

Doc code: PET.OP.AGE

Description: Petition to make special based on age/health

PTO/SB/130 (01-19)

Approved for use through 11/30/2020. OM 8065 1-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PETITION TO MAKE SPECIAL BASED ON AGE FOR ADVANCEMENT OF EXAMINATION UNDER 37 CFR 1.102(c)(1)					
Application Information					
Application Number	TBD	Confirmation Number	n/a	Filing Date	TBD
Attorney Docket Number (optional)	309-0011USDIVCIP	Art Unit	n/a	Examiner	n/a
First Named Inventor	Shih-Yuan WANG				
Title of Invention	MICROSTRUCTURE ENHANCED ABSORPTION PHOTSENSITIVE DEVICES				
<p>Attention: Office of Petitions</p> <p>An application may be made special for advancement of examination upon filing of a petition showing that the applicant is 65 years of age, or more. No fee is required with such a petition. See 37 CFR 1.102(c)(1) and MPEP 708.02 (II).</p> <p>APPLICANT HEREBY PETITIONS TO MAKE SPECIAL FOR ADVANCEMENT OF EXAMINATION IN THIS APPLICATION UNDER 37 CFR 1.102(c)(1) and MPEP 708.02 (II) ON THE BASIS OF THE APPLICANT'S AGE.</p> <p>A grantable petition requires one of the following items:</p> <ol style="list-style-type: none"> (1) Statement by one named inventor in the application that he/she is 65 years of age, or more; or (2) Certification by a registered attorney/agent having evidence such as a birth certificate, passport, driver's license, etc. showing one named inventor in the application is 65 years of age, or more. 					
<p>Name of inventor who is 65 years of age, or older</p>					
Given Name	Middle Name	Family Name	Suffix		
Shih-Ping		WANG			
<p>A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the format of the signature.</p> <p>Select (1) or (2):</p>					
<p><input type="checkbox"/> (1) I am an inventor in this application and I am 65 years of age, or more.</p> <p><input checked="" type="checkbox"/> (2) I am an attorney or agent registered to practice before the Patent and Trademark Office, and I certify that I am in possession of evidence, and will retain such in the application file record, showing that the inventor listed above is 65 years of age, or more.</p>					
Signature	/Ivan S. Kavrukov/	Date (YYYY-MM-DD)	November 22, 2021		
Name	Ivan S. Kavrukov	Registration Number	25,161		

This collection of information is required by 37 CFR 1.102(c)(1). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) a petition to make special based on age for advancement of examination. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed 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 COMPLETED FORMS TO THE CHIEF INFORMATION OFFICER. **Submit completed forms electronically over EFS-Web, or mail 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.

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 disclosure of these records is required by the Freedom of Information Act.
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 inspection 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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UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	309-0011USDIVCIP
	First Named Inventor	Shih-Yuan WANG
	Title	MICROSTRUCTURE ENHANCED ADSORPTION PHOTSENSITIVE DEVICES
	Priority Mail Express® Label No.	

<p style="text-align: center;">APPLICATION ELEMENTS</p> <p style="text-align: center;"><i>See MPEP chapter 600 concerning utility patent application contents.</i></p> <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (PTO/SB/17 or equivalent)</p> <p>2. <input checked="" type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27</p> <p>3. <input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.</p> <p>4. <input checked="" type="checkbox"/> Specification [Total Pages <u>92</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement)</p> <p>5. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>47</u>]</p> <p>6. <input checked="" type="checkbox"/> Inventor's Oath or Declaration [Total Pages <u>2</u>] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> A copy from a prior application (37 CFR 1.63(d))</p> <p>7. <input checked="" type="checkbox"/> Application Data Sheet * See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent)</p> <p>8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix)</p> <p><input type="checkbox"/> Landscape Table on CD</p> <p>9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required)</p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. <input type="checkbox"/> Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> Paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p>	<p style="text-align: center;">ADDRESS TO:</p> <p style="text-align: center;">Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450</p> <hr/> <p style="text-align: center;">ACCOMPANYING APPLICATION PAPERS</p> <p>10. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) Name of Assignee _____</p> <p>11. <input type="checkbox"/> 37 CFR 3.73(c) Statement (when there is an assignee) <input checked="" type="checkbox"/> Power of Attorney</p> <p>12. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>13. <input type="checkbox"/> Information Disclosure Statement (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached</p> <p>14. <input checked="" type="checkbox"/> Preliminary Amendment</p> <p>15. <input type="checkbox"/> Return Receipt Postcard (MPEP § 503) (Should be specifically itemized)</p> <p>16. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)</p> <p>17. <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.</p> <p>18. <input type="checkbox"/> Other: _____ _____ _____</p>
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*Note: (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 must be included in an Application Data Sheet (ADS).
 (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

The address associated with Customer Number: 139982 OR Correspondence address below

Name			
Address			
City	State	Zip Code	
Country	Telephone	Email	

Signature	/Ivan S. Kavrukov/	Date	November 22, 2021
Name (Print/Type)	Ivan S. Kavrukov	Registration No. (Attorney/Agent)	25,161

This collection of information is required by 37 CFR 1.53(b). 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 12 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.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	17532831
	Filing Date	2021-11-22
	First Named Inventor	Shih-Yuan WANG
	Art Unit	
	Examiner Name	Eduardo A. Rodela
	Attorney Docket Number	309-0011USDIVCIP

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	10411053		2019-09-10	Yokogawa	
	2	10522582		2019-12-31	Maruyama et al.	
	3	9000492		2015-04-07	Suzuki et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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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
	1	20160240579		2016-08-18	Sun et al.	
	2	20170141153		2017-05-18	Lee et al.	
	3	20180102442		2018-04-12	Wang et al.	

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	Examiner Name	Eduardo A. Rodela
	Attorney Docket Number	309-0011USDIVCIP

4	20200006407		2020-01-02	Yokogawa
5	20200006416		2020-01-02	Baba et al.
6	20050145779		2005-07-07	Mochizuki et al.
7	20120153416		2012-06-21	Tanaka et al.

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	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	0103255	WO		2001-01-11	Scott		
	2	2019018846	WO		2019-01-24	W&W Sens Devices Inc.		
	3	09040854	EP		1999-09-08	IBM United Kingdom Limited		
	4	2007013065	JP		2007-01-18	Matsushita Electric Works Ltd.		
	5	103956403	CN		2017-02-15	Suzhou Beipeng Photoelectric Technology Co. Ltd.		

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	Examiner Name	Eduardo A. Rodela
	Attorney Docket Number	309-0011USDIVCIP

NON-PATENT LITERATURE DOCUMENTS

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	Copy of International Search Report and Written Opinion for PCT/US2021/050717 mailed December 6, 2021.	
	2	B. F. LEVIN et al., 1 Gb/s Si High Quantum Efficiency Monolithically Integrable, Applied Physics Letters, AIP Publishing LLC, Vol. 66, No. 22, May 29, 1995, Pages 2984-2986.	
	3	GAO YANG et al., Photon-trapping Microstructures Enable High-speed High-efficiency Silicon Photodiodes, Nature Photonics, Vol. 11, No. 5, April 3, 2017, Pages 301-308.	

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Examiner Signature	<input type="text"/>	Date Considered	<input type="text"/>
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*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.

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	First Named Inventor	Shih-Yuan WANG
	Art Unit	
	Examiner Name	Eduardo A. Rodela
	Attorney Docket Number	309-0011USDIVCIP

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	/Ivan S. Kavrukov/	Date (YYYY-MM-DD)	2022-02-10
Name/Print	Ivan S. Kavrukov	Registration Number	25,161

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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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	10411053		2019-09-10	Yokogawa	
	2	10522582		2019-12-31	Maruyama et al.	
	3	9000492		2015-04-07	Suzuki et al.	

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	1	20160240579		2016-08-18	Sun et al.	
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	3	20180102442		2018-04-12	Wang et al.	

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	1	0103255	WO		2001-01-11	Scott		
	2	2019018846	WO		2019-01-24	W&W Sens Devices Inc.		
	3	09040854	EP		1999-09-08	IBM United Kingdom Limited		
	4	2007013065	JP		2007-01-18	Matsushita Electric Works Ltd.		
	5	103956403	CN		2017-02-15	Suzhou Beipeng Photoelectric Technology Co. Ltd.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	17532831
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	Art Unit	
	Examiner Name	Eduardo A. Rodela
	Attorney Docket Number	309-0011USDIVCIP

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	Copy of International Search Report and Written Opinion for PCT/US2021/050717 mailed December 6, 2021.	
	2	B. F. LEVIN et al., 1 Gb/s Si High Quantum Efficiency Monolithically Integrable, Applied Physics Letters, AIP Publishing LLC, Vol. 66, No. 22, May 29, 1995, Pages 2984-2986.	
	3	GAO YANG et al., Photon-trapping Microstructures Enable High-speed High-efficiency Silicon Photodiodes, Nature Photonics, Vol. 11, No. 5, April 3, 2017, Pages 301-308.	

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EXAMINER SIGNATURE

Examiner Signature	/EDUARDO A. RODELA/	Date Considered	02/10/2022
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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.

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Signature	/Ivan S. Kavrukov/	Date (YYYY-MM-DD)	2022-02-10
Name/Print	Ivan S. Kavrukov	Registration Number	25,161

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