

**Notice of References Cited**

Application/Control No.  
17/061,578

Applicant(s)/Patent Under  
Reexamination  
Cadieu et al.

Examiner  
ASHISH S JASANI

Art Unit  
3793

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20210192720-A1	06-2021	Annangi; Pavan Kumar V.	A61B8/58	1/1
*	B	US-20190125298-A1	05-2019	ABOLMAESUMI; Purang	A61B8/4405	1/1
*	C	US-20030163058-A1	08-2003	Osyпка, Markus J.	A61B5/0295	600/513
*	D	US-20200178940-A1	06-2020	HARE, II; James Otis	G16H30/20	1/1
*	E	US-20190130554-A1	05-2019	Rothberg; Alex	G06T7/0002	1/1
*	F	US-20190104949-A1	04-2019	Cadieu; Charles	G16H30/40	1/1
	G					
	H					
	I					
	J					
	K					
	L					
	M					


**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Kusunose et al., "Clinically Feasible and Accurate View Classification of Echocardiographic Images Using Deep Learning," (25 April 2020), Biomolecules 2020, 10, 665. (Year: 2020)
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b><i>Search Notes</i></b> 	<b>Application/Control No.</b> 17/061,578	<b>Applicant(s)/Patent Under Reexamination</b> Cadieu et al.
	<b>Examiner</b> ASHISH S JASANI	<b>Art Unit</b> 3793

<b>CPC - Searched*</b>		
<b>Symbol</b>	<b>Date</b>	<b>Examiner</b>
(A61B8/065 OR A61B5/029 OR A61B8/5215 OR A61B5/7264).cpc. with limited text search	09/01/2023	ASJ

<b>CPC Combination Sets - Searched*</b>		
<b>Symbol</b>	<b>Date</b>	<b>Examiner</b>

<b>US Classification - Searched*</b>			
<b>Class</b>	<b>Subclass</b>	<b>Date</b>	<b>Examiner</b>

\* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

<b>Search Notes</b>		
<b>Search Notes</b>	<b>Date</b>	<b>Examiner</b>
Inventor/Assignee search PE2E & PDP	09/01/2023	ASJ
PE2E, ip.com, & NPL search	09/01/2023	ASJ

<b>Interference Search</b>			
<b>US Class/CPC Symbol</b>	<b>US Subclass/CPC Group</b>	<b>Date</b>	<b>Examiner</b>

/ASHISH S JASANI/ Examiner, Art Unit 3793	/JOEL LAMPRECHT/ Primary Examiner, Art Unit 3793
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# Web Search History

date, time	web site	search string
9/1/2023 11:30:32 AM	Google Patents	<b>Search Term 1</b> ("ejection fraction") <b>Inventor(s)</b> [Charles Cadieu]
9/1/2023 3:21:41 PM	Google	ejection fraction estimation image quality weighted average neural network
9/1/2023 3:21:48 PM	Google Scholar	ejection fraction estimation image quality weighted average neural network
9/1/2023 3:22:00 PM	Google Scholar	ejection fraction estimation image quality view weighted average neural network
9/1/2023 3:22:06 PM	Google Scholar	[after:2019] ejection fraction estimation image quality view weighted average neural network
9/1/2023 3:23:13 PM	Google Scholar	ejection fraction estimation image quality view weighted average neural network [before:2020]
9/1/2023 3:24:22 PM	Google Scholar	[before:2020] "ejection fraction" "image quality" view "weighted average" "neural network"
9/1/2023 3:32:13 PM	Google Scholar	weighted average of ejection fraction based on view quality [before:2020]
9/1/2023 3:45:55 PM	Google Scholar	[before:2020] weighted average of ejection fraction based on view quality
9/1/2023 3:49:59 PM	Google	weighted neighborhood
9/1/2023 3:50:18 PM	Google	deep learning ejection fraction weighted average
9/1/2023 3:50:23 PM	Google	deep learning ejection fraction weighted average view quality
9/1/2023 3:51:39 PM	Google	Deep Learning for Assessment of Left Ventricular Ejection Fraction from Echocardiographic Images
9/1/2023 4:03:08 PM	Google Scholar	[before:2020] ejection fraction neural network quality view



# Search History

**Report Run Date:** 2023-09-01 UTC

**Searches:** 8

**Markers:** 0

Search #	Timestamp	Results	Page
1	<a href="#">2023-09-01 19:46 UTC</a>	23,420,891	3
2	<a href="#">2023-09-01 19:46 UTC</a>	35,823,747	3
3	<a href="#">2023-09-01 19:49 UTC</a>	8,099,228	4
4	<a href="#">2023-09-01 20:02 UTC</a>	24,252,313	4
5	<a href="#">2023-09-01 20:02 UTC</a>	23,420,891	4
6	<a href="#">2023-09-01 20:15 UTC</a>	11,590,836	4
7	<a href="#">2023-09-01 20:15 UTC</a>	6,985,050	5
8	<a href="#">2023-09-01 20:15 UTC</a>	11,590,836	6

**Content: Patent Publications (169)**

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications

1 2023-09-01 19:46 UTC | 23,420,891 results from 

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text  
weighted average of ejection fraction based on view quality

Concept Modifiers: None

Filters: None

2 2023-09-01 19:46 UTC | 35,823,747 results from 

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text

weighted average of ejection fraction based on image view quality neural network

Concept Modifiers: None

Filters: None

3 2023-09-01 19:49 UTC | 8,099,228 results from 

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text

"weighted average" "ejection fraction" quality score

Concept Modifiers: None

Filters: None

4 2023-09-01 20:02 UTC | 24,252,313 results from 

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text

weighted average of ejection fraction neural network view score

Concept Modifiers: None

Filters: None

5 2023-09-01 20:02 UTC | 23,420,891 results from 

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: [Same as Search 1](#)

Concept Modifiers: None

Filters: None

6 2023-09-01 20:15 UTC | 11,590,836 results from 

De-Dup: None | Relevance Cut-off: None | Sort: Relevance


Main Concept: Text

deep learning view classification and ejection fraction estimation

Concept Modifiers: None

Filters: None

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 Content: Non-Patent Literature (23)

IEEE Xplore Publications: IEEE Periodicals | IEEE Xplore Publications: IEEE Conferences | IEEE Xplore Publications: IEEE Standards | IEEE Xplore Publications: IEEE Early Access | IEEE Xplore Publications: SMPTE Periodicals | IEEE Xplore Publications: SMPTE Conferences | IEEE Xplore Publications: SMPTE Standards | IEEE Xplore Publications: MIT Press

eBooks | IEEE Xplore Publications: Wiley-IEEE eBooks | IEEE Xplore Publications: IBM Periodicals | IEEE Xplore Publications: URSI Periodicals | IEEE Xplore Publications: VDE Conferences | IEEE Xplore Publications: Periodicals from China | IP.com Prior Art Database: The IP.com Journal | IP.com Prior Art Database: Internet Society RFC | IP.com Prior Art Database: IBM TDB Archive | IP.com Prior Art Database: Legacy Journals | IP.com Prior Art Database: Software Patent Institute | OnePetro.org: Periodicals at OnePetro.org | OnePetro.org: Conferences at OnePetro.org | Other Literature: IBM Redbooks | Other Literature: PubMed Central | Other Literature: arXiv.org

7 2023-09-01 20:15 UTC | 6,985,050 results from 

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Main Concept: Text

deep learning view classification and ejection fraction estimation

Concept Modifiers: None

Filters: None

## Content: Patent Publications (169)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe

8 2023-09-01 20:15 UTC | 11,590,836 results from 

**De-Dup:** None | **Relevance Cut-off:** None | **Sort:** Relevance

**Main Concept:** Text  
deep learning view classification and ejection fraction estimation

**Concept Modifiers:** None

**Filters:** None

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	6	((("CAPTION") near3 ("HEALTH") near3 ("INC"))).AS,AANM.	(USPAT)	OR	ON	ON	2023/09/01 10:08 AM
L2	12	((("CAPTION") near3 ("HEALTH") near3 ("INC"))).AS,AANM.	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/01 10:08 AM
L3	794	((("CADIEU") near3 ("Charles")) OR (("HONG") near3 ("Ha")) OR (("KOEPESELL") near3 ("Kilian")) OR (("CHAUDHRY") near3 ("Ali")) OR (("POILVERT") near3 ("Nicolas")) OR (("CANNON") near3 ("Michael")) OR (("PARAJULI") near3 ("Nripesh"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 10:08 AM
L4	16	((("CADIEU") near3 ("Charles")) OR (("HONG") near3 ("Ha")) OR (("KOEPESELL") near3 ("Kilian")) OR (("CHAUDHRY") near3 ("Ali")) OR (("POILVERT") near3 ("Nicolas")) OR (("CANNON") near3 ("Michael")) OR (("PARAJULI") near3 ("Nripesh"))).INV. AND (ejection near3 fraction)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 10:12 AM
L5	141	(quality near3 (metric OR score)) AND (ejection near3 fraction) AND (neural near3 network)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 10:17 AM
L6	10	((("CADIEU") near3 ("Charles"))).INV. AND (ejection near3 fraction)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 10:54 AM
L7	9	((("CADIEU") near3 ("Charles"))).INV. AND (ejection near3 fraction) AND quality	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 10:54 AM
L8	4	((("CAPTION") near3 ("HEALTH") near3 ("INC"))).AS,AANM. AND (ejection NEAR	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/01 11:18 AM

L9	4	fraction) (((("CAPTION") near3 ("HEALTH") near3 ("INC"))).AS,AANM. AND (ejection NEAR fraction)	(US-PGPUB; USPAT)	OR	ON	ON	2023/09/01 11:18 AM
L10	9	(quality near3 (metric OR score)) AND (ejection near3 fraction) AND (neural near3 network) AND (smooth* WITH filter)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:13 PM
L11	9	(quality near3 (metric OR score OR indicator)) AND (ejection near3 fraction) AND (neural near3 network) AND (smooth* WITH filter)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:15 PM
L12	29	(quality near3 (metric OR score OR indicator)) AND (ejection near3 fraction) AND (neural near3 network) AND (averag* WITH filter)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:16 PM
L13	30	(quality near3 (metric OR score OR indicator)) AND (ejection near3 fraction) AND (neural near3 network) AND (quality with2 weight)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:20 PM
L14	5	((quality near3 (metric OR score OR indicator)) SAME view) AND (ejection near3 fraction) AND (neural near3 network) AND (quality with2 weight)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:22 PM
L15	30	((("CADIEU") near3 ("Charles")).INV. AND quality	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:31 PM
L16	3	((("CADIEU") near3 ("Charles")).INV. AND weight	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:32 PM
L17	0	(L2 OR L3) AND (weight WITH quality)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:33 PM
L18	3	(L2 OR L3) AND (weight SAME quality)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:33 PM
L19	7	((quality near3 (metric OR score OR indicator)) SAME weight) AND (ejection near3 fraction) AND (neural near3	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:34 PM

L20	21	network) (quality near3 (metric OR score OR indicator)) AND (ejection near3 fraction) AND (neural near3 network) AND (quality WITH weight)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:36 PM
L21	8	(quality near3 (metric OR score OR indicator)) AND (ejection near3 fraction) AND (neural near3 network) AND (quality SAME weight SAME (averag* OR smooth*))	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:37 PM
L22	1	(neural near3 network) AND ( (ejection near3 fraction) SAME quality SAME weight SAME (averag* OR smooth*))	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:40 PM
L23	1	(neural near3 network) AND ( (ejection near3 fraction) with10 quality with10 weight with10 (averag* OR smooth*))	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:40 PM
L24	14	(neural near3 network) AND ( (ejection near3 fraction) with10 weight with10 (averag* OR smooth*))	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:41 PM
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L27	36	"20180218755"   "20180310920"   "20190015076"   "20190035047"   "20190114064"   "20190117186"   "20190117190"   "20190125298"   "20190266716").pn. OR ("10628932").urpn. AND (PGPB   USPT   USOC).dbnm. ("6112234"   "6370480"   "8081227"   "8235905"   "8581987"   "8891881"   "9734626"   "9760830"   "9918701"   "10127659"   "20050134942"   "20090073266"   "20090116713"   "20100087746"   "20110055447"   "20110109459"   "20120065510"   "20130141602"   "20130242116"   "20140133764"   "20150036888"   "20170322308"   "20170360399"   "20180061054"   "20180153505"   "20180161010"   "20180185011"   "20180218755"   "20180310920"   "20190015076"   "20190035047"   "20190114064"   "20190117186"   "20190117190"   "20190125298"   "20190266716").pn. OR ("10628932").urpn. AND (PGPB   USPT   USOC).dbnm. AND (averag* WITH weight*)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/09/01 12:42 PM
L28	21	(neural near3 network) AND ( (ejection near3 fraction) with10 weight* with10 (averag* OR smooth*))	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:42 PM
L29	7	(neural near3 network) AND ( (ejection near3 fraction) SAME quality SAME weight* SAME	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:42 PM

L30	10	(averag* OR smooth*) (neural near3 network) AND ( (ejection near3 fraction) SAME (weight* near3 average))	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 12:50 PM
L31	36	(quality near3 (metric OR score OR indicator)) AND (ejection near3 fraction) AND (view WITH weight*)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 02:58 PM
L32	18	(quality near3 (metric OR score OR indicator)) AND (ejection near3 fraction) AND ((weight* near3 (averag* OR mean)) SAME view)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 03:15 PM
L33	0	(view NEAR quality) AND (ejection near3 fraction) AND ((weight* near3 (averag* OR mean)) SAME view)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 03:24 PM
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L36	22	(view NEAR3 quality) AND (ejection near3 fraction) AND ((weight* near3 (averag* OR mean)) SAME view)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 03:25 PM
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L39	4	((ejection near3 fraction) WITH weight*) SAME quality) AND (neural WITH network)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 03:30 PM
L40	8	((ejection near3 fraction) SAME (weight* near3 (averag* OR mean) ) SAME quality)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 03:32 PM
L41	30	((deep near3 learning) OR (neural near3 network)) AND (view near2 classification) AND (ejection near2 fraction)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 04:14 PM
L42	17	((deep near3 learning) OR (neural near3	(US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	ON	2023/09/01 04:15 PM

L43	9	network)) AND (view near2 classification) AND (ejection near2 fraction) AND weighted ((deep near3 learning) OR (neural near3 network)) AND (view near2 classification) AND ((ejection near2 fraction) SAME weighted)	DERWENT)  (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 04:16 PM
L44	20624	(A61B8/065 OR A61B5/029 OR A61B8/5215 OR A61B5/7264).cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 04:46 PM
L45	112	(A61B8/065 OR A61B5/029 OR A61B8/5215 OR A61B5/7264).cpc. AND (weight* SAME ((ejection NEAR fraction) OR LVEF))	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 04:47 PM
L46	32	(A61B8/065 OR A61B5/029 OR A61B8/5215 OR A61B5/7264).cpc. AND (weight* WITH ((ejection NEAR fraction) OR LVEF))	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/09/01 04:47 PM

### PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.