3	L424 L425 L426 L427	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	AND	ON	ON	2019/04/15 12:25 PM
L431	80	("1707186" | "20010033069" | "20020109321" | "20060001226" | "20060131841" | "20060290107" | "20070090619" | "20080224451" | "20080231022" | "20090302578" | "20140191483" | "20160046315" | "3000645" | "4542915" | "5201535" | "5338096" | "5567008" | "6045145" | "6209892" | "6286844" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:26 PM

		"6378892" | "6443467" | "6513827" | "6561526" | "6676140" | "6752405" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7401803" | "7475900" | "7481439" | "7497461" | "7677585" | "7681894" | "7766366" | "7832755" | "7896384" | "7938435" | "8029007" | "8029014" | "8033554" | "8061732" | "8157273" | "8231136" | "8251382" | "8262103" | "8336904" | "8444171" | "8458880" | "8585075" | "8596670" | "8696016" | "8733784" | "8764048" | "8882134" | "8905427" | "8936261" | "9010773" | "9108654" | "9108659" | "9119483" | "9199659" | "9200746" | "9227650" | "9242665" | "9260127" | "9260128" | "9517787" | "9561817" | "9701333" | "9725106" | "9771095" | "9776652").PN. OR ("9944305").URPN.					
L432	3809	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:29 PM
L433	2627	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:29 PM
L434	5496	L432 or L433	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:29 PM
L435	7949590	@pd>="20171113"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:29 PM
L436	308	L434 and L435	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/04/15 12:30 PM
L437	2	("20100140902"|"20140333039").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:52 PM
L438	84	("1707186"|"20010033069"|"20020109321"|"20030025304"|"20060001226"|"20060131841"|"20060290107"|"20070001429"|"20070085303"|"20070090619"|"200701	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:54 PM

		14738"|"20080224451"|"20080231022"|"20090302578"|"20140191483"|"20160046315"|"3000645"|"4542915"|"5201535"|"5338096"|"5567008"|"6045145"|"6209892"|"6286844"|"6378892"|"6443467"|"6513827"|"6561526"|"6676140"|"6752405"|"6851693"|"6923467"|"7249779"|"7311323"|"7320471"|"7367581"|"7377537"|"7401803"|"7475900"|"7481439"|"7497461"|"7677585"|"7681894"|"7766366"|"7832755"|"7896384"|"7938435"|"8029007"|"8029014"|"8033554"|"8061732"|"8157273"|"8231136"|"8251382"|"8262103"|"8336904"|"8444171"|"8458880"|"8585075"|"8596670"|"8696016"|"8733784"|"8764048"|"8882134"|"8905427"|"8936261"|"9010773"|"9108654"|"9108659"|"9119483"|"9199659"|"9200746"|"9227650"|"9242665"|"9260127"|"9260128"|"9517787"|"9561817"|"9701333"|"9725106"|"9771095"|"9776652").PN.					
L439	7	L438 not L428	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:55 PM
L440	11	("20060214395" | "20070085303" | "20090302578" | "4763911" | "5356172" | "5395154" | "5593173" | "6431647").PN. OR ("8596670").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/15 12:58 PM
L441	12	("2007/0085303").URPN.	(USPAT)	OR	ON	ON	2019/04/15 01:05 PM
L443	1	("7475900").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/15 02:37 PM
L444	1	("7377537").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/15 02:47 PM
L445	1	("7677585").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/28 11:08 PM
L446	1	("7481439").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/28 11:09 PM
L447	21	("4222132" | "4805938"	(US-PGPUB; USPAT;	OR	ON	ON	2019/04/28

		| "4969656" | "5064209" | "5653460" | "5887935" | "5918892" | "6155592" | "6523840" | "6527294" | "6752405" | "D360392").PN. OR ("7481439").URPN.	USOCR)				11:10 PM
L448	94	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6935652" | "6938906" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:10 PM

		"8029007" | "8070179" | "8128119" | "8157273" | "8262107" | "8276935" | "D326748" | "D431798").PN. OR ("8882134").URPN.					
L449	28	("1707186" | "4222132" | "4288089" | "4354689" | "4805938" | "4969656" | "5064209" | "5076599" | "5522121" | "5653460" | "5918892" | "6086087" | "6527294" | "6752405").PN. OR ("6938906").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:13 PM
L450	56	("20030080536" | "20040075229" | "20040124611" | "20040173997" | "20050127640" | "20050242549" | "20090295128" | "20100038886" | "20100230933" | "4697823" | "4846494" | "4921261" | "4946180" | "5121940" | "5338096" | "5454575" | "5624152" | "5669623" | "5687984" | "5752738" | "6189914" | "6193263" | "6209892" | "6267406" | "6409205" | "6478327" | "6702316" | "6938906" | "6964429" | "6981709" | "7017937" | "7040694" | "7284797" | "7445230" | "7513512" | "7614640" | "7770911" | "8087680" | "8100429" | "8186705" | "8186706" | "8205894" | "8282119" | "8328208" | "8388016" | "8398098" | "8414012" | "D344474" | "D345128" | "D352923" | "D430076" | "D452192" | "D455679" | "D510549" | "D593459").PN. OR ("8641077").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:14 PM
L451	32	("6896286" | "D369992" | "D519422" | "D558099" | "D566013" | "D578045" | "D579827").PN. OR ("D593459").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:15 PM

L452	66	("20020093177" | "20020109320" | "20030075903" | "20030080536" | "20030111825" | "20040032103" | "20040094922" | "20040124610" | "20040124611" | "20040245747" | "20050093259" | "20050127640" | "20050242535" | "20050242549" | "20060119079" | "20070001429" | "20070108710" | "20070194545" | "20080157491" | "20090127827" | "5333893" | "5676386" | "5772279" | "5794951" | "5833261" | "5947555" | "6086087" | "6209892" | "6286844" | "6331032" | "6398233" | "6409205" | "6513827" | "6530591" | "6626452" | "6641164" | "6702316" | "6793280" | "6802514" | "6863286" | "6893031" | "6923467" | "6983986" | "6986518" | "7017921" | "7032922" | "7070197" | "7370913" | "7377537" | "7419181" | "7445229" | "7475900" | "7513512" | "7600775" | "7614641" | "7938435" | "D430076").PN. OR ("8328208").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/04/28 11:18 PM
L453	1	("D593459").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/04/28 11:25 PM
L454	3861	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:51 AM
L455	2688	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:51 AM
L456	5586	L454 or L455	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:51 AM
L457	969007	@pd>="20190415"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 12:57 AM
L458	58	L456 and L457	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2019/08/23 12:59 AM

			JPO)				
L459	27	("20040189076"|"20050029855"|"20110175306"|"20170247044"|"20170361861"|"4577355"|"5240265"|"5246272"|"5669625"|"5681084"|"5749627"|"5806877"|"6322097"|"6530591"|"6676140"|"6830254"|"6951342"|"8070180"|"8172322"|"8596670"|"8616638"|"8690250"|"8899615"|"8991929"|"9227650"|"9868456"|"D811949").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/08/23 01:02 AM
L460	167	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20130049331-$ or US-20160001805-$ or US-20040164593-$ or US-20070075525-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2019/08/23 01:02 AM

		6923467-$ or US- 6752405-$ or US- 8157273-$ or US- 7896384-$ or US- 7677585-$ or US- 8128103-$ or US- 7597332-$ or US- 7481439-$ or US- 6851693-$ or US- 5848797-$).did. or (US- 3000645-$ or US- 8070180-$ or US- 7832755-$ or US- 7261308-$ or US- 5704627-$ or US- 5794951-$ or US- 5647601-$ or US- 2453631-$ or US- 6443467-$ or US- 8205906-$ or US- 8262103-$ or US- 8336904-$ or US- 8371606-$ or US- 8251382-$ or US- 7377537-$ or US- 7320471-$ or US- 7032922-$ or US- 7367581-$ or US- 8029007-$ or US- 7699325-$ or US- 6827356-$ or US- 8398098-$ or US- 7766366-$ or US- 6286844-$ or US- 6513827-$ or US- 8764048-$ or US- 8061732-$).did. or (US- 8733784-$ or US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US- 8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US-				

		9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$).did. or (US- 9260127-$ or US- 8857830-$ or US- 2769482-$ or US- 4542915-$ or US- 6715783-$ or US- 9108654-$ or US- 9630642-$ or US- 9517787-$ or US- 9327752-$ or US- 6561526-$ or US- 8967171-$ or US- 9517789-$ or US- 9561817-$ or US- 5522121-$ or US- 9545941-$ or US- 9056622-$ or US- 9403550-$ or US- 8899615-$ or US- 7364183-$ or US- 9637155-$ or US- 9421992-$ or US- 9545940-$ or US- 9346378-$ or US- 8678498-$ or US- 4915446-$ or US- 4634177-$ or US- 4306749-$).did. or (US- 8851505-$ or US- 8651502-$ or US- 6893040-$ or US- 6446990-$ or US- 5865447-$ or US- 5772279-$ or US- 5567008-$ or US- 8657326-$ or US- 8491000-$ or US- 6155740-$ or US- 5947555-$ or US- 7267359-$ or US- 9776652-$ or US- 9771095-$ or US- 9725106-$ or US- 9701333-$ or US- 8585075-$ or US- 8596670-$ or US- 9956979-$ or US- 9944305-$ or US- 9924806-$ or US- 9884640-$ or US- 9849903-$ or US- 9840168-$ or US- 10207731-$ or US-				

		10023218-$ or US-6938906-$).did. or (US-D593459-$ or US-D621306-$ or US-8328208-$ or US-7513512-$).did. or (US-3000645-$ or US-2453631-$ or US-1707186-$).did.					
L461	22	L459 not L460	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2019/08/23 01:02 AM
L462	1	("6676140").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2019/08/23 01:04 AM
L464	4053	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 08:49 PM
L465	2834	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 08:49 PM
L466	5847	L464 or L465	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 08:49 PM
L467	1751101	@pd>="20190823"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 09:02 PM
L468	97	L466 and L467	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/02/28 09:02 PM
L469	97	("1239498" | "1322788" | "1418929" | "1832770" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20080224451" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/02/28 09:03 PM

		"20110115264" | "20120080244" | "20120181779" | "20130154215" | "20140191483" | "20150021872" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6877762" | "6935652" | "6938906" | "6981709" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128118" | "8128119" | "8157273" | "8262107" | "8276935" | "8882134" | "9056622" | "9260127" | "D326748" | "D431798").PN. OR ("10556610").URPN.					
L470	21	("20100140902" | "20130087993" | "20130154241" | "20150159414" | "20160046315" | "7789402" | "7832755" | "8033554" | "8231136" | "8602441" | "8905427" | "8955869" | "8967647" | "9050987" | "9399477" | "9403550" | "9493179" | "9517787" | "9616912" | "9637154" | "D747669").PN. OR ("10449987").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/02/28 10:17 PM
L471	1	("20180201293").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/02/28 10:19 PM
L472	7365969	@ad<="20081204"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/03/01 11:01 PM

L473	172	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20130049331-$ or US-20160001805-$ or US-20040164593-$ or US-20070075525-$).did. or (US-20130087993-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/03/01 11:02 PM

		5704627-$ or US- 5794951-$ or US- 5647601-$ or US- 2453631-$ or US- 6443467-$ or US- 8205906-$ or US- 8262103-$ or US- 8336904-$ or US- 8371606-$ or US- 8251382-$ or US- 7377537-$ or US- 7320471-$ or US- 7032922-$ or US- 7367581-$ or US- 8029007-$ or US- 7699325-$ or US- 6827356-$ or US- 8398098-$ or US- 7766366-$ or US- 6286844-$ or US- 6513827-$ or US- 8764048-$ or US- 8061732-$).did. or (US- 8733784-$ or US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US- 8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US- 9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$).did. or (US- 9260127-$ or US- 8857830-$ or US- 2769482-$ or US- 4542915-$ or US- 6715783-$ or US- 9108654-$ or US- 9630642-$ or US- 9517787-$ or US-				

		9327752-$ or US-6561526-$ or US-8967171-$ or US-9517789-$ or US-9561817-$ or US-5522121-$ or US-9545941-$ or US-9056622-$ or US-9403550-$ or US-8899615-$ or US-7364183-$ or US-9637155-$ or US-9421992-$ or US-9545940-$ or US-9346378-$ or US-8678498-$ or US-4915446-$ or US-4634177-$ or US-4306749-$).did. or (US-8851505-$ or US-8651502-$ or US-6893040-$ or US-6446990-$ or US-5865447-$ or US-5772279-$ or US-5567008-$ or US-8657326-$ or US-8491000-$ or US-6155740-$ or US-5947555-$ or US-7267359-$ or US-9776652-$ or US-9771095-$ or US-9725106-$ or US-9701333-$ or US-8585075-$ or US-8596670-$ or US-9956979-$ or US-9944305-$ or US-9924806-$ or US-9884640-$ or US-9849903-$ or US-9840168-$ or US-10207731-$ or US-10023218-$ or US-6938906-$).did. or (US-D593459-$ or US-D621306-$ or US-8328208-$ or US-7513512-$ or US-10293843-$ or US-10556611-$ or US-10556610-$ or US-10449987-$).did. or (US-3000645-$ or US-2453631-$ or US-1707186-$).did.					

L474	94	L472 and L473	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/03/01 11:02 PM
L475	15	"37454081".FMID.	(US-PGPUB; USPAT; FPRS; JPO)	OR	ON	ON	2020/03/01 11:04 PM
L476	16	("2010/0072732").URPN.	(USPAT)	OR	ON	ON	2020/03/01 11:07 PM
L484	1	("10730543").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/10 02:15 PM
L485	0	("202000223470").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/10 02:16 PM
L486	1	("20200223470").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/10 02:16 PM
L487	41	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 02:19 PM
L488	4211	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:24 PM
L489	2957	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:24 PM
L490	6047	L488 or L489	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:24 PM
L491	1552888	@pd>="20200228"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:24 PM
L492	69	L490 and L491	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2020/09/10 02:34 PM
L493	98	("10023218" | "10207731" | "10293843" | "10449987" | "10556610" | "1707186" | "20010033069" | "20020109321" | "20030025304" | "20060001226" | "20060131841" | "20060290107" | "20070001429" | "20070085303" | "20070090619" | "20070114738" | "20080224451" | "20080231022" | "20090302578" | "20100140902" | "20140191483" | "20140333039" | "20160046315" | "3000645" | "4542915" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 02:43 PM

		"5201535" | "5338096" | "5567008" | "6045145" | "6209892" | "6286844" | "6378892" | "6443467" | "6513827" | "6561526" | "6676140" | "6752405" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7401803" | "7475900" | "7481439" | "7497461" | "7677585" | "7681894" | "7766366" | "7832755" | "7896384" | "7938435" | "8029007" | "8029014" | "8033554" | "8061732" | "8157273" | "8231136" | "8251382" | "8262103" | "8336904" | "8444171" | "8458880" | "8585075" | "8596670" | "8696016" | "8733784" | "8764048" | "8882134" | "8905427" | "8936261" | "9010773" | "9108654" | "9108659" | "9119483" | "9199659" | "9200746" | "9227650" | "9242665" | "9260127" | "9260128" | "9517787" | "9561817" | "9701333" | "9725106" | "9771095" | "9776652" | "9840168" | "9849903" | "9884640" | "9924806" | "9944305" | "9956979" | "D593459").PN. OR ("10730543").URPN.					
L494	45	(Baby near2 Jogger).AS.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 02:47 PM
L495	173	(US-20100052277-$ or US-20070114738-$ or US-20070001429-$ or US-20060290107-$ or US-20030075903-$ or US-20080303232-$ or US-20070085303-$ or US-20060131841-$ or US-20060001226-$ or US-20080224451-$ or US-20010033069-$ or US-20030025304-$ or US-20070187914-$ or US-20070069505-$ or US-20080231022-$ or US-20100301585-$ or US-20100013281-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 02:56 PM

		US-20150360709-$ or US-20070069504-$ or US-20100072732-$ or US-20090302578-$ or US-20130113188-$ or US-20130049331-$ or US-20160001805-$ or US-20040164593-$ or US-20070075525-$).did. or (US-20130087993-$).did. or (US-5338096-$ or US-6045145-$ or US-3223431-$ or US-6378892-$ or US-5653460-$ or US-6209892-$ or US-5201535-$ or US-4620711-$ or US-6676140-$ or US-6017051-$ or US-1707186-$ or US-7475900-$ or US-7938435-$ or US-D508443-$ or US-7497461-$ or US-4570956-$ or US-6923467-$ or US-6752405-$ or US-8157273-$ or US-7896384-$ or US-7677585-$ or US-8128103-$ or US-7597332-$ or US-7481439-$ or US-6851693-$ or US-5848797-$).did. or (US-3000645-$ or US-8070180-$ or US-7832755-$ or US-7261308-$ or US-5704627-$ or US-5794951-$ or US-5647601-$ or US-2453631-$ or US-6443467-$ or US-8205906-$ or US-8262103-$ or US-8336904-$ or US-8371606-$ or US-8251382-$ or US-7377537-$ or US-7320471-$ or US-7032922-$ or US-7367581-$ or US-8029007-$ or US-7699325-$ or US-6827356-$ or US-					

		8398098-$ or US- 7766366-$ or US- 6286844-$ or US- 6513827-$ or US- 8764048-$ or US- 8061732-$).did. or (US- 8733784-$ or US- 8696016-$ or US- 8231136-$ or US- 8458880-$ or US- 7249779-$ or US- 7311323-$ or US- 8444171-$ or US- 8033554-$ or US- 7681894-$ or US- 8955869-$ or US- 8905427-$ or US- 8882134-$ or US- 8029014-$ or US- 7789402-$ or US- 7658399-$ or US- 5167425-$ or US- 8936261-$ or US- 9010773-$ or US- 9119483-$ or US- 9200746-$ or US- 9199659-$ or US- 9108659-$ or US- 9073563-$ or US- 9242665-$ or US- 7401803-$ or US- 9227650-$ or US- 9260128-$).did. or (US- 9260127-$ or US- 8857830-$ or US- 2769482-$ or US- 4542915-$ or US- 6715783-$ or US- 9108654-$ or US- 9630642-$ or US- 9517787-$ or US- 9327752-$ or US- 6561526-$ or US- 8967171-$ or US- 9517789-$ or US- 9561817-$ or US- 5522121-$ or US- 9545941-$ or US- 9056622-$ or US- 9403550-$ or US- 8899615-$ or US- 7364183-$ or US- 9637155-$ or US- 9421992-$ or US- 9545940-$ or US- 9346378-$ or US- 8678498-$ or US- 4915446-$ or US-					

		4634177-$ or US-4306749-$).did. or (US-8851505-$ or US-8651502-$ or US-6893040-$ or US-6446990-$ or US-5865447-$ or US-5772279-$ or US-5567008-$ or US-8657326-$ or US-8491000-$ or US-6155740-$ or US-5947555-$ or US-7267359-$ or US-9776652-$ or US-9771095-$ or US-9725106-$ or US-9701333-$ or US-8585075-$ or US-8596670-$ or US-9956979-$ or US-9944305-$ or US-9924806-$ or US-9884640-$ or US-9849903-$ or US-9840168-$ or US-10207731-$ or US-10023218-$ or US-6938906-$).did. or (US-D593459-$ or US-D621306-$ or US-8328208-$ or US-7513512-$ or US-10293843-$ or US-10556611-$ or US-10556610-$ or US-10449987-$ or US-10730543-$).did. or (US-3000645-$ or US-2453631-$ or US-1707186-$).did.					
L496	84	("1707186"|"20010033069"|"20020109321"|"20030025304"|"20060001226"|"20060131841"|"20060290107"|"20070001429"|"20070085303"|"20070090619"|"20070114738"|"20080224451"|"20080231022"|"20090302578"|"20140191483"|"20160046315"|"3000645"|"4542915"|"5201535"|"5338096"|"5567008"|"6045145"|"6209892"|"6286844"|"6378892"|"6443467"|"6513827"|"6	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 02:57 PM

		561526"|"6676140"|"67 52405"|"6851693"|"692 3467"|"7249779"|"7311 323"|"7320471"|"73675 81"|"7377537"|"740180 3"|"7475900"|"7481439" |"7497461"|"7677585"|" 7681894"|"7766366"|"7 832755"|"7896384"|"79 38435"|"8029007"|"802 9014"|"8033554"|"8061 732"|"8157273"|"82311 36"|"8251382"|"826210 3"|"8336904"|"8444171" |"8458880"|"8585075"|" 8596670"|"8696016"|"8 733784"|"8764048"|"88 82134"|"8905427"|"893 6261"|"9010773"|"9108 654"|"9108659"|"91194 83"|"9199659"|"920074 6"|"9227650"|"9242665" |"9260127"|"9260128"|" 9517787"|"9561817"|"9 701333"|"9725106"|"97 71095"|"9776652").PN.					
L497	4	L496 not L495	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 02:58 PM
L499	84	("1707186"|"200100330 69"|"20020109321"|"20 030025304"|"20060001 226"|"20060131841"|"2 0060290107"|"2007000 1429"|"20070085303"|" 20070090619"|"200701 14738"|"20080224451"| "20080231022"|"20090 302578"|"20140191483 "|"20160046315"|"3000 645"|"4542915"|"52015 35"|"5338096"|"556700 8"|"6045145"|"6209892" |"6286844"|"6378892"|" 6443467"|"6513827"|"6 561526"|"6676140"|"67 52405"|"6851693"|"692 3467"|"7249779"|"7311 323"|"7320471"|"73675 81"|"7377537"|"740180 3"|"7475900"|"7481439" |"7497461"|"7677585"|" 7681894"|"7766366"|"7 832755"|"7896384"|"79 38435"|"8029007"|"802 9014"|"8033554"|"8061 732"|"8157273"|"82311 36"|"8251382"|"826210	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2020/09/10 09:06 PM

		3"|"8336904"|"8444171"|"8458880"|"8585075"|"8596670"|"8696016"|"8733784"|"8764048"|"8882134"|"8905427"|"8936261"|"9010773"|"9108654"|"9108659"|"9119483"|"9199659"|"9200746"|"9227650"|"9242665"|"9260127"|"9260128"|"9517787"|"9561817"|"9701333"|"9725106"|"9771095"|"9776652").PN.					
L500	41	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 11:39 PM
L501	10	(Lee near2 (Jon and Hee)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 11:43 PM
L502	25	(Roe near2 Megan).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/10 11:56 PM
L503	5	(Simpson near2 (Stacy and Noel)).in.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2020/09/11 12:00 AM
L504	1	("7475900").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/15 03:29 PM
L505	1	("9260127").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2020/09/15 11:58 PM
L506	4378	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:36 PM
L507	3086	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:36 PM
L508	6262	L506 or L507	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:36 PM
L509	2515828	@pd>="20200910"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:47 PM
L510	120	L508 and L509	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/04/11 11:48 PM
L511	1	("6286844").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/04/22 11:33 AM
L512	1	("10730543").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/04/22 12:44 PM
L513	4404	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:37 PM
L514	3109	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2021/07/02 08:37 PM

			JPO)				
L515	6295	L513 or L514	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:37 PM
L516	184287	@pd>="20210411"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:37 PM
L517	15	L515 and L516	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/07/02 08:38 PM
L518	12	"22994051".FMID.	(US-PGPUB; USPAT; FPRS; JPO)	OR	ON	ON	2021/07/02 08:52 PM
L522	4494	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:57 PM
L523	3202	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:57 PM
L524	6428	L522 or L523	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:57 PM
L525	81312	@pd>="20210702"	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:58 PM
L526	6	L524 and L525	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/08/11 03:58 PM
L527	427	("10000226" | "10023218" | "10077063" | "10144442" | "10150496" | "10155528" | "10239550" | "10414423" | "10442453" | "10449987" | "10556610" | "20020041082" | "20030094791" | "20040090046" | "20050150053" | "20050167951" | "20050225056" | "20050242548" | "20050264064" | "20070013167" | "20070031224" | "20070045975" | "20070085303" | "20070108710" | "20070126195" | "20070187914" | "20070241524" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/08/11 03:59 PM

		"20080079240" | "20080093825" | "20080211206" | "20080224450" | "20080231023" | "20090194973" | "20090206566" | "20090295128" | "20090315299" | "20100038887" | "20100052277" | "20100109293" | "20100127480" | "20100140902" | "20100230933" | "20100237637" | "20110012324" | "20110062676" | "20110148076" | "20110163519" | "20110181024" | "20110193325" | "20110221169" | "20110266762" | "20110272925" | "20110291388" | "20110291389" | "20110309658" | "20120242062" | "20130113185" | "20130153616" | "20130154215" | "20130154322" | "20130227817" | "20130270800" | "20140044472" | "20140054939" | "20140056638" | "20140167393" | "20140183843" | "20140191483" | "20150021872" | "20150042075" | "20150074947" | "20150076774" | "20150108738" | "20150136553" | "20150152665" | "20150158334" | "20150197268" | "20150274188" | "20150291200" | "20150375766" | "20160001804" | "20160046314" | "20160159385" | "20160288814" | "20160332655" |				

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		"6793292" | "6830260" | "6851700" | "6863286" | "6869096" | "6896286" | "6908087" | "6983986" | "6991248" | "7017937" | "7032922" | "7044497" | "7059452" | "7070197" | "7083175" | "7118121" | "7188858" | "7210699" | "7213818" | "7232019" | "7267359" | "7278652" | "7281732" | "7338122" | "7367581" | "7370913" | "7377537" | "7383925" | "7396039" | "7401803" | "7404569" | "7410186" | "7445228").PN. OR ("7455336" | "7475900" | "7497449" | "7497461" | "7500692" | "7537093" | "7550692" | "7566068" | "7597396" | "7600775" | "7614641" | "7618093" | "7632035" | "7658399" | "7677590" | "7681894" | "7686322" | "7686323" | "7694980" | "7694995" | "7712765" | "7753398" | "7766366" | "7766367" | "7780183" | "7784801" | "7798500" | "7798515" | "7832755" | "7871099" | "7871100" | "7900952" | "7909353" | "7918001" | "7922182" | "7946650" | "7971884" | "7971897" | "7971933" | "8033555" | "8056975" | "8061732" | "8087680" | "8087688" | "8092111" | "8100429" | "8157273" | "8162025" | "8172243" | "8172253" | "8186705" | "8205906" | "8205907" | "8220118" | "8226110" | "8226111" | "8231136" | "8240700" | "8251382" | "8262103" | "8276935" | "8282120" | "8291555" | "8313115" | "8316999" | "8322744" | "8366127" | "8371606" | "8376375" | "8382127" | "8382150" | "8388254" | "8393679" | "8398096" | "8398111" | "8398143" | "8414012" | "8418816" | "8444170" | "8448977" | "8458880" | "8459665"				

| "8474836" | "8474854"
| "8485546" | "8490757"
| "8491000" | "8505956"
| "8517412" | "8550489"
| "8556780" | "8567311"
| "8567866" | "8585063"
| "8585075" | "8590919"
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| "8616638" | "8635743"
| "8646158" | "8651502"
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| "8662516" | "8672341"
| "8678498" | "8696015"
| "8702118" | "8708364"
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| "8905427" | "8905428"
| "8919806" | "8919807"
| "8936261" | "8955856"
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| "8973217" | "8985616"
| "8991838" | "8991853"
| "8991854" | "8997948"
| "9010773" | "9044104"
| "9050993" | "9067613"
| "9085312" | "9090125"
| "9108658" | "9108659"
| "9139044" | "9150236"
| "9174662" | "9193370"
| "9193373" | "9205855"
| "9216755" | "9260127"
| "9260128" | "9327752"
| "9399477" | "9403449"
| "9403549" | "9403550"
| "9415790" | "9428208"
| "9463822" | "9481206"
| "9493178" | "9517786"
| "9517789" | "9522615"
| "9540028" | "9545940"
| "9545941" | "9561816"
| "9610966" | "9630642"
| "9637153" | "9643640"
| "9701332" | "9725107"
| "9776652" | "9796404"
| "9815487" | "9821831"
| "9840168" | "9849903"
| "9862401" | "9884640"
| "9902417" | "9908551"
| "9944305" | "9950730"
| "9962011" | "D576084"

		| "D643344" | "D643345" | "D643346" | "D643786" | "D683974" | "D699633" | "D716705" | "D756852").PN. OR ("11059510").URPN.					
L528	2	("20130270800" | "8157273").PN. OR ("11052933").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/08/11 04:01 PM
L529	2	("20130270800" | "8157273").PN. OR ("11052933").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/08/11 04:03 PM
L530	2	"49324395".FMID.	(US-PGPUB; USPAT; FPRS; JPO)	OR	ON	ON	2021/08/11 04:04 PM
L531	21	("0522608" | "0677195" | "0720692" | "3997180" | "4620686" | "7364183" | "7475900" | "8157273" | "8398143" | "8444171" | "8596670" | "D598333").PN. OR ("8844964").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/08/11 04:05 PM
L532	1	("20200385045").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2021/10/13 12:35 AM
L533	111	500 501 502 503 494	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2021/10/13 09:34 AM
L534	3	500 501 502 503 494	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	AND	ON	ON	2021/10/13 09:35 AM

			AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)				
L535	92	500 501 502 503	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2021/10/13 09:36 AM
L536	19	533 NOT 535	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2021/10/13 09:36 AM
L537	12	"57325932".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2021/10/13 09:38 AM

L538	6	"38367586".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2021/10/14 09:55 AM
L539	30	("3145442" | "5865447" | "5947555" | "6446314" | "7032922" | "20040164593").pn. OR ("7681894").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/14 09:56 AM
L540	3527	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:06 AM
L541	4425	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:06 AM
L542	819242	@pd>="20210811"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:06 AM
L543	6717	(B62B7/008,00,006,14,142,145).CPC.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2021/10/14 11:14 AM

			JPO)				
L544	6006	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:14 AM
L545	10662	544 543	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2021/10/14 11:14 AM
L546	2061	544 543	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	AND	ON	ON	2021/10/14 11:14 AM
L547	36	545 AND 542	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	AND	ON	ON	2021/10/14 11:15 AM

			NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)				
L548	10	("20100244408" | "20110012324" | "20110241313" | "20150259005" | "20180027989" | "20190256120" | "20190320812" | "20190320814" | "20190322304" | "20200239058").pn. OR ("11091186").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2021/10/14 11:27 AM
L549	1	("7475900").pn.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2021/10/14 09:17 PM
L550	67	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:23 AM
L551	6	(Simpson near2 (Stacy AND Noel)).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:23 AM
L552	29	(Roe near2 Megan).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2021/10/15 09:24 AM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)				
L553	18	(Lee near2 (Jon AND Hee)).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:24 AM
L554	92	550 551 552 553	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:25 AM
L555	6	550 551 552 553	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	AND	ON	ON	2021/10/15 09:25 AM
L556	49	(Baby near2 Jogger).AS.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2021/10/15 09:26 AM

			AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)				
L557	167	545 AND (seat near2 (attach$4 AND convert$4))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:43 AM
L558	405	545 AND ((double OR tandem) SAME stroller)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:45 AM
L559	115914245	@ad<="20081204"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:46 AM
L560	3529	545 AND 559	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:46 AM
L561	146	560 AND ((double OR tandem) SAME stroller)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2021/10/15 09:46 AM
L562	10	("6595583" | "7559606" | "7681894" | "8033555").pn. OR ("8313115").urpn. AND	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/15 09:49 AM

		(PGPB | USPT | USOC).dbnm.					
L563	1	"52582129".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2021/10/15 11:58 AM
L564	1	("2015/0061249").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/15 11:58 AM
L565	4853	545 AND 559	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/02/02 05:41 PM
L566	2093553	@pd>="20211015"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/02/02 05:42 PM
L567	0	565 AND 566	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2022/02/02 05:42 PM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)				
L568	73	545 AND 566	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/02/02 05:42 PM
L569	1	("6286844").pn.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2022/02/02 05:45 PM
L570	12	("4805938" | "5653460" | "5848797" | "6540239" | "6938906" | "6981709" | "7597332" | "9056622" | "9283978" | "9771095" | "20070001410" | "20100072731").pn. OR ("11220282").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2022/02/02 06:03 PM
L571	228	((US-20100052277-A1 OR US-20070114738-A1 OR US-20070001429-A1 OR US-20060290107-A1 OR US-20030075903-A1 OR US-20080303232-A1 OR US-20070085303-A1 OR US-20060131841-A1 OR US-20060001226-A1 OR US-20080224451-A1 OR US-20010033069-A1 OR US-20030025304-A1 OR US-20070187914-A1 OR US-20070069505-A1 OR US-20080231022-A1 OR US-20100301585-A1	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2022/02/02 06:32 PM

		OR US-20100013281-A1 OR US-20150360709-A1 OR US-20070069504-A1 OR US-20100072732-A1 OR US-20090302578-A1 OR US-20130113188-A1 OR US-20090243261-A1 OR US-20130049331-A1 OR US-20160001805-A1 OR US-20040164593-A1 OR US-20070075525-A1 OR US-20130087993-A1 OR US-20140191483-A1 OR US-20070090619-A1 OR US-20020109321-A1 OR US-20100140902-A1 OR US-20180229750-A1 OR US-20170158219-A1 OR US-20160075363-A1 OR US-20150061249-A1 OR US-20120228843-A1 OR US-20080179848-A1 OR US-20080150247-A1 OR US-20050006864-A1).did. AND PGPB.dbnm.) OR ((US-5338096-A OR US-6045145-A OR US-3223431-A OR US-6378892-B1 OR US-5653460-A OR US-6209892-B1 OR US-5201535-A OR US-4620711-A OR US-6676140-B1 OR US-6017051-A OR US-1707186-A OR US-7475900-B2 OR US-7938435-B2 OR US-D508443-S OR US-7497461-B2 OR US-4570956-A OR US-6923467-B2 OR US-6752405-B1 OR US-8157273-B2 OR US-7896384-B2 OR US-7677585-B2 OR US-8128103-B1 OR US-7597332-B2 OR US-7481439-B2 OR US-					

		6851693-B2 OR US- 5848797-A OR US- 3000645-A OR US- 8070180-B2 OR US- 7832755-B2 OR US- 7261308-B2 OR US- 5704627-A OR US- 5794951-A OR US- 5647601-A OR US- 2453631-A OR US- 6443467-B1 OR US- 8205906-B2 OR US- 8262103-B2 OR US- 8336904-B2 OR US- 8371606-B2 OR US- 8251382-B2 OR US- 7377537-B2 OR US- 7320471-B2 OR US- 7032922-B1 OR US- 7367581-B2 OR US- 8029007-B2 OR US- 7699325-B2 OR US- 6827356-B2 OR US- 8398098-B2 OR US- 7766366-B2 OR US- 6286844-B1 OR US- 6513827-B1 OR US- 8764048-B1 OR US- 8061732-B2 OR US- 8733784-B2 OR US- 8696016-B2 OR US- 8231136-B2 OR US- 8458880-B2 OR US- 7249779-B2 OR US- 7311323-B1 OR US- 8444171-B2 OR US- 8033554-B2 OR US- 7681894-B2 OR US- 8955869-B2 OR US- 8905427-B2 OR US- 8882134-B2 OR US- 8029014-B2 OR US- 7789402-B2 OR US- 7658399-B2 OR US- 5167425-A OR US- 8936261-B2 OR US- 9010773-B2 OR US- 9119483-B1 OR US- 9200746-B2 OR US- 9199659-B2 OR US- 9108659-B2 OR US- 9073563-B2 OR US- 9242665-B2 OR US- 7401803-B1 OR US- 9227650-B2 OR US- 9260128-B2 OR US- 9260127-B2 OR US- 8857830-B2 OR US-				

		2769482-A OR US- 4542915-A OR US- 6715783-B1 OR US- 9108654-B2 OR US- 9630642-B2 OR US- 9517787-B2 OR US- 9327752-B2 OR US- 6561526-B1 OR US- 8967171-B2 OR US- 9517789-B2 OR US- 9561817-B2 OR US- 6447001-B1 OR US- 5522121-A OR US- 9545941-B2 OR US- 9056622-B2 OR US- 9403550-B2 OR US- 8899615-B2 OR US- 7364183-B2 OR US- 9637155-B1 OR US- 9421992-B2 OR US- 9545940-B2 OR US- 9346378-B2 OR US- 8678498-B2 OR US- 4915446-A OR US- 4634177-A OR US- 4306749-A OR US- 8851505-B2 OR US- 8651502-B2 OR US- 6893040-B2 OR US- 6446990-B1 OR US- 5865447-A OR US- 5772279-A OR US- 5567008-A OR US- 8657326-B2 OR US- 8491000-B2 OR US- 6155740-A OR US- 5947555-A OR US- 7267359-B1 OR US- 9776652-B2 OR US- 9771095-B2 OR US- 9725106-B2 OR US- 9701333-B2 OR US- 8585075-B2 OR US- 8596670-B2 OR US- 9956979-B1 OR US- 9944305-B2 OR US- 9924806-B2 OR US- 9884640-B2 OR US- 9849903-B1 OR US- 9840168-B2 OR US- 10207731-B2 OR US- 10023218-B2 OR US- 6938906-B1 OR US- D593459-S OR US- D621306-S OR US- 8328208-B2 OR US- 7513512-B2 OR US- 10293843-B2 OR US-				

		10556611-B2 OR US-10556610-B2 OR US-10449987-B2 OR US-10730543-B2 OR US-10926785-B2 OR US-10899377-B2 OR US-10974754-B2 OR US-10994763-B2 OR US-11001289-B2 OR US-11059510-B2 OR US-11052933-B2 OR US-8844964-B2 OR US-6086087-A OR US-9643640-B2 OR US-9616912-B2 OR US-9283978-B2 OR US-9050987-B2 OR US-9004524-B1 OR US-8857829-B2 OR US-8807588-B2 OR US-8708364-B2 OR US-8684395-B2 OR US-8602441-B2 OR US-8505958-B2 OR US-8480115-B2 OR US-8322745-B2 OR US-6585284-B2 OR US-6267406-B1 OR US-11091186-B2 OR US-11052934-B2 OR US-10960913-B2 OR US-8313115-B2 OR US-10322739-B2 OR US-7971897-B2 OR US-7614640-B2 OR US-8205894-B2 OR US-6981709-B2 OR US-6935652-B2 OR US-3998490-A OR US-11220282-B2 OR US-11208136-B2 OR US-11208135-B2 OR US-11203371-B2 OR US-11192568-B2).did. AND USPT.dbnm.) OR ((US-3000645-A OR US-2453631-A OR US-1707186-A).did. AND USOC.dbnm.) OR ((US-20050006864-A1).did. AND DWPI.dbnm.)					
L572	9	571 AND (central$ near2 wheel)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/02/02 06:32 PM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)				
L573	1	("20200385045").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/03 10:10 AM
L574	11	"51060413".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	OFF	OFF	2022/02/03 12:40 PM
L575	19	"46172541".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	OFF	OFF	2022/02/03 12:46 PM
L576	1	(D593459).pn.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/03 01:26 PM
L577	13	("10449987"|"10556610"|"10899377"|"11091186"|"6267406"|"6286844"|"6513827"|"7377537"|"7475900"|"7971897"|"8313115"|"8602441"|"D593459").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/02/03 01:28 PM
L578	2332892	@pd>="20220202"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2022/06/15 12:13 PM

			MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)				
L579	11186	544 543	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2022/06/15 12:14 PM
L580	126	579 AND 578	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/06/15 12:14 PM
L581	14	("292933" | "329579" | "4953887" | "6676140" | "8070180" | "8128103" | "8152177" | "8186705" | "8596670" | "8915516" | "9511789" | "10077063" | "20070001429" | "20100283227" | "20150217792" | "20150232114").pn. OR ("11338836").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 12:24 PM
L582	101	("1239498" | "1322788" | "1418929" | "1832770" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "D326748"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 12:25 PM

		| "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "D431798" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6877762" | "6935652" | "6938906" | "6981709" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128118" | "8128119" | "8157273" | "8262107" | "8276935" | "8882134" | "9056622" | "9260127" | "10556610" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20080224451" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100066058" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110012325" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20120181779" | "20130154215" | "20140191483" | "20150021872" |					

		"20160159385").pn. OR ("11292499").urpn. AND (PGPB | USPT | USOC).dbnm.					
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		"11059510" | "20010033069" | "20020109321" | "20030025304" | "20060001226" | "20060131841" | "20060290107" | "20070001429" | "20070085303" | "20070090619" | "20070114738" | "20080224451" | "20080231022" | "20090302578" | "20100140902" | "20140191483" | "20140333039" | "20160046315").pn. OR ("11192568").urpn. AND (PGPB | USPT | USOC).dbnm.					
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		OR US-20030075903-A1 OR US-20080303232-A1 OR US-20070085303-A1 OR US-20060131841-A1 OR US-20060001226-A1 OR US-20080224451-A1 OR US-20010033069-A1 OR US-20030025304-A1 OR US-20070187914-A1 OR US-20070069505-A1 OR US-20080231022-A1 OR US-20100301585-A1 OR US-20100013281-A1 OR US-20150360709-A1 OR US-20070069504-A1 OR US-20100072732-A1 OR US-20090302578-A1 OR US-20130113188-A1 OR US-20090243261-A1 OR US-20130049331-A1 OR US-20160001805-A1 OR US-20040164593-A1 OR US-20070075525-A1 OR US-20130087993-A1 OR US-20140191483-A1 OR US-20070090619-A1 OR US-20020109321-A1 OR US-20100140902-A1 OR US-20180229750-A1 OR US-20170158219-A1 OR US-20160075363-A1 OR US-20150061249-A1 OR US-20120228843-A1 OR US-20080179848-A1 OR US-20080150247-A1 OR US-20050006864-A1).did. AND PGPB.dbnm.) OR ((US-5338096-A OR US-6045145-A OR US-3223431-A OR US-6378892-B1 OR US-5653460-A OR US-6209892-B1 OR US-5201535-A OR US-4620711-A OR US-	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		6676140-B1 OR US- 6017051-A OR US- 1707186-A OR US- 7475900-B2 OR US- 7938435-B2 OR US- D508443-S OR US- 7497461-B2 OR US- 4570956-A OR US- 6923467-B2 OR US- 6752405-B1 OR US- 8157273-B2 OR US- 7896384-B2 OR US- 7677585-B2 OR US- 8128103-B1 OR US- 7597332-B2 OR US- 7481439-B2 OR US- 6851693-B2 OR US- 5848797-A OR US- 3000645-A OR US- 8070180-B2 OR US- 7832755-B2 OR US- 7261308-B2 OR US- 5704627-A OR US- 5794951-A OR US- 5647601-A OR US- 2453631-A OR US- 6443467-B1 OR US- 8205906-B2 OR US- 8262103-B2 OR US- 8336904-B2 OR US- 8371606-B2 OR US- 8251382-B2 OR US- 7377537-B2 OR US- 7320471-B2 OR US- 7032922-B1 OR US- 7367581-B2 OR US- 8029007-B2 OR US- 7699325-B2 OR US- 6827356-B2 OR US- 8398098-B2 OR US- 7766366-B2 OR US- 6286844-B1 OR US- 6513827-B1 OR US- 8764048-B1 OR US- 8061732-B2 OR US- 8733784-B2 OR US- 8696016-B2 OR US- 8231136-B2 OR US- 8458880-B2 OR US- 7249779-B2 OR US- 7311323-B1 OR US- 8444171-B2 OR US- 8033554-B2 OR US- 7681894-B2 OR US- 8955869-B2 OR US- 8905427-B2 OR US- 8882134-B2 OR US- 8029014-B2 OR US-				

		7789402-B2 OR US- 7658399-B2 OR US- 5167425-A OR US- 8936261-B2 OR US- 9010773-B2 OR US- 9119483-B1 OR US- 9200746-B2 OR US- 9199659-B2 OR US- 9108659-B2 OR US- 9073563-B2 OR US- 9242665-B2 OR US- 7401803-B1 OR US- 9227650-B2 OR US- 9260128-B2 OR US- 9260127-B2 OR US- 8857830-B2 OR US- 2769482-A OR US- 4542915-A OR US- 6715783-B1 OR US- 9108654-B2 OR US- 9630642-B2 OR US- 9517787-B2 OR US- 9327752-B2 OR US- 6561526-B1 OR US- 8967171-B2 OR US- 9517789-B2 OR US- 9561817-B2 OR US- 6447001-B1 OR US- 5522121-A OR US- 9545941-B2 OR US- 9056622-B2 OR US- 9403550-B2 OR US- 8899615-B2 OR US- 7364183-B2 OR US- 9637155-B1 OR US- 9421992-B2 OR US- 9545940-B2 OR US- 9346378-B2 OR US- 8678498-B2 OR US- 4915446-A OR US- 4634177-A OR US- 4306749-A OR US- 8851505-B2 OR US- 8651502-B2 OR US- 6893040-B2 OR US- 6446990-B1 OR US- 5865447-A OR US- 5772279-A OR US- 5567008-A OR US- 8657326-B2 OR US- 8491000-B2 OR US- 6155740-A OR US- 5947555-A OR US- 7267359-B1 OR US- 9776652-B2 OR US- 9771095-B2 OR US- 9725106-B2 OR US- 9701333-B2 OR US-				

		8585075-B2 OR US- 8596670-B2 OR US- 9956979-B1 OR US- 9944305-B2 OR US- 9924806-B2 OR US- 9884640-B2 OR US- 9849903-B1 OR US- 9840168-B2 OR US- 10207731-B2 OR US- 10023218-B2 OR US- 6938906-B1 OR US- D593459-S OR US- D621306-S OR US- 8328208-B2 OR US- 7513512-B2 OR US- 10293843-B2 OR US- 10556611-B2 OR US- 10556610-B2 OR US- 10449987-B2 OR US- 10730543-B2 OR US- 10926785-B2 OR US- 10899377-B2 OR US- 10974754-B2 OR US- 10994763-B2 OR US- 11001289-B2 OR US- 11059510-B2 OR US- 11052933-B2 OR US- 8844964-B2 OR US- 6086087-A OR US- 9643640-B2 OR US- 9616912-B2 OR US- 9283978-B2 OR US- 9050987-B2 OR US- 9004524-B1 OR US- 8857829-B2 OR US- 8807588-B2 OR US- 8708364-B2 OR US- 8684395-B2 OR US- 8602441-B2 OR US- 8505958-B2 OR US- 8480115-B2 OR US- 8322745-B2 OR US- 6585284-B2 OR US- 6267406-B1 OR US- 11091186-B2 OR US- 11052934-B2 OR US- 10960913-B2 OR US- 8313115-B2 OR US- 10322739-B2 OR US- 7971897-B2 OR US- 7614640-B2 OR US- 8205894-B2 OR US- 6981709-B2 OR US- 6935652-B2 OR US- 3998490-A OR US- 11220282-B2 OR US- 11208136-B2 OR US- 11208135-B2 OR US-				

		11203371-B2 OR US-11192568-B2 OR US-11338836-B2 OR US-11292499-B2).did. AND USPT.dbnm.) OR ((US-3000645-A OR US-2453631-A OR US-1707186-A).did. AND USOC.dbnm.) OR ((US-20050006864-A1).did. AND DWPI.dbnm.)					
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L589	6	"53797406".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/06/15 02:05 PM
L590	85	("4542915" | "4725071" | "D321850" | "5338096" | "5417449" | "D359937" | "D375706" | "5664795" | "6086087" | "D429664" | "D430076" | "D431212" | "6267406" | "6676140" | "6702316" | "6843498" | "6877761" | "7451999" | "7699325" | "D636300" | "7971884" | "8070180" | "8146926" | "8157273" | "8205894" | "8282109" | "8322745" | "8398143" | "8444171" | "8480115" | "8684395" | "8714582" | "8757646" | "8807588" | "8844964" | "8857829" | "8905427" | "8915516" | "20030020259" | "20040094935" | "20060226635" | "20060290107" | "20070075525" | "20070085303" | "20070114738" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 02:06 PM

		"20070267833" | "20080001370" | "20080179863" | "20080224432" | "20090039620" | "20090236826" | "20090302578" | "20100038886" | "20100038887" | "20100072731" | "20100140902" | "20100201089" | "20100282800" | "20100301585" | "20110175330" | "20120098219" | "20120098237" | "20120169021" | "20130049331" | "20130234419" | "20130264787" | "20130270800" | "20140159346" | "20140312586" | "20140346756").pn. OR ("9227650").urpn. AND (PGPB | USPT | USOC).dbnm.					
L591	102	("119331" | "1138802" | "1269379" | "1707186" | "1890469" | "3223431" | "3612603" | "3726536" | "4222132" | "4349938" | "4391453" | "4403807" | "4684148" | "4725071" | "D296540" | "4805938" | "D300310" | "4834415" | "4834452" | "4858947" | "4872692" | "D305316" | "4969656" | "5018754" | "5033761" | "D321850" | "5064209" | "D328047" | "5167425" | "5221106" | "5230523" | "D348489" | "5338096" | "D360392" | "D370437" | "D382516" | "5653460" | "5664795" | "5772235" | "D404344" | "5887935" | "5918892" | "6086087" | "6099022" | "D430512" | "D431212" | "6267406" | "D452191" | "6357784" | "6361111" | "6375213" | "6431579" | "6527294" | "6536842" | "6585284" | "6676140" | "6679506" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 09:09 PM

		"6752405" | "6843498" | "6935652" | "6938906" | "6938954" | "7025364" | "7364183" | "D568794" | "7367581" | "7516966" | "D593458" | "D595621" | "D598333" | "7597332" | "7896384" | "8128103" | "8157273" | "8398143" | "20040251063" | "20070045975" | "20090115151" | "20090160162" | "20100038887" | "20100140902" | "20110175330").pn. OR ("8905427").urpn. AND (PGPB | USPT | USOC).dbnm.					
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L593	14	("2009/0302578").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/15 09:20 PM
L594	1	("20200385045").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/22 12:25 PM
L595	52	(Baby near2 Jogger).AS.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/23 03:30 PM
L596	95	550 551 552 553	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2022/09/23 03:30 PM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)				
L597	670	545 AND 542	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	AND	ON	ON	2022/09/23 03:52 PM
L598	1304890	@pd>="20220615"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 03:53 PM
L599	75	597 AND 598	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 03:53 PM

L600	31	("10449987"|"10556610"|"10899377"|"11091186"|"11192568"|"11203371"|"11208135"|"11208136"|"11220282"|"11292499"|"11338836"|"20060290107"|"5167425"|"5338096"|"5988670"|"6045145"|"6086087"|"6267406"|"6286844"|"6513827"|"7377537"|"7475900"|"7563170"|"7938435"|"7971897"|"8313115"|"8602441"|"9403550"|"D429476"|"D430076"|"D593459").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 03:54 PM
L601	232	((US-20100052277-A1 OR US-20070114738-A1 OR US-20070001429-A1 OR US-20060290107-A1 OR US-20030075903-A1 OR US-20080303232-A1 OR US-20070085303-A1 OR US-20060131841-A1 OR US-20060001226-A1 OR US-20080224451-A1 OR US-20010033069-A1 OR US-20030025304-A1 OR US-20070187914-A1 OR US-20070069505-A1 OR US-20080231022-A1 OR US-20100301585-A1 OR US-20100013281-A1 OR US-20150360709-A1 OR US-20070069504-A1 OR US-20100072732-A1 OR US-20090302578-A1 OR US-20130113188-A1 OR US-20090243261-A1 OR US-20130049331-A1 OR US-20160001805-A1 OR US-20040164593-A1 OR US-20070075525-A1 OR US-20130087993-A1 OR US-20140191483-A1 OR US-20070090619-A1 OR US-20020109321-A1	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/23 03:54 PM

		OR US-20100140902-A1 OR US-20180229750-A1 OR US-20170158219-A1 OR US-20160075363-A1 OR US-20150061249-A1 OR US-20120228843-A1 OR US-20080179848-A1 OR US-20080150247-A1 OR US-20050006864-A1 OR US-20150232114-A1).did. AND PGPB.dbnm.) OR ((US-5338096-A OR US-6045145-A OR US-3223431-A OR US-6378892-B1 OR US-5653460-A OR US-6209892-B1 OR US-5201535-A OR US-4620711-A OR US-6676140-B1 OR US-6017051-A OR US-1707186-A OR US-7475900-B2 OR US-7938435-B2 OR US-D508443-S OR US-7497461-B2 OR US-4570956-A OR US-6923467-B2 OR US-6752405-B1 OR US-8157273-B2 OR US-7896384-B2 OR US-7677585-B2 OR US-8128103-B1 OR US-7597332-B2 OR US-7481439-B2 OR US-6851693-B2 OR US-5848797-A OR US-3000645-A OR US-8070180-B2 OR US-7832755-B2 OR US-7261308-B2 OR US-5704627-A OR US-5794951-A OR US-5647601-A OR US-2453631-A OR US-6443467-B1 OR US-8205906-B2 OR US-8262103-B2 OR US-8336904-B2 OR US-8371606-B2 OR US-8251382-B2 OR US-7377537-B2 OR US-7320471-B2 OR US-7032922-B1 OR US-					

		7367581-B2 OR US- 8029007-B2 OR US- 7699325-B2 OR US- 6827356-B2 OR US- 8398098-B2 OR US- 7766366-B2 OR US- 6286844-B1 OR US- 6513827-B1 OR US- 8764048-B1 OR US- 8061732-B2 OR US- 8733784-B2 OR US- 8696016-B2 OR US- 8231136-B2 OR US- 8458880-B2 OR US- 7249779-B2 OR US- 7311323-B1 OR US- 8444171-B2 OR US- 8033554-B2 OR US- 7681894-B2 OR US- 8955869-B2 OR US- 8905427-B2 OR US- 8882134-B2 OR US- 8029014-B2 OR US- 7789402-B2 OR US- 7658399-B2 OR US- 5167425-A OR US- 8936261-B2 OR US- 9010773-B2 OR US- 9119483-B1 OR US- 9200746-B2 OR US- 9199659-B2 OR US- 9108659-B2 OR US- 9073563-B2 OR US- 9242665-B2 OR US- 7401803-B1 OR US- 9227650-B2 OR US- 9260128-B2 OR US- 9260127-B2 OR US- 8857830-B2 OR US- 2769482-A OR US- 4542915-A OR US- 6715783-B1 OR US- 9108654-B2 OR US- 9630642-B2 OR US- 9517787-B2 OR US- 9327752-B2 OR US- 6561526-B1 OR US- 8967171-B2 OR US- 9517789-B2 OR US- 9561817-B2 OR US- 6447001-B1 OR US- 5522121-A OR US- 9545941-B2 OR US- 9056622-B2 OR US- 9403550-B2 OR US- 8899615-B2 OR US- 7364183-B2 OR US- 9637155-B1 OR US-				

		9421992-B2 OR US- 9545940-B2 OR US- 9346378-B2 OR US- 8678498-B2 OR US- 4915446-A OR US- 4634177-A OR US- 4306749-A OR US- 8851505-B2 OR US- 8651502-B2 OR US- 6893040-B2 OR US- 6446990-B1 OR US- 5865447-A OR US- 5772279-A OR US- 5567008-A OR US- 8657326-B2 OR US- 8491000-B2 OR US- 6155740-A OR US- 5947555-A OR US- 7267359-B1 OR US- 9776652-B2 OR US- 9771095-B2 OR US- 9725106-B2 OR US- 9701333-B2 OR US- 8585075-B2 OR US- 8596670-B2 OR US- 9956979-B1 OR US- 9944305-B2 OR US- 9924806-B2 OR US- 9884640-B2 OR US- 9849903-B1 OR US- 9840168-B2 OR US- 10207731-B2 OR US- 10023218-B2 OR US- 6938906-B1 OR US- D593459-S OR US- D621306-S OR US- 8328208-B2 OR US- 7513512-B2 OR US- 10293843-B2 OR US- 10556611-B2 OR US- 10556610-B2 OR US- 10449987-B2 OR US- 10730543-B2 OR US- 10926785-B2 OR US- 10899377-B2 OR US- 10974754-B2 OR US- 10994763-B2 OR US- 11001289-B2 OR US- 11059510-B2 OR US- 11052933-B2 OR US- 8844964-B2 OR US- 6086087-A OR US- 9643640-B2 OR US- 9616912-B2 OR US- 9283978-B2 OR US- 9050987-B2 OR US- 9004524-B1 OR US- 8857829-B2 OR US-				

		8807588-B2 OR US-8708364-B2 OR US-8684395-B2 OR US-8602441-B2 OR US-8505958-B2 OR US-8480115-B2 OR US-8322745-B2 OR US-6585284-B2 OR US-6267406-B1 OR US-11091186-B2 OR US-11052934-B2 OR US-10960913-B2 OR US-8313115-B2 OR US-10322739-B2 OR US-7971897-B2 OR US-7614640-B2 OR US-8205894-B2 OR US-6981709-B2 OR US-6935652-B2 OR US-3998490-A OR US-11220282-B2 OR US-11208136-B2 OR US-11208135-B2 OR US-11203371-B2 OR US-11192568-B2 OR US-11338836-B2 OR US-11292499-B2 OR US-10077063-B2).did. AND USPT.dbnm.) OR ((US-3000645-A OR US-2453631-A OR US-1707186-A).did. AND USOC.dbnm.) OR ((US-20050006864-A1).did. AND DWPI.dbnm.)					
L602	104	600 NOT 601	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/23 03:54 PM
L603	11	("6209892" | "6250653" | "9849903" | "9944305" | "10207731" | "10449987" | "10899377" | "20100013281" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 03:58 PM

		"20120169021" | "20140345980" | "20160016601").pn. OR ("11370468").urpn. AND (PGPB | USPT | USOC).dbnm.					
L604	3	"47750100".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/09/23 04:06 PM
L605	11	"66397144".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/09/23 04:07 PM
L606	22	("6086086" | "6209892" | "8061732" | "8474854" | "8696016" | "9085312" | "9399477" | "20010013689" | "20020005628" | "20030201617" | "20070194545" | "20100127480" | "20100230933" | "20100244408" | "20100259021" | "20110298198" | "20130087993" | "20150042056" | "20160046315" | "20170313339").pn. OR ("10899377").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:07 PM
L607	1	("7475900").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:08 PM

L608	48	("5333893" | "D429664" | "D430076" | "6209892" | "6513827" | "6863286" | "7032922" | "7367581" | "7377537" | "20030111825").pn. OR ("7475900").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:09 PM
L609	114	("1707186" | "3000645" | "4542915" | "5201535" | "5338096" | "5567008" | "6045145" | "6086087" | "6209892" | "6267406" | "6286844" | "6378892" | "6443467" | "6513827" | "6561526" | "6585284" | "6676140" | "6752405" | "6851693" | "6923467" | "7249779" | "7311323" | "7320471" | "7367581" | "7377537" | "7401803" | "7475900" | "7481439" | "7497461" | "D593459" | "7677585" | "7681894" | "7766366" | "7832755" | "7896384" | "7938435" | "8029007" | "8029014" | "8033554" | "8061732" | "8157273" | "8231136" | "8251382" | "8262103" | "8322745" | "8336904" | "8444171" | "8458880" | "8480115" | "8505952" | "8585075" | "8596670" | "8602441" | "8696016" | "8733784" | "8764048" | "8844964" | "8882134" | "8905427" | "8936261" | "9010773" | "9108654" | "9108659" | "9119483" | "9199659" | "9200746" | "9227650" | "9242665" | "9260127" | "9260128" | "9517787" | "9561817" | "9701333" | "9725106" | "9771095" | "9776652" | "9840168" | "9849903" | "9884640" | "9924806" | "9944305" | "9956979" | "10023218" | "10207731" | "10293843" | "10449987" | "10556610" | "10730543" | "10899377" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:17 PM

		"10926785" | "10974754" | "10994763" | "11001289" | "11052933" | "11059510" | "20010033069" | "20020109321" | "20030025304" | "20060001226" | "20060131841" | "20060290107" | "20070001429" | "20070085303" | "20070090619" | "20070114738" | "20080224451" | "20080231022" | "20090302578" | "20100140902" | "20140191483" | "20140333039" | "20160046315").pn. OR ("11192568").urpn. AND (PGPB | USPT | USOC).dbnm.					
L610	108	("1239498" | "1322788" | "1418929" | "1832770" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "D326748" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "D431798" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6877762" | "6935652" | "6938906" | "6981709" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179" | "8128118" | "8128119" | "8157273" | "8262107" | "8276935" | "8882134" | "9056622" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:18 PM

		"20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20080224451" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215" | "20140191483").pn. OR ("9260127").urpn. AND (PGPB | USPT | USOC).dbnm.					
L611	109	("1239498" | "1322788" | "1418929" | "1832770" | "3173396" | "3831960" | "4310167" | "4433869" | "4893826" | "4936629" | "5022669" | "D326748" | "5158319" | "5301968" | "5417449" | "5556118" | "5581843" | "5653460" | "5664795" | "5722594" | "6086087" | "D431798" | "6135222" | "6267406" | "6312005" | "6394470" | "6454286" | "6540239" | "6698788" | "6702306" | "6935652" | "6938906" | "7059625" | "7261308" | "7338122" | "7481439" | "7497449" | "7559606" | "7597332" | "7740313" | "7770970" | "7780184" | "7789413" | "7832756" | "7854435" | "7887129" | "7891732" | "7938433" | "7971897" | "7992889" | "8029007" | "8070179"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:26 PM

		| "8128119" | "8157273" | "8262107" | "8276935" | "20020125662" | "20040011884" | "20050253348" | "20050253431" | "20050264064" | "20060290107" | "20070001410" | "20070075510" | "20070114738" | "20070257526" | "20080042476" | "20090072520" | "20090302556" | "20090302578" | "20100032925" | "20100072731" | "20100109270" | "20100109293" | "20100140902" | "20100148553" | "20100314925" | "20110074195" | "20110101742" | "20110115264" | "20120080244" | "20130154215").pn. OR ("8882134").urpn. AND (PGPB | USPT | USOC).dbnm.					
L612	28	("7789402" | "7832755" | "8033554" | "8231136" | "8602441" | "8905427" | "8967647" | "9050987" | "8955869" | "D747669" | "9399477" | "9403550" | "9493179" | "9517787" | "9616912" | "9637154" | "20100140902" | "20130087993" | "20130154241" | "20150159414" | "20160046315").pn. OR ("10449987").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:31 PM
L613	4	"35160119".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	OR	ON	ON	2022/09/23 04:50 PM

			NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)				
L614	25	("2006/0290107").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 04:50 PM
L615	11538	544 543	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:10 PM
L616	75	615 AND 598	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:10 PM
L617	2793	615 AND (fold$ SAME pivot$)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:10 PM
L618	610	615 AND (fold$ near2 pivot$)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2022/09/23 05:10 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)				
L619	26	601 AND (fold$ near2 pivot$)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2022/09/23 05:11 PM
L620	62	("2986400" | "4216974" | "4294464" | "4544178" | "4614454" | "4834403" | "5257799" | "6086086" | "6095548" | "6102431" | "6102432" | "6105998" | "6270111" | "6869096" | "6991248" | "7077420" | "7185909" | "7237795" | "7296820" | "7396039" | "7404569" | "7614641" | "7632035" | "7712765" | "7798500" | "7798515" | "7832755" | "7832756" | "8087689" | "8205907" | "8251382" | "8444170" | "20060038378" | "20060082104" | "20070063487" | "20070075525" | "20070096434").pn. OR ("8714581").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/23 05:27 PM
L621	30	("10449987" OR "10556610" OR "10899377" OR "11091186" OR "11192568" OR "11203371" OR "11208135" OR	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 10:54 AM

		"11208136" OR "11220282" OR "11292499" OR "11338836" OR "5167425" OR "5338096" OR "5988670" OR "6045145" OR "6086087" OR "6267406" OR "6286844" OR "6513827" OR "7377537" OR "7475900" OR "7563170" OR "7938435" OR "7971897" OR "8313115" OR "8602441" OR "9403550" OR "D429476" OR "D430076" OR "D593459").pn.					
L622	240	((US-20100052277-A1 OR US-20070114738-A1 OR US-20070001429-A1 OR US-20060290107-A1 OR US-20030075903-A1 OR US-20080303232-A1 OR US-20070085303-A1 OR US-20060131841-A1 OR US-20060001226-A1 OR US-20080224451-A1 OR US-20010033069-A1 OR US-20030025304-A1 OR US-20070187914-A1 OR US-20070069505-A1 OR US-20080231022-A1 OR US-20100301585-A1 OR US-20100013281-A1 OR US-20150360709-A1 OR US-20070069504-A1 OR US-20100072732-A1 OR US-20090302578-A1 OR US-20130113188-A1 OR US-20090243261-A1 OR US-20130049331-A1 OR US-20160001805-A1 OR US-20040164593-	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/29 10:59 AM

		A1 OR US-20070075525-A1 OR US-20130087993-A1 OR US-20140191483-A1 OR US-20070090619-A1 OR US-20020109321-A1 OR US-20100140902-A1 OR US-20180229750-A1 OR US-20170158219-A1 OR US-20160075363-A1 OR US-20150061249-A1 OR US-20120228843-A1 OR US-20080179848-A1 OR US-20080150247-A1 OR US-20050006864-A1 OR US-20150232114-A1).did. AND PGPB.dbnm.) OR ((US-5338096-A OR US-6045145-A OR US-3223431-A OR US-6378892-B1 OR US-5653460-A OR US-6209892-B1 OR US-5201535-A OR US-4620711-A OR US-6676140-B1 OR US-6017051-A OR US-1707186-A OR US-7475900-B2 OR US-7938435-B2 OR US-D508443-S OR US-7497461-B2 OR US-4570956-A OR US-6923467-B2 OR US-6752405-B1 OR US-8157273-B2 OR US-7896384-B2 OR US-7677585-B2 OR US-8128103-B1 OR US-7597332-B2 OR US-7481439-B2 OR US-6851693-B2 OR US-5848797-A OR US-3000645-A OR US-8070180-B2 OR US-7832755-B2 OR US-7261308-B2 OR US-5704627-A OR US-5794951-A OR US-5647601-A OR US-2453631-A OR US-6443467-B1 OR US-8205906-B2 OR US-					

		8262103-B2 OR US- 8336904-B2 OR US- 8371606-B2 OR US- 8251382-B2 OR US- 7377537-B2 OR US- 7320471-B2 OR US- 7032922-B1 OR US- 7367581-B2 OR US- 8029007-B2 OR US- 7699325-B2 OR US- 6827356-B2 OR US- 8398098-B2 OR US- 7766366-B2 OR US- 6286844-B1 OR US- 6513827-B1 OR US- 8764048-B1 OR US- 8061732-B2 OR US- 8733784-B2 OR US- 8696016-B2 OR US- 8231136-B2 OR US- 8458880-B2 OR US- 7249779-B2 OR US- 7311323-B1 OR US- 8444171-B2 OR US- 8033554-B2 OR US- 7681894-B2 OR US- 8955869-B2 OR US- 8905427-B2 OR US- 8882134-B2 OR US- 8029014-B2 OR US- 7789402-B2 OR US- 7658399-B2 OR US- 5167425-A OR US- 8936261-B2 OR US- 9010773-B2 OR US- 9119483-B1 OR US- 9200746-B2 OR US- 9199659-B2 OR US- 9108659-B2 OR US- 9073563-B2 OR US- 9242665-B2 OR US- 7401803-B1 OR US- 9227650-B2 OR US- 9260128-B2 OR US- 9260127-B2 OR US- 8857830-B2 OR US- 2769482-A OR US- 4542915-A OR US- 6715783-B1 OR US- 9108654-B2 OR US- 9630642-B2 OR US- 9517787-B2 OR US- 9327752-B2 OR US- 6561526-B1 OR US- 8967171-B2 OR US- 9517789-B2 OR US- 9561817-B2 OR US- 6447001-B1 OR US-				

		5522121-A OR US- 9545941-B2 OR US- 9056622-B2 OR US- 9403550-B2 OR US- 8899615-B2 OR US- 7364183-B2 OR US- 9637155-B1 OR US- 9421992-B2 OR US- 9545940-B2 OR US- 9346378-B2 OR US- 8678498-B2 OR US- 4915446-A OR US- 4634177-A OR US- 4306749-A OR US- 8851505-B2 OR US- 8651502-B2 OR US- 6893040-B2 OR US- 6446990-B1 OR US- 5865447-A OR US- 5772279-A OR US- 5567008-A OR US- 8657326-B2 OR US- 8491000-B2 OR US- 6155740-A OR US- 5947555-A OR US- 7267359-B1 OR US- 9776652-B2 OR US- 9771095-B2 OR US- 9725106-B2 OR US- 9701333-B2 OR US- 8585075-B2 OR US- 8596670-B2 OR US- 9956979-B1 OR US- 9944305-B2 OR US- 9924806-B2 OR US- 9884640-B2 OR US- 9849903-B1 OR US- 9840168-B2 OR US- 10207731-B2 OR US- 10023218-B2 OR US- 6938906-B1 OR US- D593459-S OR US- D621306-S OR US- 8328208-B2 OR US- 7513512-B2 OR US- 10293843-B2 OR US- 10556611-B2 OR US- 10556610-B2 OR US- 10449987-B2 OR US- 10730543-B2 OR US- 10926785-B2 OR US- 10899377-B2 OR US- 10974754-B2 OR US- 10994763-B2 OR US- 11001289-B2 OR US- 11059510-B2 OR US- 11052933-B2 OR US- 8844964-B2 OR US-				

		6086087-A OR US-9643640-B2 OR US-9616912-B2 OR US-9283978-B2 OR US-9050987-B2 OR US-9004524-B1 OR US-8857829-B2 OR US-8807588-B2 OR US-8708364-B2 OR US-8684395-B2 OR US-8602441-B2 OR US-8505958-B2 OR US-8480115-B2 OR US-8322745-B2 OR US-6585284-B2 OR US-6267406-B1 OR US-11091186-B2 OR US-11052934-B2 OR US-10960913-B2 OR US-8313115-B2 OR US-10322739-B2 OR US-7971897-B2 OR US-7614640-B2 OR US-8205894-B2 OR US-6981709-B2 OR US-6935652-B2 OR US-3998490-A OR US-11220282-B2 OR US-11208136-B2 OR US-11208135-B2 OR US-11203371-B2 OR US-11192568-B2 OR US-11338836-B2 OR US-11292499-B2 OR US-10077063-B2 OR US-11370468-B2 OR US-8714581-B2 OR US-4216974-A OR US-4544178-A OR US-4834403-A OR US-6102431-A OR US-6102432-A OR US-6991248-B2).did. AND USPT.dbnm.) OR ((US-3000645-A OR US-2453631-A OR US-1707186-A).did. AND USOC.dbnm.) OR ((US-20050006864-A1).did. AND DWPI.dbnm.)					
L623	26	622 AND 621	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 11:00 AM
L624	4	621 NOT 622	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/29 11:00 AM
L625	1	("20100013281").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/29 11:34 AM

L626	1	("20230065661").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/09/07 11:00 PM
L627	63	(Baby near2 Jogger).AS.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/08 12:02 AM
L628	84	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/08 12:03 AM
L629	7822	(B62B7/008,00,006,14, 142,145).CPC.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2023/09/08 12:18 AM
L630	7381	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO,	OR	ON	ON	2023/09/08 12:18 AM

			MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)				
L631	6996106	@pd>="20220923"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2023/09/08 12:19 AM
L632	12521	629 630	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2023/09/08 12:19 AM
L633	443	631 AND 632	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2023/09/08 12:19 AM
L634	24	("6267406" | "6286844" | "6513827" | "7377537" | "7475900" | "D593459" | "7971897" | "8313115" | "8602441" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/09/08 12:22 AM

		"10449987" | "10556610" | "10899377" | "11091186" | "11192568" | "11203371" | "11208135" | "11208136" | "11220282" | "11292499" | "11338836" | "11370468" | "11505231" | "11572093" | "11577771").pn. OR ("11731682").urpn. AND (PGPB | USPT | USOC).dbnm.					
L635	48	("4216974" | "4544178" | "5167425" | "5338096" | "5988670" | "6045145" | "6086087" | "D429476" | "D430076" | "6102431" | "6102432" | "6209892" | "6267406" | "6286844" | "6513827" | "6991248" | "7377537" | "7475900" | "D593459" | "7563170" | "7938435" | "7971897" | "8313115" | "8602441" | "9403550" | "9840168" | "9849903" | "9884640" | "9924806" | "9944305" | "9956979" | "10207731" | "10449987" | "10556610" | "10899377" | "11091186" | "11192568" | "11203371" | "11208135" | "11208136" | "11220282" | "11292499" | "11338836" | "11370468" | "11505231" | "20060290107" | "20100013281").pn. OR ("11577771").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/09/08 12:23 AM
L636	48	("4216974" | "4544178" | "5167425" | "5338096" | "5988670" | "6045145" | "6086087" | "D429476"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/09/08 12:24 AM

		| "D430076" | "6102431" | "6102432" | "6209892" | "6267406" | "6286844" | "6513827" | "6991248" | "7377537" | "7475900" | "D593459" | "7563170" | "7938435" | "7971897" | "8313115" | "8602441" | "9403550" | "9840168" | "9849903" | "9884640" | "9924806" | "9944305" | "9956979" | "10207731" | "10449987" | "10556610" | "10899377" | "11091186" | "11192568" | "11203371" | "11208135" | "11208136" | "11220282" | "11292499" | "11338836" | "11370468" | "20060290107" | "20100013281").pn. OR ("11505231").urpn. AND (PGPB | USPT | USOC).dbnm.					
L637	46	("10207731" OR "10449987" OR "10556610" OR "10899377" OR "11091186" OR "11192568" OR "11203371" OR "11208135" OR "11208136" OR "11220282" OR "11292499" OR "11338836" OR "11370468" OR "20060290107" OR "20100013281" OR "4216974" OR "4544178" OR "5167425" OR "5338096" OR "5988670" OR "6045145" OR "6086087" OR "6102431" OR "6102432" OR "6209892" OR "6267406" OR "6286844" OR	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/08 12:25 AM

		"6513827" OR "6991248" OR "7377537" OR "7475900" OR "7563170" OR "7938435" OR "7971897" OR "8313115" OR "8602441" OR "9403550" OR "9840168" OR "9849903" OR "9884640" OR "9924806" OR "9944305" OR "9956979" OR "D429476" OR "D430076" OR "D593459").pn.					
L638	0	("20230371642").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2023/09/08 02:36 PM
L639	1	("11505231").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2023/09/08 02:37 PM
L640	1	("20230382447").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/24 09:47 PM
L641	67	(Baby near2 Jogger).AS.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2024/02/24 10:16 PM
L642	86	(Zehfuss near2 Mark).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT)	OR	ON	ON	2024/02/24 10:16 PM
L643	8010	(B62B7/008,00,006,14,	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/24

		142,145).CPC.	USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)				10:16 PM
L644	7630	(B62B9/12,28,102).CPC.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO)	OR	ON	ON	2024/02/24 10:16 PM
L645	2967797	@pd>="20230908"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2024/02/24 10:17 PM
L646	12844	643 OR 644	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2024/02/24 10:17 PM

			WO); FPRS; EPO; JPO)				
L647	205	645 AND 646	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2024/02/24 10:17 PM
L648	2	645 AND 642	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2024/02/24 10:17 PM
L649	52	("4216974" | "4544178" | "5167425" | "5338096" | "5988670" | "6045145" | "6086087" | "D429476" | "D430076" | "6102431" | "6102432" | "6209892" | "6267406" | "6286844" | "6513827" | "6991248" | "7377537" | "7475900" | "D593459" | "7563170" | "7938435" | "7971897" | "8313115" | "8602441" | "9403550" | "9840168" | "9849903" | "9884640" | "9924806" | "9944305" | "9956979" | "10207731" | "10449987" | "10556610" | "10899377" | "11091186" | "11192568" | "11203371" | "11208135" | "11208136" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/24 10:18 PM

		"11220282" | "11292499" | "11338836" | "11370468" | "11505231" | "11577771" | "11654949" | "11731680" | "11731681" | "11731682" | "20060290107" | "20100013281").pn. OR ("11878729").urpn. AND (PGPB | USPT | USOC).dbnm.					
L650	1	645 AND 641	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO)	OR	ON	ON	2024/02/24 10:19 PM
L651	6	("4725071" | "8157273" | "20090278335" | "20130270800" | "20140183843" | "20150048599").pn. OR ("11827265").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/24 10:24 PM
L652	1	("7475900").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/24 10:27 PM
L653	8	("8371606" OR "9004524" OR "9643640" OR "5417449" OR "5653460" OR "5794951" OR "6585284" OR "D360392").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/24 10:41 PM
L654	27	("D321850" | "2443236" | "2993702" | "3612603" | "4542915" | "5018754" | "5184835").pn. OR ("D360392").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/24 10:41 PM
L655	49	("4542915" | "4854607"	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/24

		| "4986564" | "5033761").pn. OR ("5653460").urpn. AND (PGPB | USPT | USOC).dbnm.	USOCR)				10:46 PM
L656	63	("D311363" | "2857953" | "4542915" | "4858947" | "5018754" | "5221106").pn. OR ("5417449").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/02/24 10:49 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N163	0	(A seat attachment for a stroller, comprising a separate left attachment portion, wherein the left attachment portion comprises a connector portion capable of removably connecting to a stroller frame adjacent a left front wheel of the stroller and a left seat support element removably connecting a seat in either a forward or backward position and a separate right attachment portion, wherein the right attachment portion comprises a connector portion capable of removably connecting to the stroller frame adjacent a right front wheel of the stroller and a right seat support element removably connecting the seat in either a forward or backward position between the left and right seat support elements).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/03 05:17 PM
N164	0	(seat attachment stroller separate left right attachment portion connector portion removably connecting	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/04 09:35 AM

		frame adjacent front wheel seat support element removably connecting seat forward backward position).clm.					
N165	0	(seat attach$4 stroller separate left right portion connect$4 remov$4 frame adjacent front wheel support$4 element forward backward position).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/04 09:46 AM
N166	1	(seat attach$4 stroller separate left right connect$4 remov$4 frame wheel support$4).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/04 09:46 AM
N167	19	(seat attach$4 stroller left right connect$4 remov$4 frame wheel).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/02/04 09:47 AM
N213	0	(A seat attachment for a stroller, comprising a separate left attachment portion, wherein the left attachment portion comprises a connector portion capable of removably connecting to a stroller frame adjacent a left front wheel of the stroller and a left seat support element removably connecting a seat in either a forward or backward position and a separate right attachment portion, wherein the right attachment portion comprises a connector portion capable of removably connecting to the stroller frame adjacent a right front wheel of the stroller and a right seat support element removably connecting the seat in either a forward or backward position between the left and right seat support elements).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:26 PM

N214	1	(seat attach$4 stroller separate left right connect$4 remov$4 frame wheel support$4).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:26 PM
N215	19	(seat attach$4 stroller left right connect$4 remov$4 frame wheel).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:26 PM
N216	19	(seat$3 attach$4 stroller left right connect$4 remov$4 fram$3 wheel).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:29 PM
N217	68	(seat$3 attach$4 stroller connect$4 remov$4 fram$3 wheel).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2014/09/24 02:29 PM
N218	5	("20020036391" | "20070069505" | "20070187914" | "4753453" | "4779883").PN. OR ("8033554").URPN.	(US-PGPUB; USPAT)	OR	ON	ON	2014/09/24 02:32 PM
N248	4	(US-20070187914-$).did. or (US-7311323-$ or US-8444171-$ or US-8033554-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2015/04/20 02:14 PM
N411	0	(A stroller, comprising a stroller frame a plurality of wheels coupled to the stroller frame a first seat coupled to the stroller frame a first seat attachment housing disposed along a first portion of the stroller frame and comprising a first adapter receiving cavity extending through the first seat attachment housing and a first door rotatably coupled to the first seat attachment housing along a top end of the first adapter receiving cavity, wherein the first door rotates from a closed configuration, preventing access to the first adapter receiving cavity from a top side of the first seat attachment housing to an open configuration allowing access to the first adapter receiving	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 04:52 PM

		cavity from the top side of the first seat attachment housing a second seat attachment housing disposed along a second portion of the stroller frame and comprising a second adapter receiving cavity extending through the second seat attachment housing and a second door rotatably coupled to the second seat attachment housing along a second top end of the second adapter receiving cavity, wherein the second door rotates from a second closed configuration, preventing access to the second adapter receiving cavity from a top side of the second seat attachment housing, to a second open configuration allowing access to the second adapter receiving cavity from the top side of the second seat attachment housing a first removable seat attachment adapter removably coupled to the first seat attachment housing and a second removable seat attachment adapter removably coupled to the second seat attachment housing).CLM.					
N412	0	(stroller frame wheel seat attachment housing first adapter receiving cavity extending through housing first door rotatably coupled to housing closed configuration preventing access to cavity from top side open	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 04:55 PM

		configuration allowing access to cavity first removable seat attachment adapter removably coupled to housing and second removable seat attachment adapter removably coupled to housing).CLM.					
N413	1	(stroller frame wheel seat attach$4 hous$4 adapter receiv$4 cavity extend$4 door rotat$4 closed configuration prevent$4 access$4 open configuration allow$4 access).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 04:56 PM
N414	1	(stroller frame wheel seat attach$4 hous$4 adapter receiv$4 cavity door rotat$4 closed configuration prevent$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:21 PM
N415	1	(stroller wheel seat attach$4 hous$4 cavity door closed configuration prevent$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:22 PM
N416	1	(stroller wheel seat attach$4 hous$4 cavity door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:22 PM
N417	1	(stroller seat attach$4 hous$4 cavity door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:23 PM
N418	1	(stroller seat$3 attach$4 cavity door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:24 PM
N419	1	(stroller seat$3 cavity door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:24 PM
N420	3	(stroller seat$3 door clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:24 PM
N421	2	(stroller seat$3 cavit$3 clos$4 access$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:26 PM
N422	21	(stroller seat$3 cavit$3 clos$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2017/11/13 05:26 PM
N442	5	(US-20090243261-$).did. or (US-7938435-$ or US-6447001-$ or US-8585075-$ or US-8596670-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2019/04/15 11:03 AM
N463	2	(US-20090243261-	(US-PGPUB; USPAT)	OR	ON	ON	2019/08/23

		$).did. or (US-6447001-$).did.					01:02 AM
N477	2	(US-20090243261-$).did. or (US-6447001-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2020/03/01 11:02 PM
N478	0	(A stroller, comprising a stroller frame comprising a first upper tube support frame a second upper tube support frame a first front wheel support frame rotatable with respect to the first upper tube support frame a second front wheel support frame rotatable with respect to the second upper tube support frame a first back wheel support frame rotatable with respect to the first upper tube support frame a second back wheel support frame rotatable with respect to the second upper tube support frame a plurality of wheels comprising at least one front wheel and a plurality of back wheels a first seat coupled to the stroller frame at a first vertical position of the stroller frame a first seat attachment housing disposed along the first front wheel support frame a first seat attachment adapter removably coupled to the first seat attachment housing stroller frame at a second vertical position of the stroller frame that is below the first vertical position a second seat attachment housing disposed along the second front wheel support frame a second seat attachment adapter removably coupled to the second seat attachment	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:05 PM

		housing at a third vertical position of the stroller frame that is below the first vertical position wherein the first seat is coupled along the first upper tube support frame and the second upper tube support frame and wherein a second seat is removably coupled to the first seat attachment adapter and the second seat attachment adapter to position the second seat at a fourth vertical position that is below the first vertical position).CLM.					
N479	1	(stroller frame wheel first seat first vertical position attachment housing adapter removably coupled below).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:07 PM
N480	1	(stroller frame wheel seat vertical position attach$4 hous$4 adapt$4 remov$4 coupl$4 below).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:10 PM
N481	4	(stroller frame wheel seat attach$4 hous$4 adapt$4 remov$4 coupl$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:10 PM
N482	11	(stroller frame wheel seat attach$4 adapt$4 remov$4 coupl$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:11 PM
N483	33	(stroller frame wheel seat attach$4 adapt$4 remov$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2020/03/11 11:12 PM
N498	2	(US-20090243261-$).did. or (US-6447001-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2020/09/10 02:56 PM
N519	37	(stroller frame wheel seat attach$4 adapt$4 remov$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2021/07/02 08:50 PM
N520	37	(stroller frame wheel seat attach$4 adapt$4 remov$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2021/07/02 08:50 PM
N521	0	N519 not N520	(US-PGPUB; USPAT)	AND	ON	ON	2021/07/02 08:50 PM
N532	0	(A stroller, comprising a stroller frame	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/12 04:23 PM

		comprising a first upper tube support frame a second upper tube support frame a front wheel support frame rotatably adjusted to be substantially parallel with respect to the first upper tube support frame when the stroller frame is unfolded from a folded configuration a back wheel support frame rotatably adjusted to be substantially parallel with respect to the first upper tube support frame when the stroller frame is unfolded from a folded configuration a plurality of wheels comprising at least one front wheel and a plurality of back wheels a first seat coupled along the first upper tube support frame and the second upper tube support frame at a first vertical position of the stroller frame a first seat attachment adapter coupled to the front wheel support frame at a second vertical position of the stroller frame that is below the first vertical position a second seat attachment adapter coupled to the front wheel support frame at a third vertical position of the stroller frame that is below the first vertical position wherein a second seat is removably coupled to the first seat attachment adapter and the second seat attachment adapter to position the second seat at a fourth vertical position that is below the first vertical position).CLM.					
N533	0	(stroller frame wheel	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/12

		fold$4 seat$4 vertical$4 position$4 attach$4 adapter coupl$4).CLM.					04:31 PM
N534	0	(stroller fram$4 wheel fold$4 seat$4 vertical$4 position$4 attach$4 adapter).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/12 04:34 PM
N535	54	(stroller fram$4 wheel fold$4 seat$4 vertical$4 position$4).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/12 04:35 PM
N536	70	("4834415" | "4886289" | "5018754" | "5167425" | "5417449" | "5664795" | "5769448").PN. OR ("6086087").URPN.	(US-PGPUB; USPAT)	OR	ON	ON	2021/08/12 04:51 PM
N537	32	("20010013688" | "20030020259" | "20060226635" | "20060290107" | "20090039620" | "20100038886" | "20100078916" | "20100244393" | "3223431" | "4542915" | "4725071" | "4858947" | "4886289" | "5221106" | "5333893" | "5417449" | "5624152" | "5887935" | "6086087" | "6267406" | "6530591" | "6843498" | "6935652" | "7475900" | "D360392").PN. OR ("8602441").URPN.	(US-PGPUB; USPAT)	OR	ON	ON	2021/08/12 05:01 PM
N538	0	(A stroller, comprising: a stroller frame; a plurality of wheels comprising at least one central wheel AND a plurality of back wheels; a first seat coupled to the stroller frame at a first vertical position of the stroller frame AND configured to hold a first child in the stroller; a first seat attachment housing coupled to the stroller frame at a second vertical position of the stroller frame that is below the first vertical position, wherein a first front wheel extends from a front of the stroller; a second seat attachment housing	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/02 06:30 PM

		coupled to the stroller frame at a third vertical position of the stroller frame that is below the first vertical position, wherein a second front wheel extends from the front of the stroller; wherein a first seat attachment adapter is coupled to the first seat attachment housing AND wherein a second seat attachment adapter is coupled to the second seat attachment housing).CLM.					
N539	0	(stroller frame wheel central$ wheel back seat attach$ housing vertical position front wheel adapter coupled).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 08:56 AM
N540	0	(stroller frame wheel central$ back seat attach$ housing front adapter coupled).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 09:19 AM
N541	0	(stroller frame wheel central$ seat attach$ front adapter coupled).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 09:19 AM
N542	1	(stroller frame wheel central$ seat attach$ front adapter).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 09:19 AM
N543	34	(stroller frame wheel central$ seat attach$ front).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/02/03 09:19 AM
N544	0	(A stroller, comprising: a stroller frame; a plurality of wheels comprising a plurality of back wheels; a first seat coupled to the stroller frame at a first vertical position of the stroller frame a first seat attachment housing coupled to the stroller frame at a second vertical position of the stroller frame that is below the first vertical position, wherein a first front wheel extends from a front of the	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:34 PM

		stroller; a second seat attachment housing coupled to the stroller frame at a third vertical position of the stroller frame that is below the first vertical position, wherein a second front wheel extends from the front of the stroller; a first seat attachment adapter coupled to the first seat attachment housing; AND a second seat attachment adapter coupled to the second seat attachment housing).CLM.					
N545	0	(stroller frame wheel seat first vertical position first seat attachment housing below first front wheel extends from a front of the stroller second front wheel extend$ from front of stroller first seat attachment adapter coupl$ to first seat attachment housing).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:42 PM
N546	0	(stroller frame wheel seat first vertical position first seat attachment housing below first front wheel extends from front of stroller second front wheel extend$ from front of stroller first seat attachment adapter coupl$ to first seat attachment housing).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:43 PM
N547	2	(stroller frame wheel seat vertical$ position attach$ housing below front extend$ adapter coupl$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:48 PM
N548	5	(stroller frame wheel seat$ vertical$ position attach$ housing adapter coupl$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/06/15 12:53 PM
N549	0	(A stroller system for supporting a front stroller seat AND a rear	(US-PGPUB; USPAT)	AND	ON	ON	2022/09/29 11:48 AM

		stroller seat, the system comprising: a pair of rear wheels; a pair of front wheels; a frame including a handle portion, a rear wheel support portion, a front wheel support portion AND a folding mechanism connecting the front wheel support portion AND the handle portion in both an unfolded configuration AND in a folded configuration, wherein the folding mechanism connects the rear wheel support portion to the front wheel support portion AND the handle portion, wherein the frame includes a stroller seat support portion positioned at a first vertical position adjacent the handle portion, AND wherein the front wheel support portion AND the handle portion are substantially parallel when the frame is in the unfolded configuration; AND a front seat attachment configured for attachment to the front wheel support portion at a second vertical position substantially lower than the first vertical position, AND wherein the front seat attachment is configured to releasably connect to AND support the front stroller seat in either a forward-facing configuration OR a backward-facing configuration, AND wherein the front seat attachment is configured to support the front stroller seat substantially over the front wheels so that a center of gravity of the					

		stroller system is between the front wheels AND the rear wheels; wherein the rear wheel support portion extends diagonally from the front wheel support portion when the frame is in the unfolded configuration, AND the rear wheel support portion is disposed adjacent to both the front wheel support portion AND the handle portion when the frame is in the folded configuration; AND wherein the stroller seat support portion positioned at the first vertical position AND the front seat attachment at the second vertical position create an inline descending configuration of the rear stroller seat AND the front stroller seat).CLM.					
N550	0	(stroller front seat rear seat rear wheel front wheels frame handle support portion folding mechanism connecting support portion unfolded configuration folded configuration stroller seat support portion first vertical position adjacent handle portion substantially parallel front seat attachment second vertical position substantially lower than first vertical position releasably connect support forward-facing configuration backward-facing configuration over front wheels inline descending configuration of rear stroller seat front stroller seat).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/09/29 12:20 PM
N551	1	(stroller front seat$ rear	(US-PGPUB; USPAT)	AND	ON	ON	2022/09/29

		wheel frame handle support$ fold$ mechanism connect$ configuration vertical$ position$ attach$ releas$).CLM.					12:21 PM
N552	8	(stroller front seat$ rear wheel frame handle fold$ vertical$ position$ attach$ releas$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/09/29 12:21 PM
N553	12	(stroller front seat$ rear wheel frame handle fold$ vertical$ position$ attach$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/09/29 12:22 PM
N554	14	(stroller front seat$ rear wheel frame handle fold$ vertical$ attach$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/09/29 12:23 PM
N555	36	(stroller front seat$ rear wheel frame handle fold$ vertical$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2022/09/29 12:23 PM
N556	0	(A stroller system for supporting a front stroller seat AND a rear stroller seat, the system comprising: a pair of rear wheels; a pair of front wheels; a frame including a handle portion, a rear wheel support portion, a front wheel support portion, AND a folding mechanism connecting the front wheel support portion AND the handle portion in both an unfolded configuration AND in a folded configuration, wherein the frame includes a stroller seat support portion positioned at a first vertical position adjacent the handle portion, AND wherein the front wheel support portion AND the handle portion are substantially parallel when the frame is in the unfolded configuration; AND a front seat attachment configured for attachment to the front wheel support portion at	(US-PGPUB; USPAT)	AND	ON	ON	2023/09/08 01:01 AM

		a second vertical position substantially lower than the first vertical position, wherein the front seat attachment is configured to releasably connect to AND support the front stroller seat in either a forward-facing configuration OR a backward-facing configuration, wherein the front seat attachment is configured to support the front stroller seat substantially over the front wheels so that a center of gravity of the stroller system is between the front wheels AND the rear wheels; wherein the rear wheel support portion extends diagonally relative to the front wheel support portion when the frame is in the unfolded configuration, AND the rear wheel support portion is disposed adjacent to both the front wheel support portion AND the handle portion when the frame is in the folded configuration; AND wherein the stroller seat support portion positioned at the first vertical position AND the front seat attachment at the second vertical position create an inline descending configuration of the rear stroller seat AND the front stroller seat).CLM.					
N557	44	(stroller front seat$ rear wheel frame handle fold$ vertical$).CLM.	(US-PGPUB; USPAT)	AND	ON	ON	2023/09/09 05:43 PM

Bibliographic Data

Application No: 18/448,417

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /JAMES M DOLAK/ Examiner's Signature | Initials

Title: REMOVABLE SEAT ATTACHMENT FOR A STROLLER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
08/11/2023	280	3618	34757-2775
RULE			

APPLICANTS

Baby Jogger, LLC, Atlanta, GA, UNITED STATES

INVENTORS

Mark ZEHFUSS, Glen Allen, VA, UNITED STATES

CONTINUING DATA

This application is a CON of 16903292 06/16/2020 PAT 11731682

16903292 is a CON of 15912901 03/06/2018 PAT 10730543

15912901 is a CON of 15225326 08/01/2016 PAT 9944305

15225326 has PRO of 62311224 03/21/2016

15225326 is a CIP of 14597420 01/15/2015 PAT 9403550

14597420 is a CON of 14261558 04/25/2014 PAT 8955869

14261558 is a CON of 12631375 12/04/2009ABN

12631375 has PRO of 61119920 12/04/2008

FOREIGN APPLICATIONS

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08/22/2023

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UNITED STATES

ADDRESS

Eversheds Sutherland (US) LLP/NWL

999 Peachtree Street

Suite 2300

Atlanta, GA 30309

UNITED STATES

FILING FEE RECEIVED

$1,820

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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Application Number	18448417
Filing Date	2023-08-11
First Named Inventor	Mark ZEHFUSS
Art Unit	OPAP
Examiner Name	TBD
Attorney Docket Number	34757-2775

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8371606	B2	2013-02-12	Gower et al.	
	2	9004524	B1	2015-04-14	Gower et al.	
	3	9643640	B2	2017-05-09	Gower et al.	

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☒ A certification statement is not submitted herewith.

SIGNATURE

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Signature	/Umar Bakhsh/	Date (YYYY-MM-DD)	2023-11-07
Name/Print	Umar Bakhsh	Registration Number	67307

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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Filing Date	2023-08-11
First Named Inventor	Mark ZEHFUSS
Art Unit	OPAP
Examiner Name	TBD
Attorney Docket Number	34757-2775

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6585284	B2	2003-07-01	SWEENEY ET AL	
	2	5417449	A	1995-05-23	SHAMIE	
	3	5653460	A	1997-08-05	FOGARTY	
	4	5794951	A	1998-08-18	CORLEY ET AL.	
	5	D360392		1995-07-18	LEWANDOWSKI	

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First Named Inventor	Mark ZEHFUSS
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Signature	/Umar Bakhsh/	Date (YYYY-MM-DD)	2023-10-27
Name/Print	Umar Bakhsh	Registration Number	67307

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18448417	892	02/29/2024	34757-2775
18448417	1449	02/29/2024	34757-2775
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Bibliographic data: ES2253093 (A1) — 2006-05-16

Small double infantile car has two small car units each of which may be utilized separate from other since car units are removably attached by connectors

Inventor(s): JANE STOPP JOAQUIM [ES] ± (JANE STOPP JOAQUIM)

Applicant(s): PLAY SA [ES] ± (PLAY, S.A)

Classification: - international: ***B62B9/12***
- cooperative: **B62B7/008**; **B62B7/142**; **B62B7/145**; **B62B9/102**; **B62B9/12**; B62B2207/02 more

Application number: ES20040001973 20040806

Priority number(s): ES20040001973 20040806

Also published as: ES2253093 (B1)

Abstract of ES2253093 (A1)

The car is comprised of two small car units joined together by removable connectors. The removable connectors include a pair of sockets in the front part of one car unit and a pair of steel rods in the rear part of the other car unit. The steel rods are removably insertable into the sockets such that each car unit may be utilized separate from the other.

(19) OFICINA ESPAÑOLA DE PATENTES Y MARCAS

ESPAÑA

(11) Número de publicación: **2 253 093**

(21) Número de solicitud: 200401973

(51) Int. Cl.
B62B 9/12 (2006.01)

(12) SOLICITUD DE PATENTE A1

(22) Fecha de presentación: **06.08.2004**

(43) Fecha de publicación de la solicitud: **16.05.2006**

(43) Fecha de publicación del folleto de la solicitud: **16.05.2006**

(71) Solicitante/s: **PLAY, S.A.**
Polígono Industrial Riera de Caldes
Rda. Boada Vell, 6
08184 Palau de Plegamans, Barcelona, ES

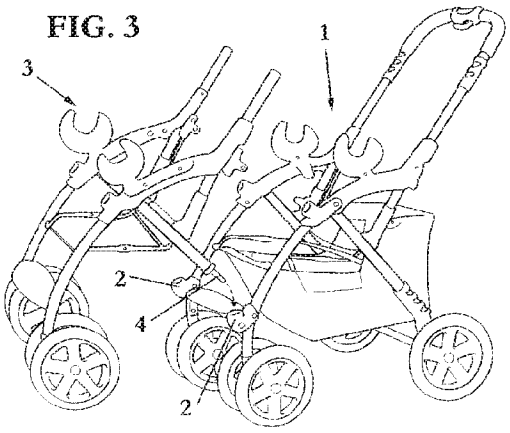
(72) Inventor/es: **Jane Stopp, Joaquim**

(74) Agente: **Ponti Sales, Adelaida**

(54) Título: **Cochecito infantil doble.**

(57) Resumen:
Cochecito infantil doble.
El cochecito comprende un primer cochecito infantil (1) y un segundo cochecito infantil (3) unidos entre sí, y se caracteriza por el hecho de que los dos cochecitos están unidos mediante medios de acoplamiento amovibles (2, 4). Dichos medios de acoplamiento amovibles comprenden un par de casquillos (2) previstos en la parte delantera de dicho primer cochecito infantil (1), donde se alojan un par de varillas (4) previstas en la parte posterior del segundo cochecito infantil (3). Se consigue un cochecito infantil doble que también se puede utilizar de manera individual.

FIG. 3



ES 2 253 093 A1

DESCRIPCIÓN

Cochecito infantil doble.

La presente invención se refiere a un cochecito infantil doble, que puede utilizarse para llevar dos niños a la vez, o de manera independiente.

Antecedentes de la invención

En la actualidad existen cochecitos infantiles dobles, que habitualmente se utilizan para llevar gemelos, aunque también se pueden usar para llevar niños de diferentes edades.

Estos cochecitos dobles comprenden dos cochecitos infantiles unidos a través de una única estructura, de manera que no se pueden separar.

Esta imposibilidad de separar los cochecitos presenta varios inconvenientes. En primer lugar, no se pueden utilizar los cochecitos por separado, lo que implica que si se han de llevar los dos niños por separado es necesario un cochecito independiente. En segundo lugar, si los niños son de diferente edad, cuando el mayor ya no necesita un cochecito infantil, únicamente se dispone de un cochecito infantil doble, no pudiéndose utilizar de manera individual.

Por lo tanto, es evidente la necesidad de un cochecito infantil que se pueda utilizar como cochecito infantil doble para dos niños a la vez y, al mismo tiempo, si se desea, utilizarlo como dos cochecitos infantiles independientes.

Descripción de la invención

Con el cochecito infantil de la invención se consiguen resolver los inconvenientes citados, presentando otras ventajas que se describirán.

El cochecito infantil doble de la presente invención comprende un primer cochecito infantil y un segundo cochecito infantil unidos entre sí, y se caracteriza por el hecho de que los dos cochecitos infantiles están unidos mediante medios de acoplamiento amovibles.

Gracias a esta característica, el cochecito infantil de la presente invención se puede utilizar con ambos cochecitos unidos o separados, según se desee.

Según una realización preferida, dichos medios de acoplamiento amovibles comprenden un par de casquillos previstos en la parte delantera de dicho primer cochecito infantil, donde se alojan un par de varillas previstas en la parte posterior del segundo cochecito infantil.

De esta manera, el acoplamiento y desacoplamiento de los dos cochecitos puede realizarse cómoda y rápidamente en el momento que se desee utilizar dichos cochecitos unidos o por separado.

Preferentemente, el segundo cochecito infantil comprende un par de ruedas montadas de manera amovible, estando dichas ruedas amovibles de dicho segundo cochecito montadas en dichas varillas.

Ventajosamente, dicho segundo cochecito comprende un manillar montado de manera amovible.

Breve descripción de los dibujos

Para mejor comprensión de cuanto se ha expuesto se acompañan unos dibujos en los que, esquemáticamente y tan sólo a título de ejemplo no limitativo, se representa un caso práctico de realización.

La figura 1 es una vista en perspectiva del primer cochecito de la presente invención;

La figura 2 es una vista en perspectiva del segundo cochecito de la presente invención;

La figura 3 es una vista en perspectiva de los dos cochecitos justo antes de su unión;

La figura 4 es una vista en perspectiva de cochecito doble de la presente invención; y

Las figuras 5 y 6 son vistas en perspectiva de dos cochecitos dobles según dos realizaciones alternativas.

Descripción de una realización preferida

En la figura 1 se ha representado un primer cochecito infantil 1, cuya única diferencia respecto a un cochecito infantil convencional es la presencia de medios de acoplamiento en su parte delantera. En concreto dichos medios de acoplamiento son un par de casquillos 2, cuya función se describirá posteriormente.

El resto del cochecito infantil no se describe, ya que es convencional y no forma parte de la presente invención.

En la figura 2 se ha representado un segundo cochecito infantil 3 que puede acoplarse al primer cochecito infantil 1 citado anteriormente. En este caso, la diferencia entre este segundo cochecito 3 y uno convencional es que comprende medios de acoplamiento en su parte trasera, en concreto un par de varillas 4, que se alojan en los casquillos 2 citados anteriormente cuando se utilizan ambos cochecitos 1, 3 acoplados entre sí, o en las que se colocan las ruedas traseras 5 del segundo cochecito 3, las cuales están montadas de manera amovible.

Además, el manillar 6 también está montado de manera amovible, pudiéndose retirar cuando se utilice el cochecito doble 1, 3.

Como es evidente, los dos cochecitos 1, 3 representados en las figuras 1 y 2 pueden utilizarse de manera independiente. Si se desea utilizarlos conjuntamente, simplemente se han de retirar las ruedas traseras 5 y el manillar 6 del segundo cochecito 3, introduciéndose las varillas 4 en los correspondientes casquillos 2, tal como se muestra en la figura 3. Aunque no se ha representado en las figuras, es evidente que los casquillos 2 comprenden algún sistema de retención para evitar que las varillas 4 se salgan accidentalmente.

Una vez realizada esta operación, el cochecito infantil doble de la presente invención queda tal como se ha representado en la figura 4, listo para utilizarse con dos niños.

Para volver a utilizar los dos cochecitos 1, 3 de manera independiente simplemente hay que realizar la operación inversa a la descrita anteriormente.

En las figuras 5 y 6 se han representado dos ejemplos de utilización del cochecito doble de la presente invención.

En la figura 5, se ha representado el cochecito doble con un asiento trasero 8 y un capazo delantero 7, mientras que en la figura 6 se ha representado con dos asientos 8. Como es sobradamente conocido, el capazo 7 es adecuado para bebés que han de ir echados, mientras que el asiento 8 es adecuado para niños que pueden permanecer sentados.

Es evidente que las combinaciones representadas en las figuras 5 y 6 son solamente a modo de ejemplo, pudiéndose utilizar cualquier combinación adecuada además de las representadas.

A pesar de que se ha hecho referencia a una realización concreta de la invención, es evidente para un experto en la materia que el coche infantil descrito es susceptible de numerosas variaciones y modifica-

ciones, y que todos los detalles mencionados pueden ser substituidos por otros técnicamente equivalentes, sin apartarse del ámbito de protección definido por las reivindicaciones adjuntas.

REIVINDICACIONES

1. Cochecito infantil doble, que comprende un primer cochecito infantil (1) y un segundo cochecito infantil (3) unidos entre sí, **caracterizado** por el hecho de que los dos cochecitos están unidos mediante medios de acoplamiento amovibles (2, 4).

2. Cochecito infantil doble según la reivindicación 1, **caracterizado** por el hecho de que dichos medios de acoplamiento amovibles comprenden un par de casquillos (2) previstos en la parte delantera de dicho primer cochecito infantil (1), donde se alojan un par de varillas (4) previstas en la parte posterior del segundo cochecito infantil (3).

3. Cochecito infantil doble según la reivindicación 1 ó 2, **caracterizado** por el hecho de que el segundo cochecito infantil (3) comprende un par de ruedas (5) montadas de manera amovible.

4. Cochecito infantil doble según las reivindicaciones 2 y 3, **caracterizado** por el hecho de que dichas ruedas amovibles (5) de dicho segundo cochecito están montadas en dichas varillas (4).

5. Coche infantil doble según la reivindicación 1, **caracterizado** por el hecho de que dicho segundo cochecito (3) comprende un manillar (6) montado de manera amovible.

FIG. 1

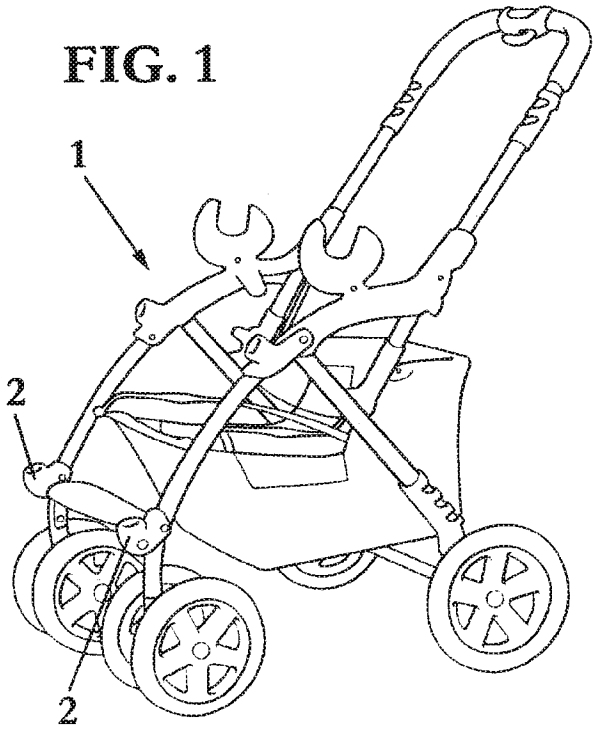


FIG. 2

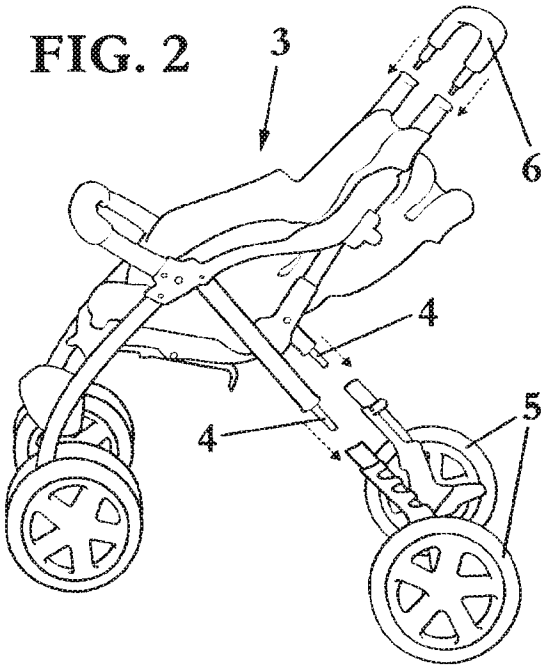


FIG. 3

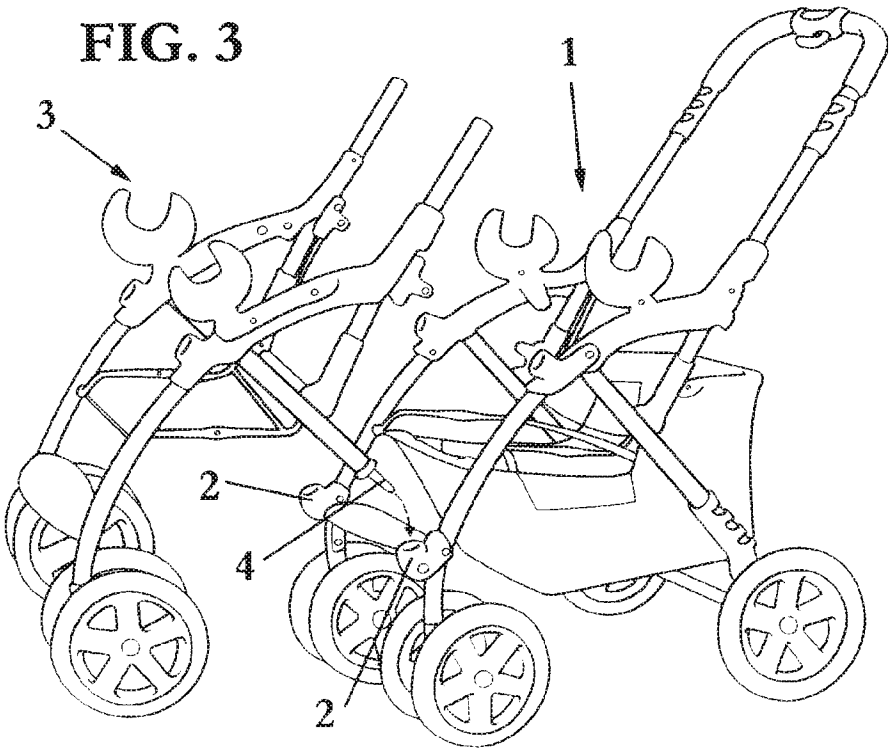


FIG. 4

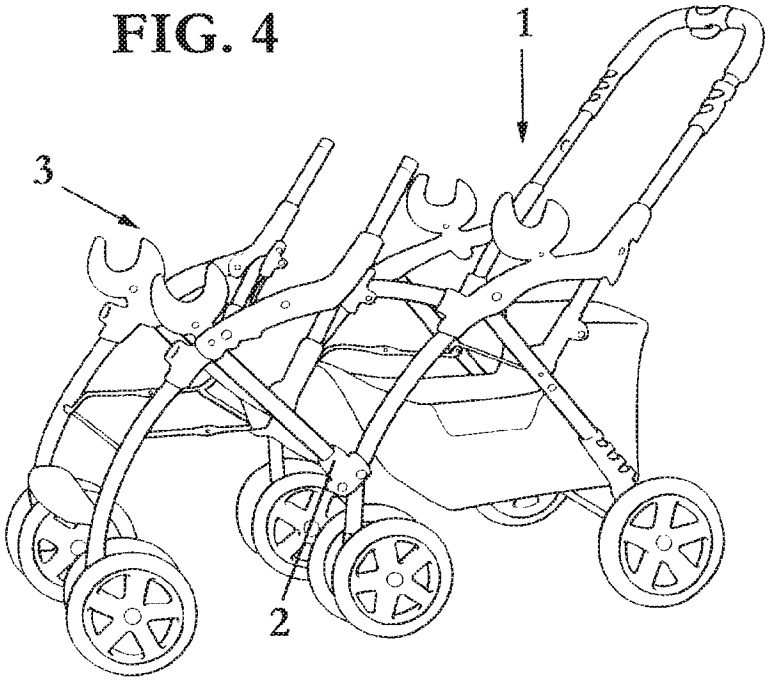


FIG. 5

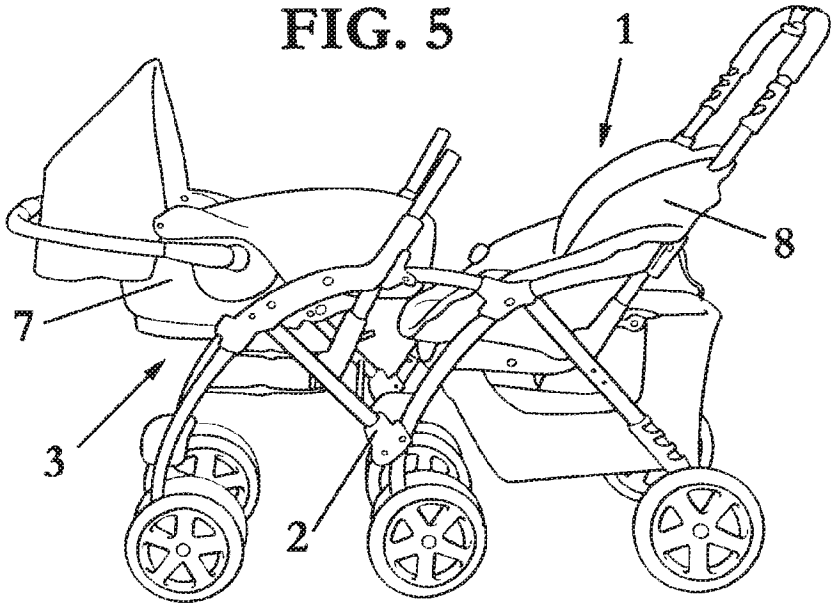
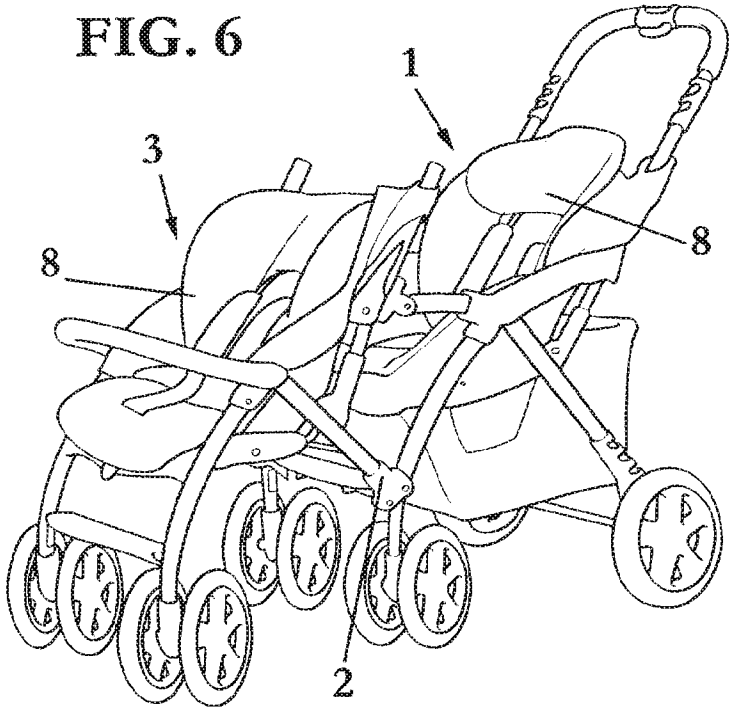


FIG. 6



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INFORME SOBRE EL ESTADO DE LA TÉCNICA

(51) **Int. Cl.:** ***B62B 9/12*** (2006.01)

DOCUMENTOS RELEVANTES

Categoría	Documentos citados	Reivindicaciones afectadas
X	GB 2368824 A (LACKEY) 15.05.2002, página 8, línea 29 - página 12, línea 20; figuras 4,5,7.	1,5
A		2
X	US 5522121 A (FRAYND) 04.06.1996, columna 1, líneas 30-37; figura 1.	1
A	US 6449801 B1 (DURRIN) 17.09.2002, columna 1, línea 50 - columna 2, línea 62; figuras 3,4.	3,4

Categoría de los documentos citados

X: de particular relevancia
Y: de particular relevancia combinado con otro/s de la misma categoría
A: refleja el estado de la técnica
O: referido a divulgación no escrita
P: publicado entre la fecha de prioridad y la de presentación de la solicitud
E: documento anterior, pero publicado después de la fecha de presentación de la solicitud

El presente informe ha sido realizado

☒ para todas las reivindicaciones ☐ para las reivindicaciones nº:

Fecha de realización del informe	Examinador	Página
20.04.2006	O. Fraile Paredes	1/1

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(51) INT CL[6]
B62B 7/04 // B62B 9/12

(52) UK CL (Edition O)
B7B BTX1 B406 B407

(56) Documents Cited
FR 002615155 A1 US 5033761 A US 4753453 A
US 4728112 A US 4542915 A

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UK CL (Edition O) B7B BTF1 BTX1
INT CL[6] B62B 7/00 7/04 9/00 9/10 9/12 9/28
Online: WPI

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(54) Compact two seater pushchair

(57) A two-seater pushchair comprises a foldable frame 1 upon which can be mounted two seats (figures 3 and 4) or a seat and a carry cot (figure 5), which frame has two side bars 2, 3 each having an upper portion 4 for mounting one seat/carry cot and a lower portion 5 at a different level for mounting the other seat/carry cot. The seats can be mounted variously to face one another or otherwise (figures 3 to 5). The portions may include devices 18 for locking the seats and/or carry cot in place. The upper portions and lower portions of the side bars may be linked by respective U-shaped supports 7 and 12. A backrest (R figure 3) and legrest (P figure 3) of the seat(s) may recline and a hood (T figures 3A and 5) may be provided on the seat(s)/carry cot.

Fig. 2

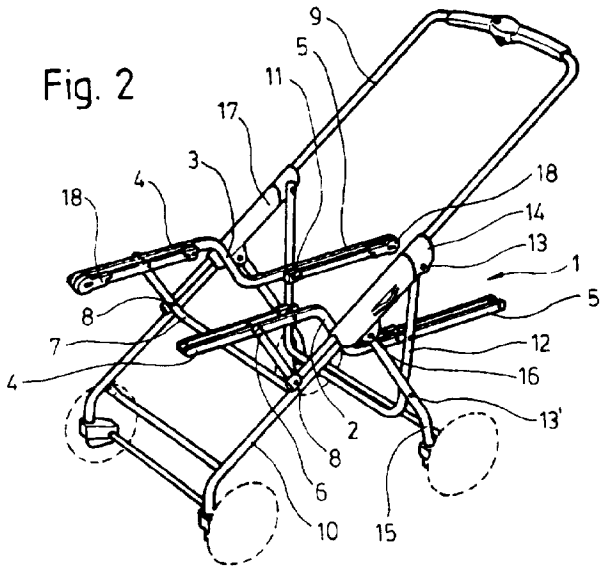

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Fig. 1

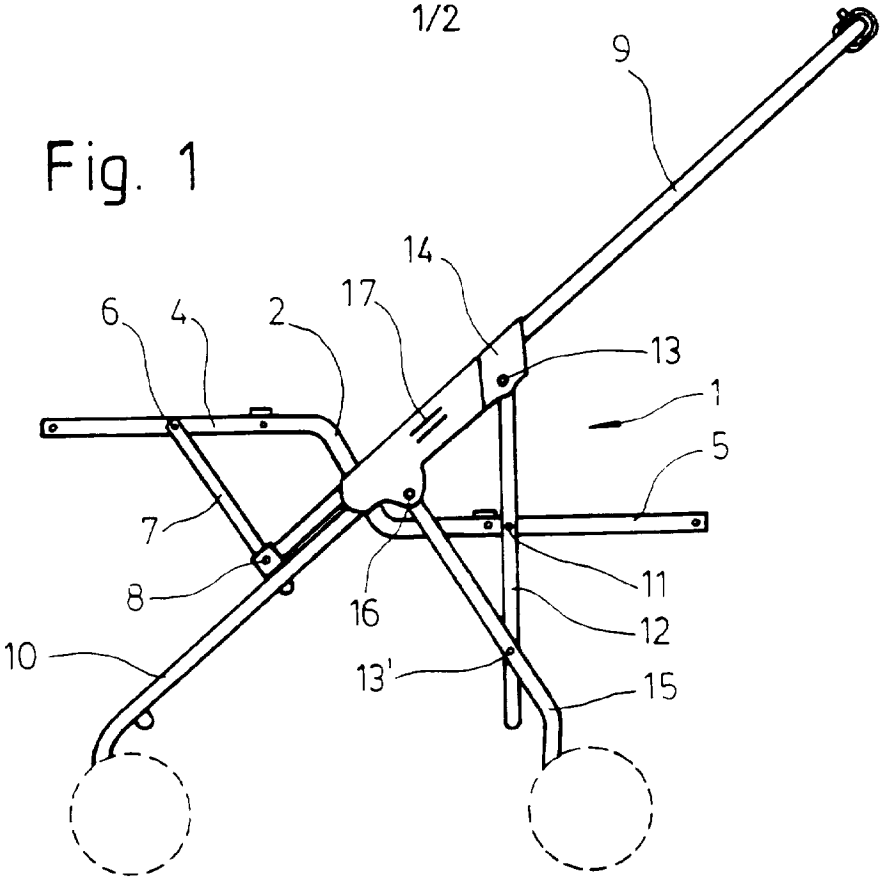
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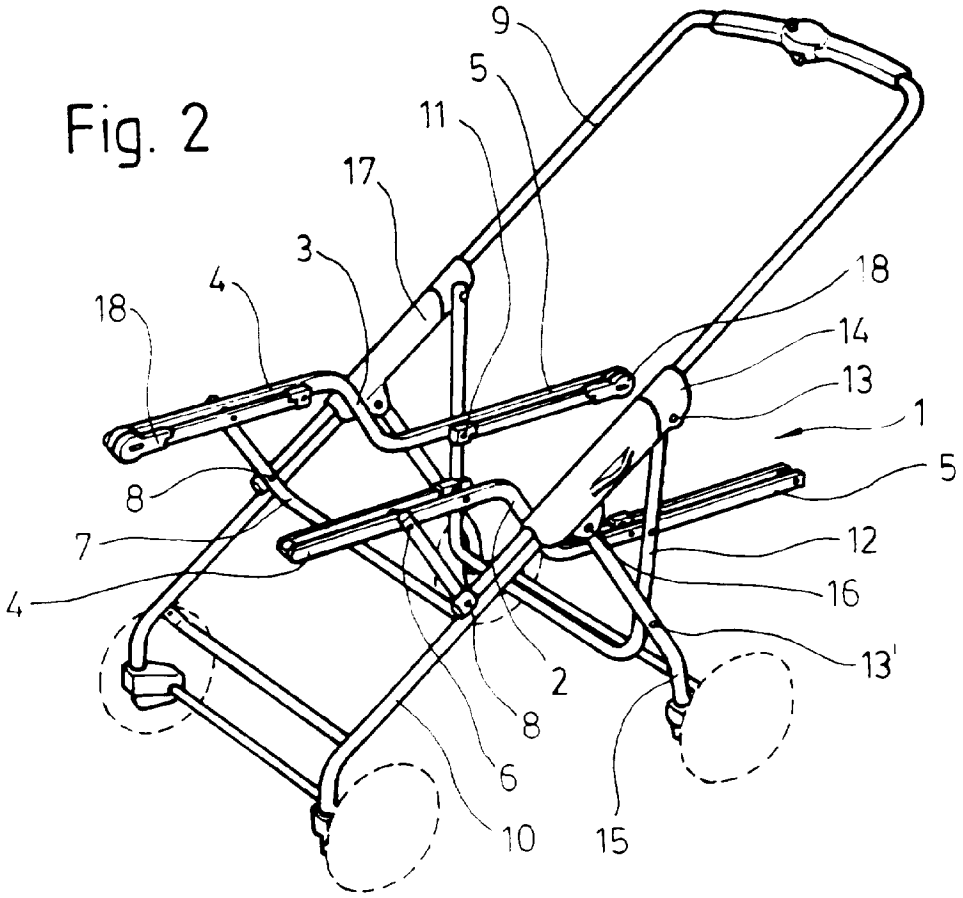
Fig. 2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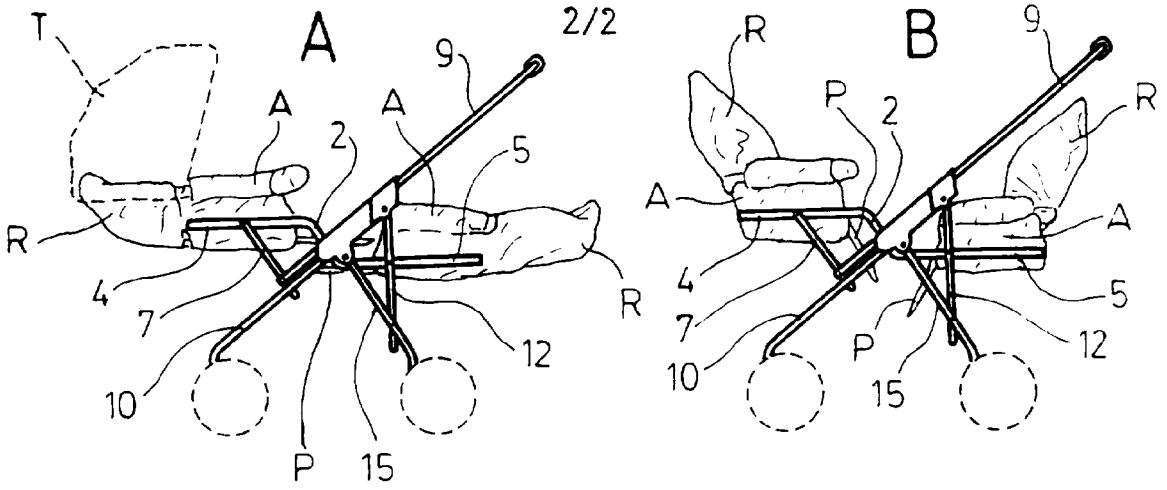

Fig. 3

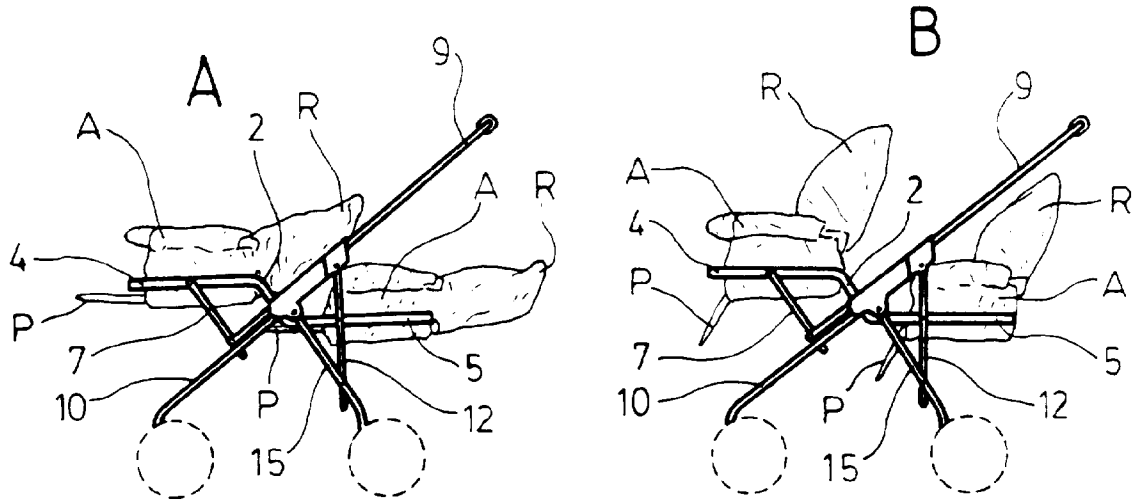

Fig. 4

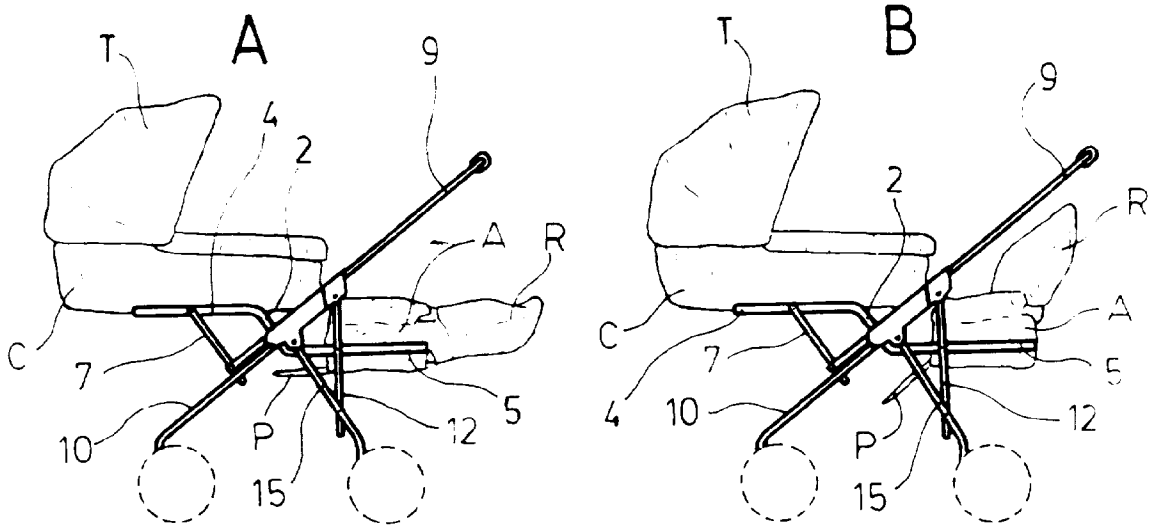

Fig. 5

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Two-seater children's pram-pushchair

This invention refers to a two-seater children's pram-pushchair.

Different models of two-seater children's pram-pushchairs are already known, created for twins, usually comprising a frame with four or six sets of wheels upon which one double-width seat or two single seats or two carry-cots are assembled side by side. These seats or carry-cots are usually placed looking forwards or backwards.

The problem with these pram-pushchairs is their width which hinders their passing through normal-width doors. To solve this problem, there are also two-seater pushchairs whose width is similar to that of conventional pram-pushchairs, where the seats are arranged one behind the other. In this case the pushchair is particularly long, making it difficult to fold up and with its not fitting into a car boot. In order to reduce this length in as far as possible, in some cases the matter of the child's comfort has been simplified using seats in which the child cannot lie flat.

The object of this invention is to achieve a two-seater children's pram-pushchair in which the children can lie down without the device being excessively long and of a normal width, with the additional advantage that the children can sit one in front of the other or looking at each other, and with its even being possible to use one seat and one carry-cot for transporting two children of different ages.

For this purpose, the common feature is that the chassis of the pram-pushchair has two side bars, each one of them formed by two stretches on different levels, with the two seats or one seat and one carry-cot being coupled freely on the higher stretches of the two bars and on the lower of them respectively.

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The two stretches of the two side bars on the different levels include a device to lock and unlock the fixture of the seats and carry-cot assembled on them.

These and other features are better understood from the detailed description that follows, to facilitate which two sheets of drawings are attached where a practical case of the embodiment mentioned is shown; this is provided merely as a non-restrictive example of the scope of this present invention.

In the drawings :

Figure 1 shows the side elevation of the frame of the pushchair in question.

Figure 2 shows a perspective view of that frame, and

Figures 3, 4 and 5 represent, schematically, some of the different positions of the seats and carry-cot.

According to the drawings, the pram-pushchair includes a foldable frame -1- presenting, characteristically, two side bars -2- and -3- each one of which formed by facing stretches -4- and -5- on different levels. Of these, stretches -4-, which are higher, are the front ones whereas stretches -5-, which are lower, are the rear ones.

In this case, the side bars are coupled by means of joints to the frame of the pram-pushchair. Thus, the higher front stretches -4- are jointed at an intermediate point -6- at the ends of the branches of a first U-shaped support -7- which is jointed underneath by points -8- to the ends of the branches of the handle in an inverted U-shape -9-, sliding along those branches along the front feet -10- of the frame when the pram-pushchair is folded up.

Meanwhile, the lower rear stretches -5- of the side bars -2- and -3- are jointed at an intermediate point -11- to an intermediate point of the branches of a second support in a U-shape -12- ; at the higher end -13- these

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are jointed to different brackets -14- coupled to the front feet -10- and underneath -13- they are jointed to the rear feet -15- ; these, at their higher end -16- are jointed to different brackets -17- linked to the brackets of the handle -9-.

The stretches -4- and -5- of the side bars are equipped with devices -18- to lock and unlock the fixtures of the corresponding seats -A- comprising a jointed back-rest -R- and leg-rest -P- and a carry-cot -C-; the seats and the carry-cot can be equipped with a hood -T-.

This structure and design of the side bars -2- and -3- make it possible to arrange the seats in front of each other and lying down (figure 3-A) or in front of each other and with the back-rest raised and the leg-rest lowered (figure 3-B), or to have one seat behind the other lying down (Figure 4-A) or with the back-rest raised and the leg-rest lowered (figure 4-B). It is also possible to arrange a carry-cot and a lying seat (Figure 5-A) or with the seat with the back-rest raised and the leg-rest lowered (Figure 5-B). Logically, other combinations can also be made such as for example one seat looking forwards and other looking backwards.

It is to be understood that the frame -1- may present a different structure to the one that is shown here as the essential factor of this pram-pushchair is the coupling of the side bars with its facing stretches on different levels of the frame.

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CLAIMS

1.Two-seater children's pram-pushchair comprising a foldable frame upon which the seats are assembled, characterized in that the frame has two side bars, each one of them formed by facing stretches on different levels, coupling fixedly on the higher stretches of the two bars and on the lower stretches thereof the corresponding seats or one seat and one carry-cot, where the seats can be arranged facing one another or otherwise.

2. Two-seater children's pram-pushchair, according to Claim 1, characterized in that the two stretches on different levels of the two side bars include devices for locking and unlocking the coupling of the seats and carry-cot assembled on them.

3. Two-seater children's pram-pushchair, according to Claim 1, characterized in that the front stretches of the side bars are linked by a joint at an intermediate point of the higher ends of the branches of the first support in a U-shape, articulated underneath the frame of the pram-pushchair.

4. Two-seater children's pram-pushchair, according to claim 1, characterized in that the rear stretches of the side bars are linked in a jointed way on an intermediate point of the branches of a second U-shapep support above and below the frame of the pram-pushchair.

5. Two-seater children's pram-pushchair, substantially as described herein with reference to the drawings.

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Amendments to the claims have been filed as follows

CLAIMS

1. A two-seater children's pram-pushchair comprising a foldable frame adapted to receive two seats, wherein the frame has two side bars, each one of which has two parts located at different heights, the two seats or one seat and one carry-cot being detachably mountable on the upper and lower parts of the side bars in such a manner as to face one another or be located one behind the other.

2. A two-seater children's pram-pushchair according to claim 1, wherein the said two parts of each of the side bars include devices for locking and unlocking the seats or carry-cot detachably mounted on said parts.

3. A two-seater children's pram-pushchair according to claim 1 or claim 2, wherein the upper parts of the side bars are located towards the front and are articulatedly linked at an intermediate point by a U-shaped joint which is articulated at a lower point to the frame of the pram-pushchair.

4. A two-seater children's pram-pushchair according to any one of the preceding claims, wherein the lower parts of the side bars are located towards the rear and are linked at an intermediate point by a second U-shaped joint which is articulatedly located at its upper point and at its lower point to the frame of the pram-pushchair.

5. A two-seater children's pram pushchair substantially as described herein with reference to the drawings.

The Patent Office

-6-

Application No: GB 9626714.1
Claims searched: 1 to 5

Examiner: Karl Whitfield
Date of search: 12 March 1997

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.O): B7B (BTF1, BTX1)

Int Cl (Ed.6): B62B 7/00, 7/04, 9/00, 9/10, 9/12, 9/28

Other: Online database: Derwent World Patents Index accessed via Questel

Documents considered to be relevant:

Category	Identity of document and relevant passage		Relevant to claims
X	US 4728112	(WYNENS) see especially figures 1 & 3	1 at least
X	US 4753453	(SCHILBACH) see especially figures 5-8	1 at least
X	US 4542915	(WHEELER et al) see especially 2	1 at least
X	FR 2615155 A1	(BOIDIN) see especially figures 1 & 2	1 at least
A	US 5033761	(KELLY) see especially figures 2-4	

X Document indicating lack of novelty or inventive step
Y Document indicating lack of inventive step if combined with one or more other documents of same category.
& Member of the same patent family
A Document indicating technological background and/or state of the art.
P Document published on or after the declared priority date but before the filing date of this invention.
E Patent document published on or after, but with priority date earlier than, the filing date of this application.

An Executive Agency of the Department of Trade and Industry EVENFLO EX1024

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Bibliographic data: CN2918181 (Y) — 2007-07-04

Carriage for children with front and rear seats

Inventor(s): CHEN ERRUI [CN] ± (ERRUI CHEN)

Applicant(s): DONGGUAN LIAOBUQI DAILY PRODUC [CN] ± (DONGGUAN LIAOBUQI DAILY PRODUCTS DESIGN SERVICE DEPARTMENT)

Classification: **- international:** ***B62B7/06***
- cooperative:

Application number: CN2006253300U 20060105

Priority number(s): CN2006253300U 20060105

Abstract of CN2918181 (Y)

The utility model discloses a double-child perambulator with a front seat and a rear seat, which comprises a frame of the perambulator, a front wheel assembly, a rear wheel assembly and a seat assembly. The frame comprises two side brackets, which are arranged at the two sides and connected with each other by a plurality of connecting rods; the side bracket comprises a supporting rod of the front wheel, a supporting rod of the rear wheel, a front arm lever and a rear arm lever respectively; the supporting rod of the front wheel is connected with a front wheel axle, while the supporting rod of the rear wheel is connected with a rear wheel axle; the rear end of the supporting rod of the front wheel is hinged with the front end of the supporting rod of the rear wheel mutually, and an arc with an upward opening is formed; the front end of the front arm lever is hinged in the middle of the supporting rod of the front wheel; the rear end of the front arm lever is hinged with the front end of the rear arm lever mutually, and an arc with an downward opening is formed; the middle part of the supporting rod of the rear wheel is hinged with the middle part of the rear arm lever; a kink four-bar linkage mechanism is formed by the side brackets by the supporting rod of the front wheel, the supporting rod of the rear wheel, the front arm lever and the rear arm lever hinged with each other; a transverse supporting rod is arranged between the two supporting rods of the rear wheel of the two side brackets, and a buckle mechanism is provided in the middle of the transverse supporting rod.

[19] 中华人民共和国国家知识产权局

[51] Int. Cl.
B62B 7/06 (2006.01)

[12] 实用新型专利说明书

专利号 ZL 200620053300.7

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[22] 申请日 2006.1.5

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代理人 蒋海燕

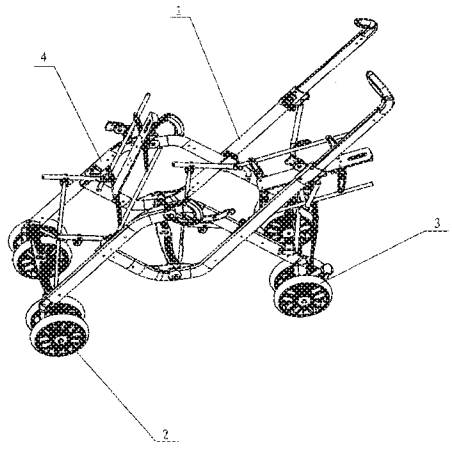
权利要求书 3 页 说明书 8 页 附图 7 页

[54] 实用新型名称

一种前后座双人儿童推车

[57] 摘要

本实用新型公开了一种前后座双人儿童推车，包括一推车车架、前轮组件、后轮组件及座椅组件；车架包括对称设置在两侧、并通过若干连接杆相连接的两侧支架；该侧支架，分别包括一前轮支杆、一后轮支杆、一前臂杆、一后臂杆；前轮支杆与前轮轴相连接，后轮支杆与后轮轴相连接；前轮支杆的后端部与后轮支杆的前端部相互铰接，形成一开口向上的拱起；前臂杆的前端部，铰接在前轮支杆的中部；前臂杆后端部与后臂杆的前端部相互铰接，形成一开口向下的拱起；后轮支杆的中部与后臂杆的中部相铰接；相互铰接的前轮支杆、后轮支杆、前臂杆、后臂杆，使侧支架形成铰链四连杆机构；侧支架的两后轮支杆之间，还设有一横向支撑杆，该支撑杆中部设有一卡扣机构。



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1、一种前后座双人儿童推车，包括一推车车架、设置在所述推车车架底前部的前轮组件，设置在所述的推车车架的底后部的后轮组件，及设置在所述车架上的两座椅组件，其特征在于：所述的推车车架包括对称设置在两侧、并通过若干连接杆相连接的两侧支架；所述的侧支架，分别包括一前轮支杆、一后轮支杆、一前臂杆、一后臂杆；所述的前轮支杆的前端部与前轮轴相连接，所述后轮支杆的后端部与后轮轴相连接；所述的前轮支杆的后端部与后轮支杆的前端部相互铰接，铰接后形成一开口向上的拱起；所述前臂杆的前端部，铰接在前轮支杆的中部；所述前臂杆后端部与后臂杆的前端部相互铰接，铰接后形成一开口向下的拱起；所述后轮支杆的中部与所述后臂杆的中部相铰接；所述相互铰接的前轮支杆、后轮支杆、前臂杆、后臂杆，共同使侧支架形成一铰链四连杆机构；所述侧支架的两后轮支杆之间，还设有一横向支撑杆，该支撑杆的两端分别铰接在两后轮支杆上，其中部设有一用来使该支撑杆保持平直或弯折状态的卡扣机构。

2、根据权利要求 1 所述的儿童推车，其特征在于：所述的侧支架的后臂杆后段，还连接有一手把杆；所述的手把杆的下段可以从所述的后臂杆后段中插进或拉出；所述后臂杆的上端部，还设有一控制手把杆进出的伸缩卡位机构；所述手把杆的上端，还设有一把手；所述的手把杆，还铰接有一对呈弯折形、中部相互交叉的连接杆；所述弯折形连接杆的一端，铰接在所述的手把杆上，其另一端铰接在另一侧支架的后轮支架上；所述的两个弯折形连接杆的中段交叉部相互铰接。

3、根据权利要求 1 或 2 所述的儿童推车，其特征在于：所述的前轮支杆、后轮支杆、前臂杆、后臂杆、手把杆，均是管状构件，其各自的两端部，均设有一连接件，并通过该连接件与其他构件相互连接。

4、根据权利要求 1 或 2 或 3 所述的儿童推车，其特征在于：所述的两侧支架的前轮支杆之间，还设有一中部可折叠的前脚踏板；所述的两侧支架的前臂杆之间，也设有一中部可折叠的后脚踏板。

5、根据权利要求 1 或 2 或 3 所述的儿童推车，其特征在于：所述侧支架前轮支杆的中段，还铰接有一前座水平连杆，该连杆的后端通过一连接板铰接在所述的前臂杆上；所述后臂杆与后轮支杆的铰接轴上，还铰接有一后座水平连杆，该连杆的后段相下弯折，其端部铰接在后轮支杆上；所述两侧支架之间，其前部及后部还分别设有一对呈 X 形交叉、且其交叉部相铰接的斜向交叉连杆；所述设在前部的两斜向交叉连杆，其上端部分别与所述前座水平连杆相铰接，其下端部分别与所述前轮支杆相铰接；所述设在后部的两斜向交叉连杆，其上端部分别与所述后座水平连杆相铰接，其下端部分别铰接在所述前臂杆与后臂杆的铰接轴上。

6、根据权利要求 5 所述的儿童推车，其特征在于：所述前座水平连杆的后段，分别铰接有一向上的前座背靠立杆；所述后座水平连杆的后段，分别铰接有一向上的后座背靠立杆；所述两前座背靠立杆之间，以及两后座背靠立杆之间，还分别设有一座位无级调节装置，该装置通过水平对称设置的若干背靠连接板，对称地铰接在所述的背靠立杆上。

7、根据权利要求 6 所述的儿童推车，其特征在于：所述座位无级调节装置，包括一长形本体、设在所述本体上并可上下滑动的卡位机构及若干条钢丝；所述的钢丝一端固定在所述本体的上端，中部穿过卡位机

构，下端固定在所述的车架上；所述的卡位机构，通过拉紧或松弛所述的钢丝，可以不间断地无级调节或改变本体相对于所述车架的位置。

8、根据权利要求 1 或 2 或 3 所述的儿童推车，其特征在于：所述的前轮支架，其上端部连接件的内侧边，与所述后轮支架的外侧边相互铰接，两前轮支架之间距离，大于两后轮支架之间的距离，使前后轮组件的位置错开。

9、根据权利要求 1 或 2 或 3 所述的儿童推车，其特征在于：所述前轮支杆、后轮支杆的铰接轴上，还设有一环形拉手，该拉手的一侧还开有一弧形槽，所述槽开口的一端铰接有一卡钩；所述后轮支架与后臂杆的铰接轴上，设有一与所述卡钩配合使用、设有一卡钩连接开口的定位构件；当车架处于使用状态时，该卡钩与该定位构件脱开；当车架处于折叠收拢状态时，该卡钩与该定位构件结合。

10、根据权利要求 1 或 2 或 3 所述的儿童推车，其特征在于：所述的前座水平连杆、前座背靠立杆，及铰接在所述前座背靠立杆上的无级调节装置上，还设有一前座椅；所述的后座水平连杆、后座背靠立杆，及铰接在所述后座背靠立杆上的无级调节装置上，设有一后座椅；所述的座椅可以是普通座椅或汽车座椅之一。

一种前后座双人儿童推车

技术领域

本实用新型涉及儿童推车，特别涉及一种可实现三维伸缩折叠、且折叠后仍然可以推行的前后座双人儿童推车。

背景技术

现有技术中的儿童推车，一般包括推车车架、设置在所述的推车车架的底前部的前轮、设置在所述的推车车架的底后部的后轮，所述的推车车架包括位于两侧的侧支架，所述的侧支架包括前轮支架、下端部与所述的前轮支架的上端部相转动连接的推把、上端部与所述的推把相转动连接的后轮支架，通常推车车架包括座连杆等，所述的座连杆的前端部与所述的前轮支架相转动连接，所述的座连杆的后端部与所述的后轮支架相转动连接，当所述的儿童推车折叠时，前轮支架相对后轮支架折叠，而座连杆限制了前轮支架相对后轮支架折叠的位置从而不能使前轮支架相对后轮支架在折叠后收缩的较小，且车架结构复杂，组装繁琐；现有的儿童推车，在车宽及车高方向也无法进行收缩折叠，且折叠后推车无法直立推行。因而现有技术的儿童推车结构复杂，折叠后的体积依然较大，制造及运输成本较高，使用亦部方便。

实用新型内容

本实用新型目的是提供一种可以实现三维折叠、结构简单、使用方便、折叠后体积更小、且折叠后推车仍可以直立推行的前后座双人儿童推车。

本实用新型实现上述目的所采用的技术方案是：一种前后座双人儿童推车，包括一推车车架、设置在所述推车车架底前部的前轮组件，设置在所述的推车车架的底后部的后轮组件，及设置在所述车架上的两座椅组件，其特征在于：所述的推车车架包括对称设置在两侧、并通过若干连接杆相连接的两侧支架；所述的侧支架，分别包括一前轮支杆、一后轮支杆、一前臂杆、一后臂杆；所述的前轮支杆的前端部与前轮轴相连接，所述后轮支杆的后端部与后轮轴相连接；所述的前轮支杆的后端部与后轮支杆的前端部相互铰接，铰接后形成一开口向上的拱起；所述前臂杆的前端部，铰接在前轮支杆的中部；所述前臂杆后端部与后臂杆的前端部相互铰接，铰接后形成一开口向下的拱起；所述后轮支杆的中部与所述后臂杆的中部相铰接；所述相互铰接的前轮支杆、后轮支杆、前臂杆、后臂杆，共同使侧支架形成一铰链四连杆机构；所述侧支架的两后轮支杆之间，还设有一横向支撑杆，该支撑杆的两端分别铰接在两后轮支杆上，其中部设有一用来使该支撑杆保持平直或弯折状态的卡扣机构；所述的支撑杆是由中部相互铰接的两段杆体组成，所述的卡扣机构是设置在该支撑杆中部的铰接处，包括一舌杆及复位弹簧。

所述的侧支架的后臂杆后段，还连接有一手把杆；所述的手把杆的下段可以从所述的后臂杆后段中插进或拉出；所述后臂杆的上端部，还设有一控制手把杆进出的伸缩卡位机构；所述手把杆的上端，还设有一把手；所述的手把杆，还铰接有一对呈弯折形、中部相互交叉的连接杆；所述弯折形连接杆的一端，铰接在所述的手把杆上，其另一端铰接在另一侧支架的后轮支架上；所述的两个形连接杆的中段交叉部相互铰接。

所述的前轮支杆、后轮支杆、前臂杆、后臂杆、手把杆，均是管状构件，其各自的两端部，均设有一连接件，并通过该连接件与其他构件相互连接。具体地，设置在前轮支杆与后轮支杆之间的连接件是一轴节；设置在前臂杆与后臂杆之间的连接件是一轴节；设置在后臂杆与手把杆之间的连接件是一伸缩卡扣机构。根据具体需求，上述构件可以采用铝合金材料制成，也可以选用其他材料，如不锈钢材料等。

所述的两侧支架的前轮支杆之间，还设有一中部可折叠的前脚踏板；所述的两侧支架的前臂杆之间，也设有一中部可折叠的后脚踏板。

所述侧支架前轮支杆的中段，还铰接有一前座水平连杆，该连杆的后端通过一连接板铰接在所述的前臂杆上；所述后臂杆与后轮支杆的铰接轴上，还铰接有一后座水平连杆，该连杆的后段相下弯折，其端部铰接在后轮支杆上；所述两侧支架之间，其前部及后部还分别设有一对呈X形交叉、且其交叉部相铰接的斜向交叉连杆；所述设在前部的两斜向交叉连杆，其上端部分别与所述前座水平连杆相铰接，其下端部分别与所述前轮支杆相铰接；所述设在后部的两斜向交叉连杆，其上端部分别与所述后座水平连杆相铰接，其下端部分别铰接在所述前臂杆与后臂杆的铰接轴上。

所述前座水平连杆的后段，分别铰接有一向上的前座背靠立杆；所述后座水平连杆的后段，分别铰接有一向上的后座背靠立杆；所述两前座背靠立杆之间，以及两后座背靠立杆之间，还分别设有一座位无级调节装置，该装置通过水平对称设置的若干背靠连接板，对称地铰接在所述的背靠立杆上。

所述的座位无级调节装置，包括一长形本体、设在所述本体上并可

上下滑动的卡位机构及若干条钢丝；所述的钢丝一端固定在所述本体的上端，中部穿过卡位机构，下端固定在所述的车架上；所述的卡位机构，通过拉紧或松弛所述的钢丝，可以不间断地无级调节或改变本体相对于所述车架的位置。

所述的前轮支架，其上端部连接件的内侧边，与所述后轮支架的外侧边相互铰接，两前轮支架之间距离，大于两后轮支架之间的距离，使前后轮组件的位置错开。

所述前轮支杆、后轮支杆的铰接轴上，还设有一环形拉手，该拉手的一侧还开有一弧形槽，所述槽开口的一端铰接有一卡钩；所述后轮支架与后臂杆的铰接轴上，设有一与所述卡钩配合使用、设有一卡钩连接开口的定位构件；当车架处于使用状态时，该卡钩与该定位构件脱开；当车架处于折叠收拢状态时，该卡钩与该定位构件结合。

所述的前座水平连杆、前座背靠立杆，及铰接在所述前座背靠立杆上的无级调节装置上，还设有一前座椅；所述的后座水平连杆、后座背靠立杆，及铰接在所述后座背靠立杆上的无级调节装置上，设有一后座椅；所述的座椅可以是普通座椅或汽车座椅之一。

本实用新型还可以根据实际需要，在各连接杆等适当的部件上，或相关部件之间，设置若干帘布，及其他辅助或装饰性部件、物品。

本实用新型与现有技术相比，具有下列优点：由于在所述的前轮支杆、后轮支杆、前臂杆、后臂杆使侧支架形成一铰链四连杆结构，可以使车架实现车长方向的折叠伸缩；由于把手杆可以伸缩进出后臂杆内，车架折叠后可将其缩进后臂杆内，降低折叠后的车架高度；由于两侧支架之间的各构件均可以其中心铰接轴或中点进行横向折叠，故车架可

以实现车身的车宽方向的伸缩折叠；由于前后轮组件的位置相互错开，车架折叠后前后轮组仍然可以继续工作，因而使车身可以继续直立推动行走。如上所述，本实用新型实现了对推车的三维伸缩折叠，不仅减小了儿童推车折叠后的体积，降低了运输成本，而且结构简单，折叠、伸展等较为便捷，折叠后仍然可以推行，使用非常方便。

附图说明

图 1 为本实用新型实施例车架的展开使用状态立体结构示意图；

图 2 为图 1 的主视图；

图 3 为图 1 的左视图；

图 4 为图 1 的右视图；

图 5 为图 1 的俯视图；

图 6 为图 1 中背靠的立体结构示意图；

图 7 为本实用新型实施例车架的折叠状态立体结构示意图；

下面结合附图及实施例对本实用新型进一步说明。

具体实施方式

实施例： 采用本实用新型技术方案，构造一款铝合金管状构件为车架主体的一种前后座双人儿童推车。

参见图 1～图 7，一种前后座双人儿童推车，包括一推车车架 1、设置在所述推车车架 1 底前部的前轮组件 2，该组件包括前车轮 2a 及前车轮轴 2b；设置在所述的推车车架 1 的底后部的后轮组件 3，该组件包括后车轮 3a 及后车轮轴 3b，及设置在所述车架 1 上的两座椅组件，包括

前座椅组件及后座椅组件；所述的推车车架 1 包括对称设置在两侧、并通过若干连接杆相连接的两侧支架 4，分别是左侧支架与右侧支架；所述的侧支架 4，分别包括一前轮支杆 5、一后轮支杆 6、一前臂杆 7、一后臂杆 8；所述的前轮支杆 5 的前端部与前轮轴 2b 相连接，所述后轮支杆 6 的后端部与后轮轴 3b 相连接；所述的前轮支杆 5 的后端部与后轮支杆 6 的前端部相互铰接，铰接后形成一开口向上的拱起；所述前臂杆 7 的前端部，铰接在前轮支杆 5 的中部；所述前臂杆 7 后端部与后臂杆 7 的前端部相互铰接，铰接后形成一开口向下的拱起；所述后轮支杆 6 的中部与所述后臂杆 8 的中部相铰接；所述相互铰接的前轮支杆 5、后轮支杆 6、前臂杆 7、后臂杆 8，共同使侧支架 4 形成一铰链四连杆机构；所述侧支架 4 的两后轮支杆 6 之间，还设有一横向支撑杆 9，该支撑杆的两端分别铰接在两后轮支杆 6 上，其中部设有一用来使该支撑杆 9 保持平直或弯折状态的卡扣机构 9a；所述的支撑杆 9a 是由中部相互铰接的两段杆体组成，所述的卡扣机构是设置在该支撑杆中部的铰接处，包括一舌杆及复位弹簧。

所述的侧支架 4 的后臂杆 8 后段，还连接有一手把杆 10；所述的手把杆 10 的下段可以从所述的后臂杆 8 后段中插进或拉出；所述后臂杆 8 的上端部，还设有一控制手把杆 10 进出的伸缩卡位机构 11；所述手把杆 10 的上端，还设有一把手 12；所述的手把杆 10，还铰接有一对呈弯折形、中部相互交叉的连接杆 13；所述弯折形连接杆 13 的一端，铰接在所述的手把杆 10 上，其另一端铰接在另一侧支架 4 的后轮支杆 6 上；所述的两个弯折形连接杆 13 的中段交叉部相互铰接。

所述的前轮支杆 5、后轮支杆 6、前臂杆 7、后臂杆 8、手把杆 10，

均是铝合金管状构件，其各自的两端部，均设有一连接件，并通过该连接件与其他构件相互连接；具体地，设置在前轮支杆 5 与后轮支杆 6 之间的连接件是轴节 14；设置在前臂杆 7 与后臂杆 8 之间的连接件是轴节 15；设置在后臂杆 8 与手把杆 10 之间的连接件是伸缩卡扣机构 11。根据具体需求，也可以选用其他材料，如不锈钢材料来制造前轮支杆 5、后轮支杆 6、前臂杆 7、后臂杆 8、手把杆 10 等构件及其连接件。

所述的两侧支架 4 的前轮支杆 5 之间，还设有一中部可折叠的前脚踏板 16；所述的两侧支架 4 的前臂杆 7 之间，也设有一中部可折叠的后脚踏板 17。

所述侧支架前轮支杆 5 的中段，还铰接有一前座水平连杆 18，该连杆 18 的后端通过一连接板 19 铰接在所述的前臂杆 7 上；所述后臂杆 8 与后轮支杆 6 的铰接轴上，还铰接有一后座水平连杆 20，该连杆 20 的后段相下弯折，其端部铰接在后轮支杆 6 上；所述两侧支架 4 之间，其前部设有一对呈 X 形交叉、且其交叉部相铰接的斜向交叉连杆 21，其后部设有一对呈 X 形交叉、且其交叉部相铰接的斜向交叉连杆 22；所述设在前部的两斜向交叉连杆 21，其上端部分别与所述前座水平连杆 18 相铰接，其下端部分别与所述前轮支杆 5 相铰接；所述设在后部的两斜向交叉连杆 22，其上端部分别与所述后座水平连杆 20 相铰接，其下端部分别铰接在所述前臂杆 7 与后臂杆 8 的铰接轴上。

所述前座水平连杆 18 的后段，分别铰接有一向上的前座背靠立杆 23；所述后座水平连杆 20 的后段，分别铰接有一向上的后座背靠立杆 24；所述两前座背靠立杆 23 之间，以及两后座背靠立杆 24 之间，还分别设有一座位无级调节装置 25，该装置通过水平对称设置的两对背靠连

接板 26，对称地铰接在所述的背靠立杆 23 及 24 上。

所述的座位无级调节装置 25，包括一长形本体 27、设在所述本体上 26 并可上下滑动的卡位机构 28 及若干条钢丝；所述的钢丝一端固定在所述本体 27 的上端，中部穿过卡位机构 28，下端固定在所述的车架 1 上；所述的卡位机构 28，通过拉紧或松弛所述的钢丝，可以不间断地无级调节或改变本体 27 相对于所述车架 1 的位置。

所述的前轮支架 5，其上端部连接件轴节 14 的内侧边，与所述后轮支架 6 的外侧边相互铰接，两前轮支架 5 之间距离，大于两后轮支架 6 之间的距离，使前轮组件 2 与后轮组件 3 的位置错开。

所述前轮支杆 5、后轮支杆 6 的铰接轴 14 上，还设有一环形拉手 29，该拉手的一侧还开有一弧形槽 30，所述槽开口的一端铰接有一卡钩 31；所述后轮支架 6 与后臂杆 8 的铰接轴上，设有一与所述卡钩 31 配合使用、设有一卡钩连接开口的定位构件 32；当车架 1 处于使用状态时，该卡钩 31 与该定位构件 32 脱开；当车架 1 处于折叠收拢状态时，该卡钩 31 与该定位构件 32 结合。

所述的前座水平连杆 18、前座背靠立杆 23，及铰接在所述前座背靠立杆 23 上的无级调节装置 25 上，还设有一前座椅；所述的后座水平连杆 20、后座背靠立杆 24，及铰接在所述后座背靠立杆 24 上的无级调节装置 25 上，设有一后座椅；所述的座椅可以是普通座椅或汽车座椅之一。本实用新型还可以根据实际需要，在各连接杆等适当的部件上，或相关部件之间，设置若干帘布，及其他辅助或装饰性部件、物品。

采用本实用新型上述实施例所述相同或相似的结构，所得到的其他前后座双人儿童推车，均在本实用新型保护范围之内。

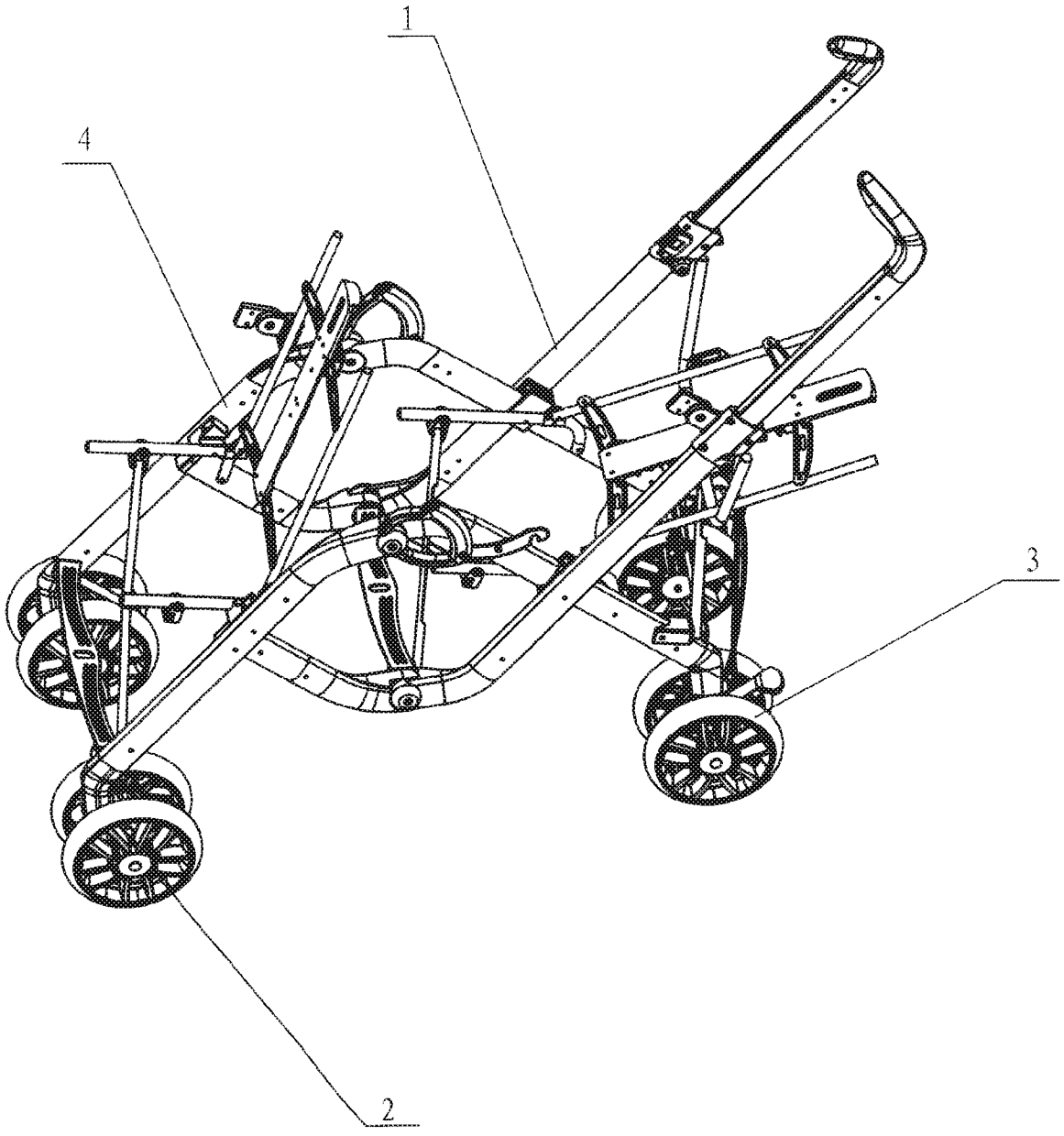

图 1

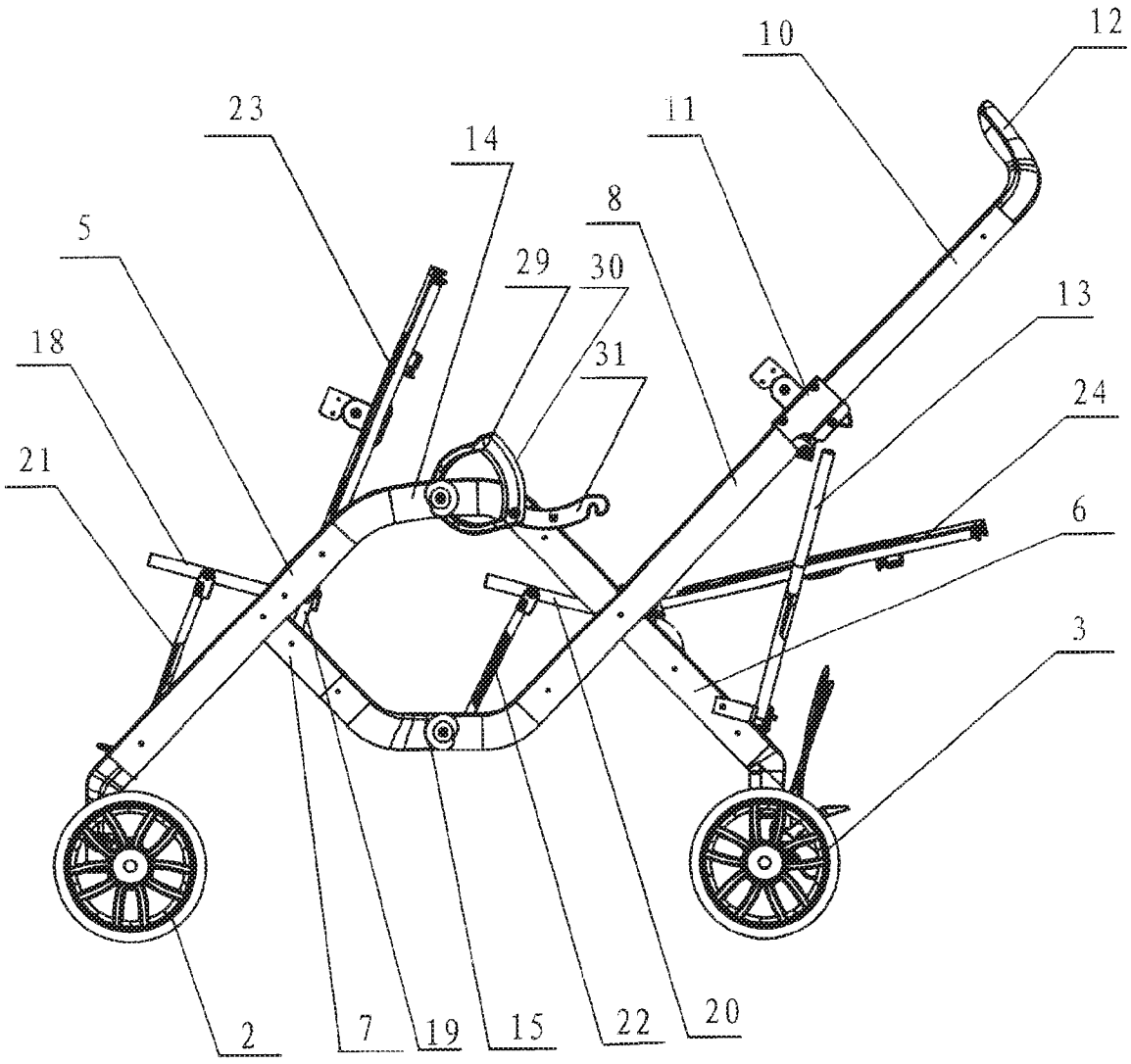

图 2

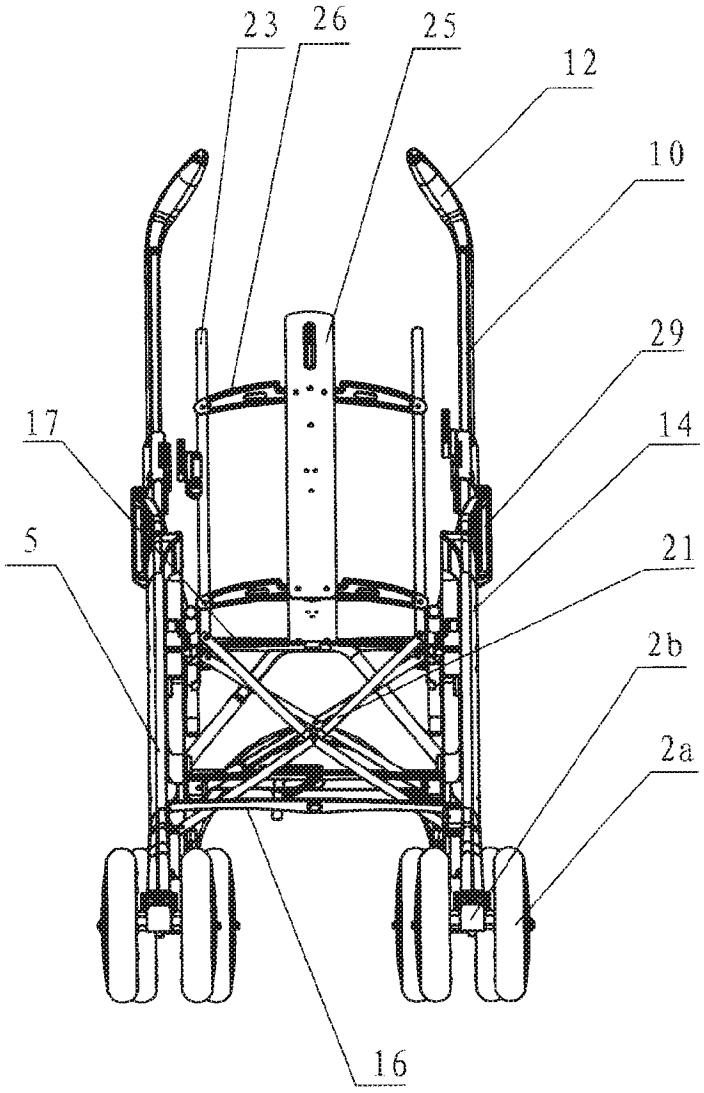

图 3

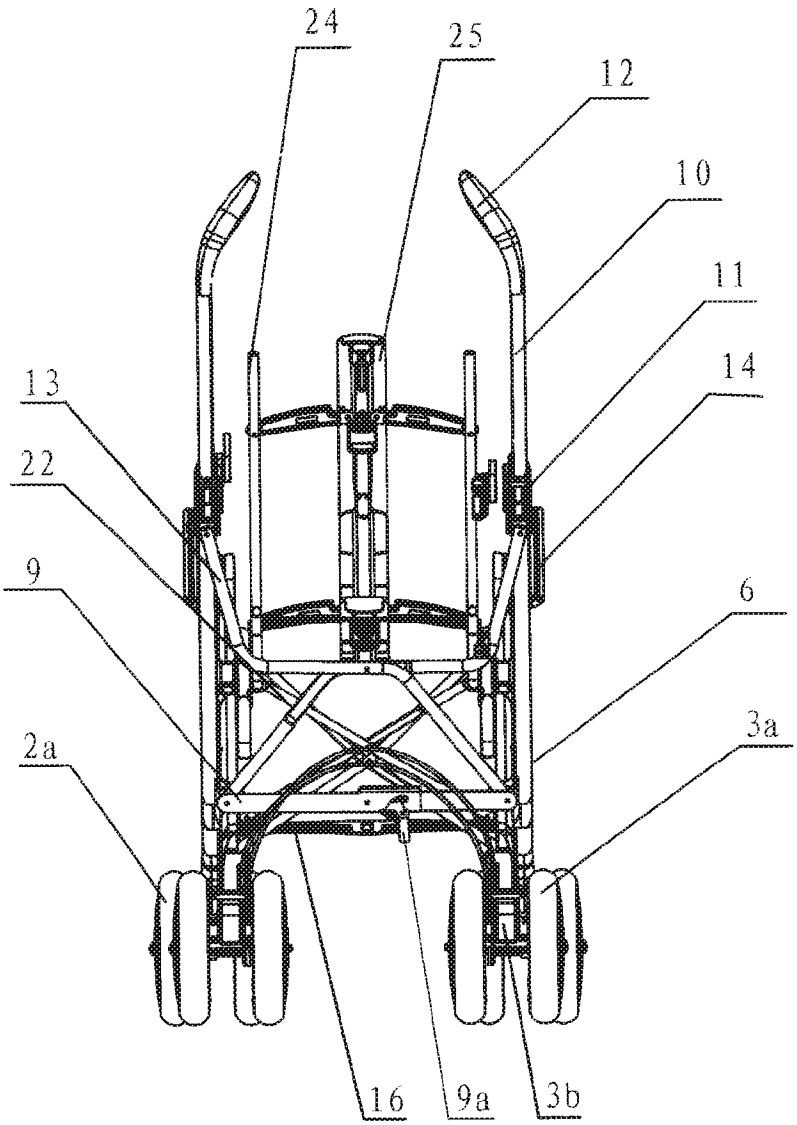

图 4

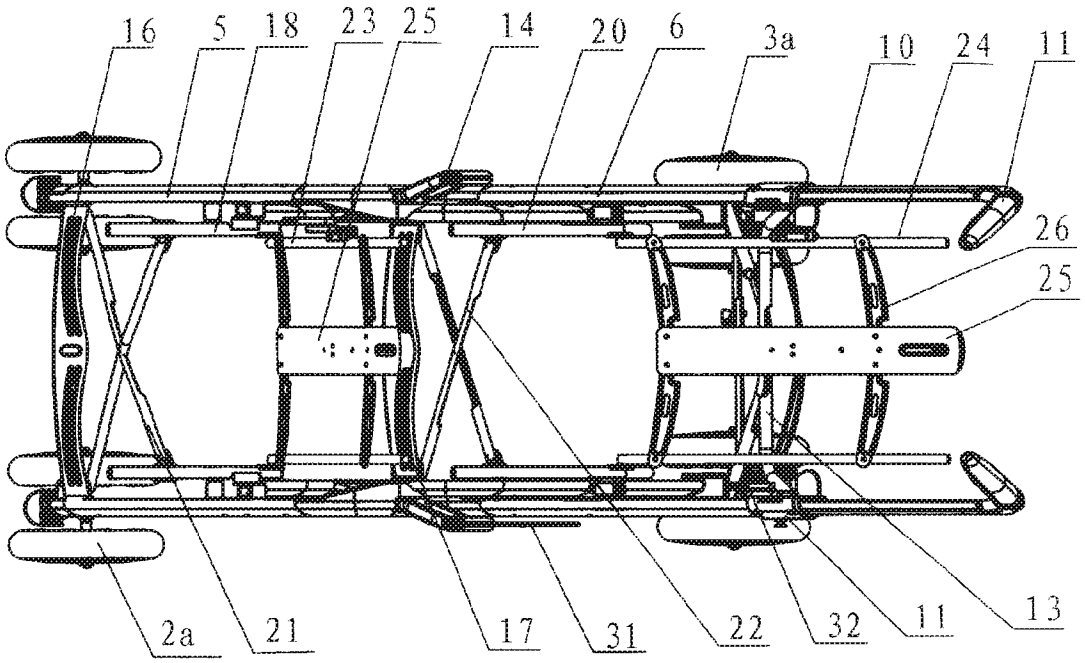

图 5

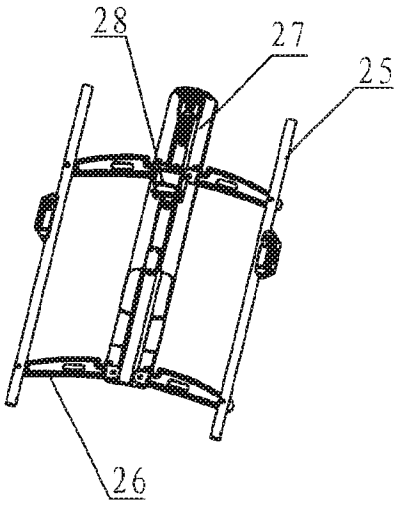

图 6

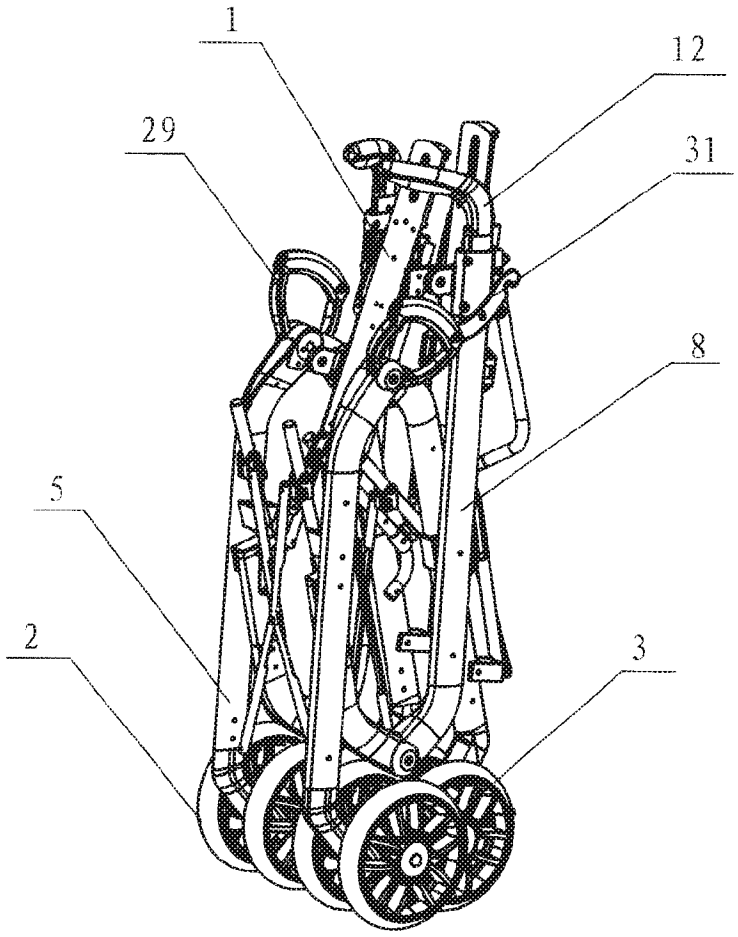

图 7

Espacenet

Bibliographic data: CN2784272 (Y) — 2006-05-31

Go-cart for children

Inventor(s): SHEN HAIDONG [CN] ± (HAIDONG SHEN)

Applicant(s): GOODBABY CHILD PRODUCTS CO LTD [CN] ± (GOODBABY CHILD PRODUCTS CO., LTD)

Classification: **- international:** ***B62B7/00; B62B9/00***
- cooperative:

Application number: CN2005269647U 20050104

Priority number(s): CN2005269647U 20050104

Abstract of CN2784272 (Y)

The utility model relates to a go-cart for children, which comprises a frame of the go-cart, front wheels arranged at the bottom-front part of the frame of the go-cart, rear wheels arranged at the bottom-rear part of the frame of the go-cart, and a first seat arranged on the frame of the go-cart, wherein the first seat is rotationally connected with the frame of the go-cart; in addition, rotary axis is almost vertical to the horizontal surface; a locking device for position is arranged between the first seat and the frame of the go-cart. When the direction of the first seat is needed to change, the locking device for position is unlocked and the first seat is rotated so that the direction of the first seat corresponding the frame of the go-cart is changed; then the first seat and the frame of the go-cart are locked again, and the direction of the first seat can be changed.

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[51] Int. Cl.
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[21] 申请号 200520069647.6

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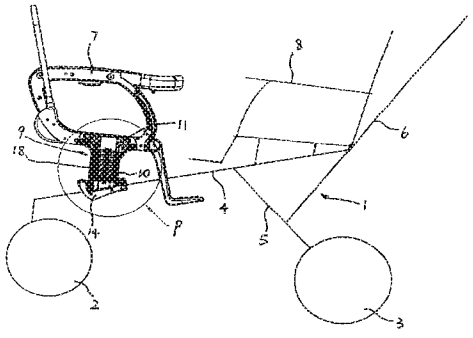
权利要求书 1 页 说明书 3 页 附图 5 页

[54] 实用新型名称

儿童推车

[57] 摘要

一种儿童推车，包括推车车架、设置在推车车架的底前部的前轮、设置在推车车架的底后部的后轮、设置在推车车架上的第一座位，第一座位与推车车架相转动连接，并且转动的轴心线与水平面大致上相垂直，第一座位与推车车架之间具有位置锁定装置。当第一座位需要换向时，只需将位置锁定装置解锁，转动第一座位，使得第一座位相对推车车架换向，再重新将第一座位与推车车架锁定，便实现第一座位的换向。



1、一种儿童推车，包括推车车架[1]、设置在所述的推车车架[1]的底前部的前轮[2]、设置在所述的推车车架[1]的底后部的后轮[3]、设置在所述的推车车架[1]上的第一座位[7]，其特征在于：所述的第一座位[7]与所述的推车车架[1]相转动连接，并且转动的轴心线与水平面大致上相垂直，所述的第一座位[7]与所述的推车车架[1]之间具有位置锁定装置[9]。

2、根据权利要求 1 所述的儿童推车，其特征在于：所述的推车车架[1]上固定设置有固定座[10]，所述的第一座位[7]上设有底盘[11]，所述的固定座[10]与所述的底盘[11]之间相转动连接。

3、根据权利要求 2 所述的儿童推车，其特征在于：所述的位置锁定装置[9]包括滑动地设置在所述的底盘[11]或所述的固定座[10]的一个上的插销[13]、开设在所述的底盘[11]或所述的固定座[10]的另一个上的至少两个插孔[12]，所述的插销[13]具有两个工作位置，第一工作位置是锁定工作位置，所述的插销[13]插在所述的插孔[12]中，第二工作位置是解锁工作位置，所述的插销[13]脱离所述的插孔[12]。

4、根据权利要求 3 所述的儿童推车，其特征在于：所述的位置锁定装置[9]还包括操作件[14]，所述的操作件[14]与所述的插销[13]相连接。

5、根据权利要求 3 所述的儿童推车，其特征在于：所述的固定座[10]上开有导向槽[15]，所述的插销[13]滑动地插在所述的导向槽[15]内。

6、根据权利要求 5 所述的儿童推车，其特征在于：所述的插销[13]与所述的固定座[10]之间设置有弹簧[15]。

7、根据权利要求 2 所述的儿童推车，其特征在于：所述的第一座位[7]的座基架与所述的底盘[11]可拆卸地连接。

8、根据权利要求 2 所述的儿童推车，其特征在于：所述的推车车架[1]包括前轮支架[4]、与所述的前轮支架[4]的后端部相转动连接的推把[6]、与所述的推把[6]的下端部相转动连接的后轮支架[5]，所述的后轮支架[5]的前端部与所述的前轮支架[4]相转动连接。

9、根据权利要求 8 所述的儿童推车，其特征在于：所述的固定座[10]固定设置在所述的前轮支架[4]上。

儿童推车

技术领域

本实用新型涉及一种儿童推车。

背景技术

现有技术中，为了实现儿童推车上的座位相对推车车架换向（换向是指座位上的儿童相对于推车的大人呈面对面的位置或背对面的位置），儿童推车上的座位可拆卸的设置在所述的推车车架上，需要换向时，须先将座位从推车车架上拆卸下来，将所述的座位换个方向后再安装到所述的推车车架上，假如所述的座位上坐着小孩，还有必要将小孩抱下，再将座位换向，使得操作很不方便。

发明内容

本实用新型目的是提供一种儿童推车，其座位的换向可以较方便的实现。

为达到上述目的，本实用新型采用的技术方案是：一种儿童推车，包括推车车架、设置在所述的推车车架的底前部的前轮、设置在所述的推车车架的底后部的后轮、设置在所述的推车车架上的第一座位，所述的第一座位与所述的推车车架相转动连接，并且转动的轴心线与水平面大致上相垂直，所述的第一座位与所述的推车车架之间具有位置锁定装置，在位置锁定装置处于解锁状态下，所述的第一座位可以相对于推车车架转动，可以调整座位，使得座位上的儿童相对于推车的大人呈面对面的状态，或呈背对面的状态。在位置锁定装置处于锁定状态下，所述的第一座位相对于推车车架呈位置相对固定的状态，第一座位不能相对于推车车架转动。

由于上述技术方案运用，本实用新型与现有技术相比具有下列优点：由于所述的第一座位与所述的推车车架之间相转动连接，并且所述的第一座位与所述的推车车架之间具有位置锁定装置，因此当第一座位需要换向时，只需将所述的位置锁定装置解锁，转动所述的第一座位，使得第一座位相对所述的推车车架换向，再重新将所述的第一座位与所述的推车车架锁定，便实现所述的第一座位的换向。

附图说明

附图 1 为本实用新型的座位正常使用时的主视图；

附图 2 为本实用新型的座位换向过程中的主视图；

附图 3 为本实用新型的座位换向后的主视图；

附图 4 为附图 1 的 I 处放大图；

附图 5 为附图 2 的 K 处放大图；

附图 6 为附图 3 的 P 处放大图；

其中：1、推车车架；2、前轮；3、后轮；4、前轮支架；5、后轮支架；6、推把；7、第一座位；8、第二座位；9、位置锁定装置；10、固定座；11、底盘；12、插孔；13、插销；14、操作件；15、弹簧；16、导向槽；17、第二转动轴；18、第一转动轴；

具体实施方式

参见附图 1-附图 3，一种可以双人坐的儿童推车，包括推车车架 1、设置在所述的推车车架 1 的底前部的前轮 2、设置在所述的推车车架 1 的底后部的后轮 3、设置在所述的推车车架 1 上的第一座位 7、设置在所述的推车车架 1 上的第二座位 8。所述的推车车架 1 包括前轮支架 4、与所述的前轮支架 4 的后端部相转动连接的推把 6、与所述的推把 6 的下端部相转动连接的后轮支架 5，所述的后轮支架 5 的前端部与所述的前轮支架 4 相转动连接，所述的第一座位 7 与所述的推车车架 1 相转动连接，并且转动的轴心线与水平面大致上相垂直。所述的推车车架 1 上固定设置有固定座 10，所述的固定座 10 固定设置在所述的前轮支架 4 上，所述的第一座位 7 上设有底盘 11，所述的第一座位 7 的座基架与所述的底盘 11 可拆卸地连接，所述的固定座 10 与所述的底盘 11 之间通过第一转动轴 18 相转动连接，所述的第一座位 7 与所述的推车车架 1 之间具有位置锁定装置 9。

所述的位置锁定装置 9 包括滑动地设置在所述的底盘 11 或所述的固定座 10 的一个上的插销 13、开设在所述的底盘 11 或所述的固定座 10 的另一个上的至少两个插孔 12。

如附图 4-附图 6 所示，所述的固定座 10 上开有导向槽 15，所述的插销 13 滑动地插在所述的导向槽 15 内，在所述的底盘 11 上开有两个插孔 12，该两个插孔 12 分别用于把第一座位 7 锁定于座位朝前或座位朝后的位置。所述的插销 13 具有两个工作位置，第一工作位置是锁定工作位置，所述的插销 13 插在所述的插孔 12 中，第二工作位置是解锁工作位置，所述的插销 13 脱离所述的插孔 12。所述的位置锁定装置 9 还包括操作件 14，所述的操作件 14 的一端部与所述的固定座 10 通过第二转动轴 17 相转动连接，所述的操作件 14 与

所述的插销 13 相连接，按动所述的操作件 14，使得所述的插销 13 处于第二工作位置，所述的插销 13 脱离所述的插孔 12。

所述的插销 13 与所述的固定座 10 之间设置有弹簧 15，当所述的插销 13 处于第一工作位置时，弹簧 15 的作用力使得所述的插销 13 稳定地插在所述的插孔 12 中。

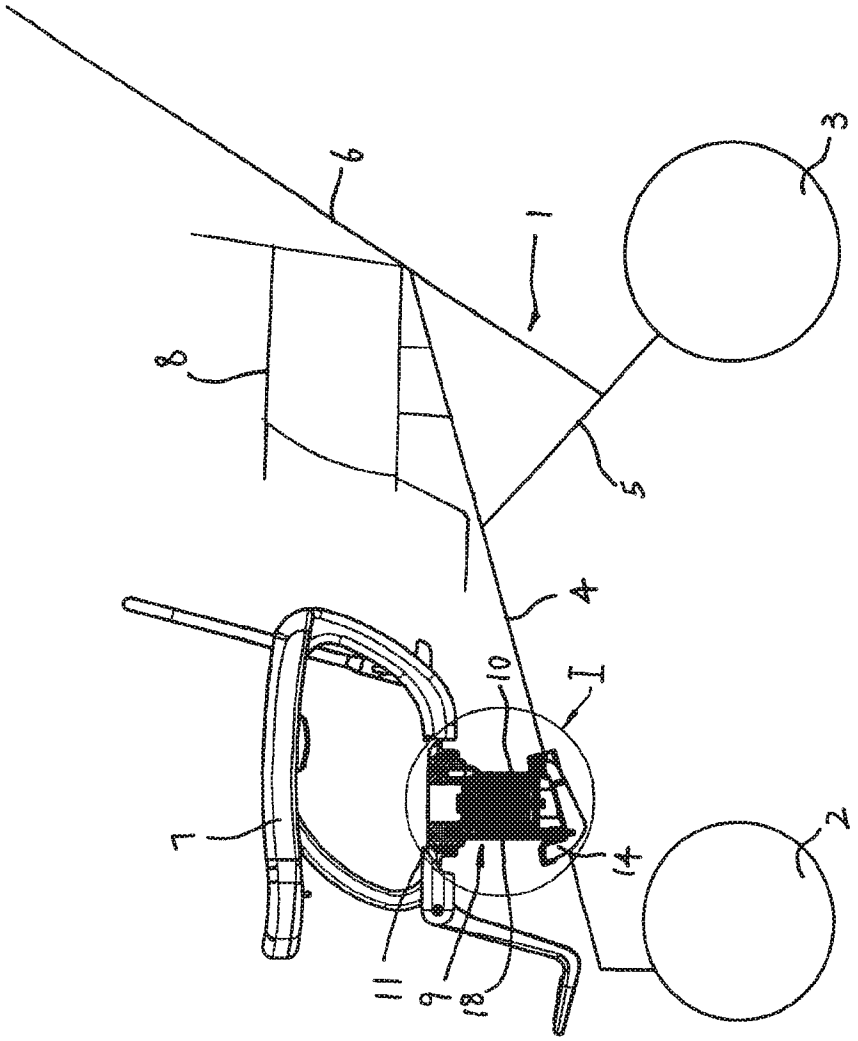


图 1

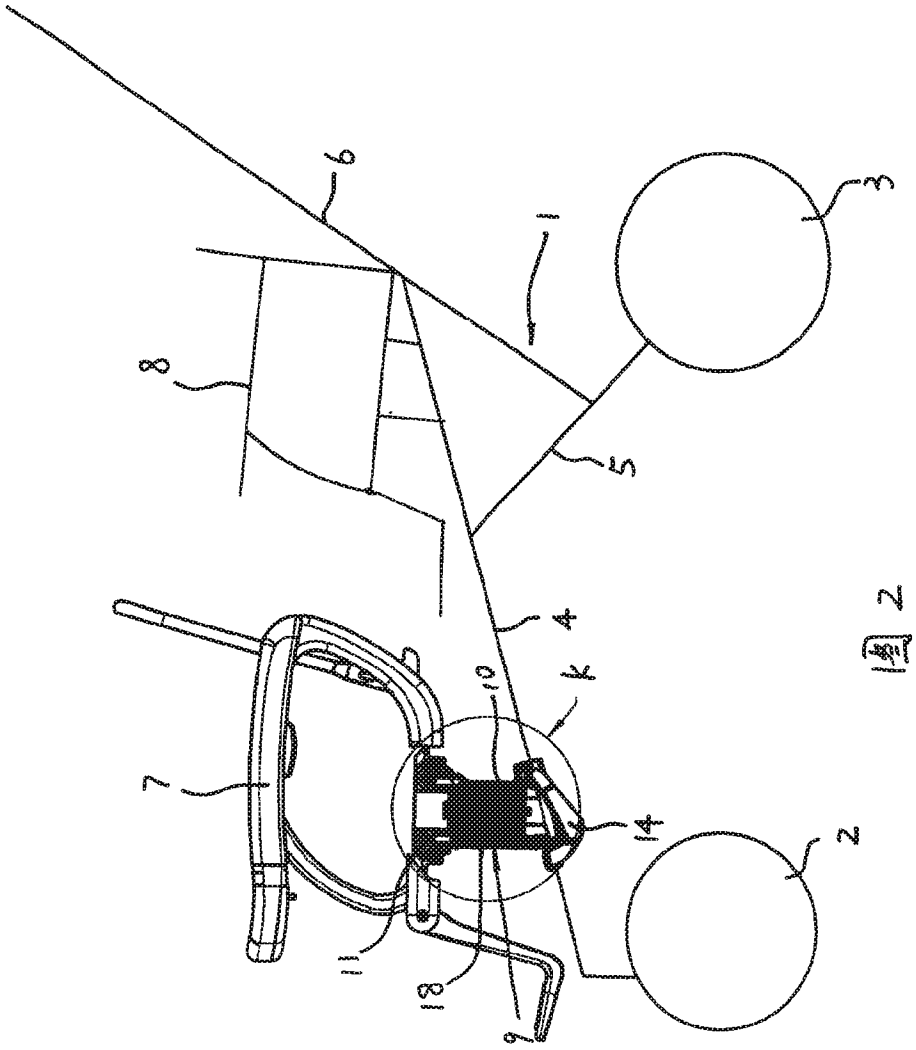


图 2

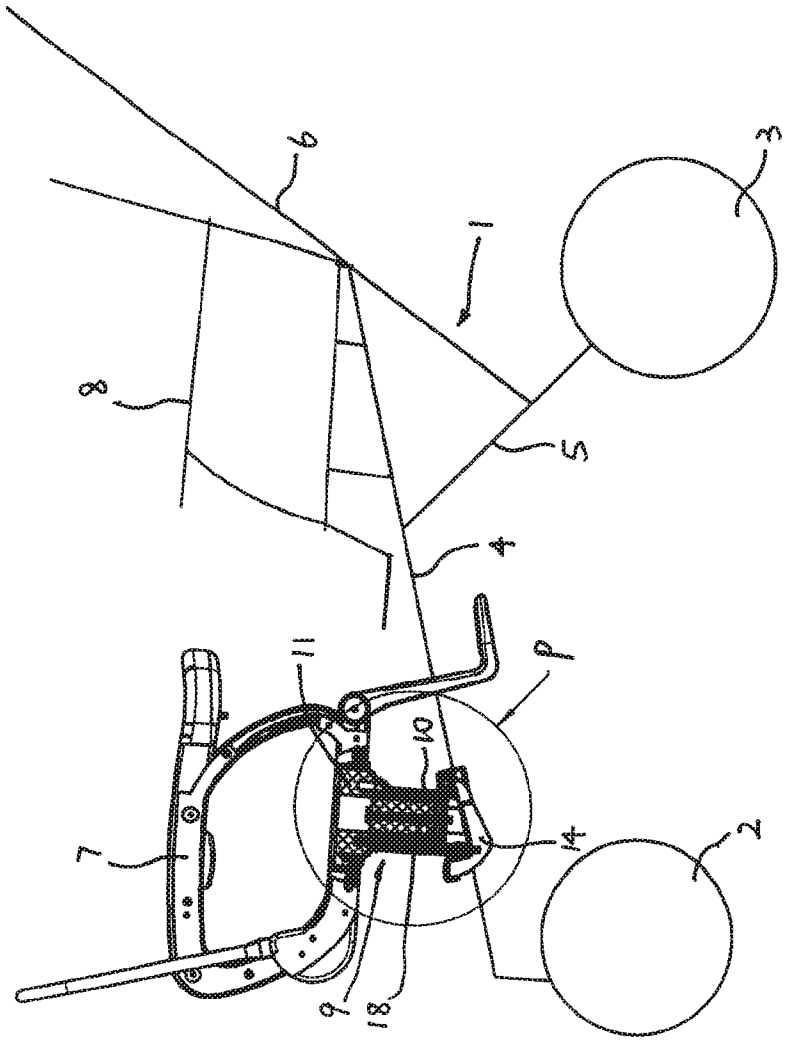


图 3

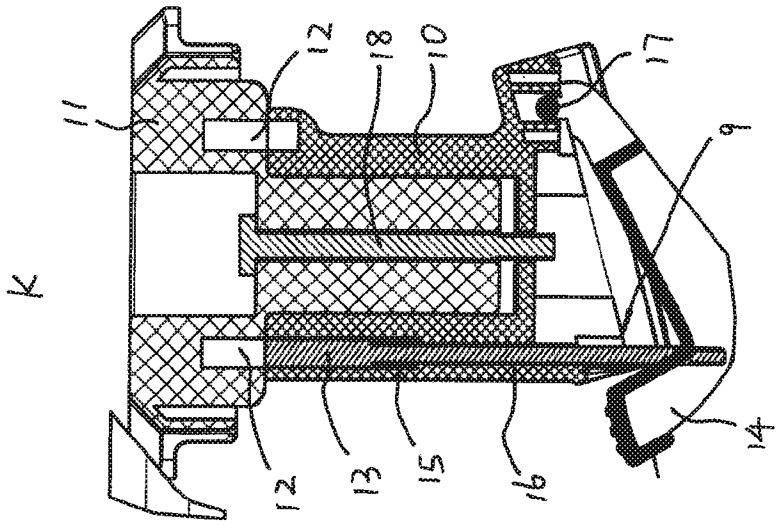


图 5

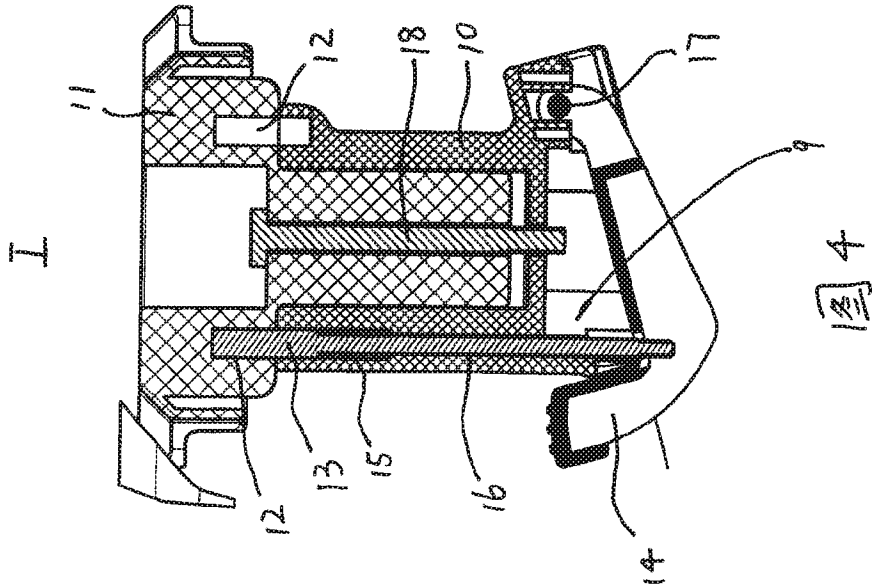


图 4

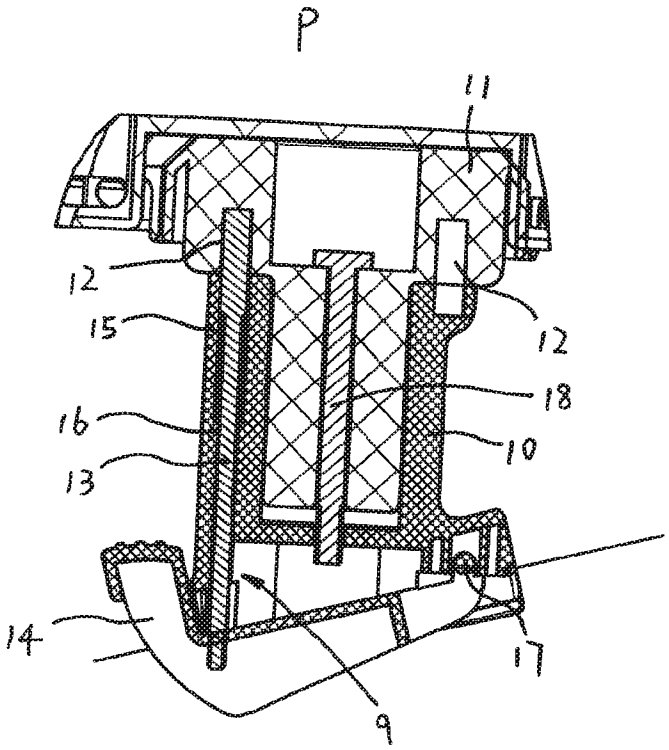


图 6

Espacenet

Bibliographic data: CN201626448 (U) — 2010-11-10

Multifunctional baby carrier

Inventor(s): GE LUO ± (LUO GE)

Applicant(s): GE LUO ± (LUO GE)

Classification: **- international:** ***B62B7/04; B62B9/12***
- cooperative:

Application number: CN20102115279U 20100211

Priority number(s): CN20102115279U 20100211

Abstract of CN201626448 (U)

The utility model relates to a multifunctional baby carrier, which comprises a baby carrier body, a baby carrier frame and wheels. Lateral handrails are arranged on two sides of the baby carrier body; a detachable device is arranged on the lateral handrails, and comprises a receiving device arranged on the lateral handrails and a connecting seat capable of being mounted and demounted on the receiving device; the receiving device comprises grooves formed on the lateral handrails; a cross rod is fixed in the grooves in the transverse direction; the connecting seat comprises a connecting seat casing, in which a fixed hook capable of being buckled in the cross rod is arranged; a spring is arranged between the fixed hook and the connecting seat casing, and is connected with a button; and the connecting seat is fixed on an automobile seat or a cradle. The utility model has the advantages that the detachable device is arranged on the lateral handrails of the baby carrier, so that the automobile seat or the cradle can be conveniently mounted or demounted to greatly facilitate users; and moreover, the structure is simple, and both the mounting and the demounting are very simple.

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(12)实用新型专利

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(72)发明人 罗革

(51)Int.Cl.
B62B 7/04(2006.01)
B62B 9/12(2006.01)

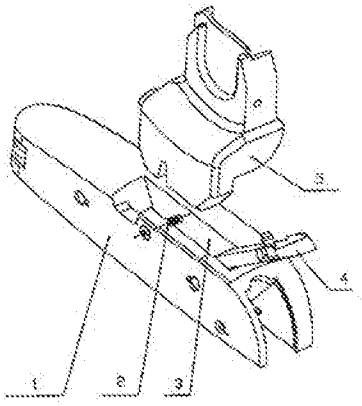
权利要求书 1 页 说明书 2 页 附图 3 页

(54)实用新型名称

一种多功能童车

(57)摘要

本实用新型涉及一种多功能童车，包括车身、车架与车轮，车身两侧设有侧扶手，所述的侧扶手上设置可拆卸装置，可拆卸装置包括设置在侧扶手上的接收装置和可装卸在接收装置上的连接座，所述的接收装置包括设置在侧扶手上的凹槽，所述的凹槽内横向方向上固定有横杆，所述的连接座包括连接座壳体，壳体内设置有能扣入横杆的固定钩，固定钩与连接座壳体之间设置弹簧，弹簧连接按钮，且连接座固定在汽车座椅或摇篮上。本实用新型在童车的侧扶手上设置可拆卸装置，使得汽车座椅或者摇篮可以方便地安装或拿下，大大方便了用户，且本实用新型结构简单，安装和拆卸都很简单。



CN 201626448 U

1. 一种多功能童车，包括车身、车架与车轮，车身两侧设有侧扶手，其特征在于：所述的侧扶手上设置可拆卸装置，所述的可拆卸装置包括设置在侧扶手上的接收装置和可装卸在接收装置上的连接座，所述的接收装置包括设置在侧扶手上的凹槽，所述的凹槽内横向方向上固定有横杆，所述的连接座包括连接座壳体，壳体内设置有能扣入横杆的固定钩，固定钩与连接座壳体之间设置弹簧，弹簧连接按钮，且所述的连接座固定在汽车座椅或摇篮上。

一种多功能童车

（一）技术领域

[0001] 本实用新型涉及一种童车，尤其是涉及一种能放置多种部件的多功能童车。

（二）背景技术

[0002] 目前市场上的童车一般不具备儿童汽车安全座椅功能，如专利号为 03225254.4 的中国实用新型专利一种两用童车，其结构包括可折叠主体，连接在主体下端的四个可折叠车轮，主体装设有汽车安全带卡扣机构，在儿童乘坐位置有用于缚紧乘员的安全带。完全打开时，与普通童车无异，四个车轮收折后，可放在汽车座椅上，扣上汽车安全带作为汽车安全座椅使用。虽然，该款童车实现双重功能，但是毕竟童车与汽车座椅在要求上差别较大，折叠后的童车作为汽车座椅在安全性和舒适性上大打折扣。

（三）发明内容

[0003] 为了克服现有技术中的不足，本实用新型提供一种汽车座椅或提篮可拆卸地安装在童车上的多功能童车，结构简单，使用方便。

[0004] 本实用新型解决其技术问题的技术方案是：

[0005] 一种多功能童车，包括车身、车架与车轮，车身两侧设有侧扶手，所述的侧扶手上设置可拆卸装置，所述的可拆卸装置包括设置在侧扶手上的接收装置和可装卸在接收装置上的连接座，所述的接收装置包括设置在侧扶手上的凹槽，所述的凹槽内横向方向上固定有横杆，所述的连接座包括连接座壳体，壳体内设置有能扣入横杆的固定钩，固定钩与连接座壳体之间设置弹簧，弹簧连接按钮，且连接座固定在汽车座椅或提篮上。

[0006] 在童车的侧扶手上设置凹槽，凹槽内设置横杆，按下按钮，连接座通过固定钩锁定横杆，由于连接座固定在汽车座椅或提篮上，则汽车座椅或提篮就安装在童车上了。在拆卸时，只要按下按钮，固定钩从横杆中脱离就可以了，这时候，将汽车座椅安装在车上，或者可以手提提篮。在童车的侧扶手上设置可拆卸装置，使得汽车座椅或者提篮可以方便地安装或拿下，大大方便了用户。

[0007] 本实用新型的有益效果在于：本实用新型在童车的侧扶手上设置可拆卸装置，使得汽车座椅或者提篮可以方便地安装或拿下，大大方便了用户，且本实用新型结构简单，安装和拆卸都很简单。

（四）附图说明

[0008] 图 1 是本实用新型可拆卸装置的结构示意图；

[0009] 图 2 是本实用新型连接座的爆炸结构示意图；

[0010] 图 3 是本实用新型的结构示意图。

（五）具体实施方式

[0011] 下面结合附图和具体实施方式对本实用新型作进一步详细说明。

[0012] 如图 3 所示，一种多功能童车，包括车身、车架以及车轮，车架的两侧设有侧扶手 1，如图 1 所示，侧扶手上表面上设有凹槽 3，凹槽横向宽度方向悬空固定有一横杆 2，凹槽与横杆组成接收装置，侧扶手上还连接有能翻转的扶手盖 4，能盖住在凹槽上。如图 1、图 2 所示，另设有连接座 5，连接座 5 固定在汽车座椅或提篮 9 上，连接座可方便安装在接收装置上，连接座与接收装置组成侧扶手的可拆卸装置，连接座包括壳体 6，壳体背面设有连接座盖 7，壳体 6 内设置固定钩 8，且固定钩钩体能够伸出连接座，固定钩 8 与座壳体之间设置弹簧，弹簧连接按钮。按下按钮，将固定钩锁定横杆上，然后释放按钮，则汽车座椅和提篮 9 就连接在童车上了，如图 3 所示，而需要拆卸时，只需要将固定钩脱离就好了，这样，汽车座椅就可以方便地安装在汽车上，或者轻松地提提篮了。

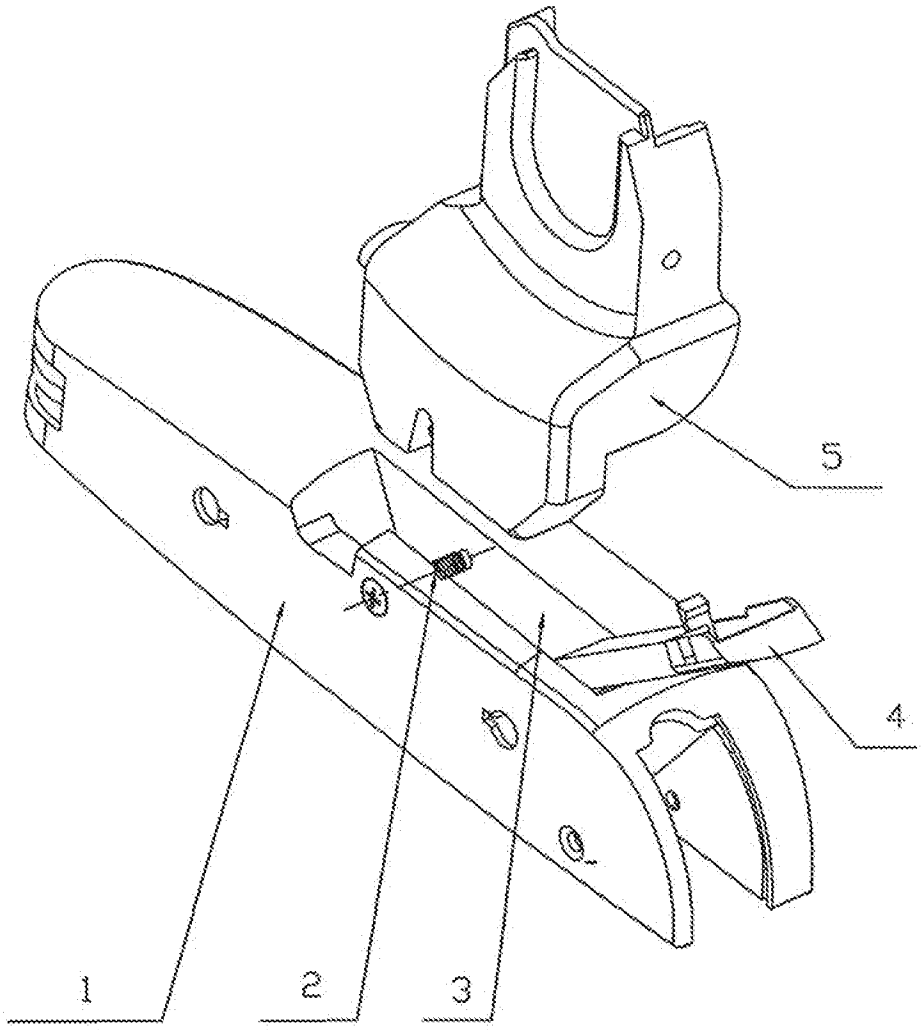


图 1