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NOTICE OF ALLOWANCE AND FEE(S) DUE

127891 7590 Haris Zaheer Bajwa 3217 Wilderness Rd Durham, NC 27712 06/24/2021

EXAMINER OIN, JIANCHUN

ART UNIT P.

PAPER NUMBER

2837

DATE MAILED: 06/24/2021

L	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	15/641 147	07/03/2017	Reza Nasirizarandi	0040-0037-01000	3519

TITLE OF INVENTION: HYBRID HYSTERESIS MOTOR

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	09/24/2021

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

		PART 1	B - FEE(S) TRANS	SMITTAL			
Complete and send to:	his form, together v Mail Stop ISSUE I Commissioner for P.O. Box 1450 Alexandria, Virgir	FEE Patents), by mail or fax, or	via EFS-Web.	H	By fax, send to:	(571)-273-2885
INSTRUCTIONS: This fe further correspondence in below or directed otherw CURRENT CORRESPONDE 127891 Haris Zaheer B 3217 Wilderness Durham, NC 277	icluding the Patent, adva- ise in Block 1, by (a) specific specifi	nce orders and notification ecifying a new correspondance of a for any change of address)	n of maintenance fees wi dence address; and/or (b) N Fe pa ha	Il be mailed to the cuindicating a separatote: A certificate of tee(s) Transmittal. The pers. Each addition to the tist own certificate cereby certify that it ates Postal Service dressed to the Mail	rrent corresponder "FEE ADDE" mailing can on the control of the co	ndence address as in tests. The maintenance of the second	ndicated unless correcte ance fee notifications. lomestic mailings of th any other accompanying or formal drawing, mus
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTORNEY	DOCKET NO.	CONFIRMATION NO.
15/641,147 TITLE OF INVENTIONS	07/03/2017 : HYBRID HYSTERES	IS MOTOR	Reza Nasirizarandi		0040-00	37-01000	3519
APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	JE FEE TO	TAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	I	\$600	09/24/2021
EXAM	INER	ART UNIT	CLASS-SUBCLASS	٦			
QIN, JIAI	NCHUN	2837	310-162000	_			
Address form PTO/SB "Fee Address" indi SB/47; Rev 03-09 or n Number is required. 3. ASSIGNEE NAME AI PLEASE NOTE: Unle	ondence address (or Cha 3/122) attached. cation (or "Fee Address" nore recent) attached. Us ND RESIDENCE DATA ass an assignee is identificecordation, as set forth i	nge of Correspondence 'Indication form PTO/ se of a Customer	ta will appear on the pate:	to 3 registered pate tively, agle firm (having as r agent) and the nan torneys or agents. If the printed. The printed states of this form is NOT	a member a nes of up to no name is dentified below	13w, the document m	ust have been previousl; ent.
4b. Method of Payment: (☐Issue Fee ☐Pub Please first reapply any t via EFS-Web ☐	lication Fee (if required) previously paid fee show	Advance Order on above) Non-electronic payment	# of Copies	h form PTO-2	038)	ity 🖵 Government
Applicant asserting	cus (from status indicate g micro entity status. Se g small entity status. See g to regular undiscounted	e 37 CFR 1.29 37 CFR 1.27	NOTE: Absent a valid fee payment in the mic NOTE: If the application to be a notification of length of the NOTE: Checking this bentity status, as applica	to entity amount will on was previously ur loss of entitlement to lox will be taken to l	l not be accept ider micro enti micro entity s	ed at the risk of ap ty status, checking tatus.	plication abandonment. this box will be taken

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _

Typed or printed name

Date _

Registration No.

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/641,147		07/03/2017	Reza Nasirizarandi	0040-0037-01000	3519
127891	7590	06/24/2021		EXAM	IINER
Haris Zaheer Bajwa				QIN, JIA	NCHUN
3217 Wilderness				ART UNIT	PAPER NUMBER
Durham, NC 27	/12			2837	
				DATE MAILED: 06/24/202	1

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

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.

	Application No. 15/641,147		Applicant(s Nasirizarand	
Notice of Allowability	Examiner JIANCHUN QIN		Art Unit 2837	AIA (FITF) Status Yes
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sh (OR REMAINS) CLC or other appropriate GHTS. This applicati	SED in this appl communication v	lication. If not will be mailed	included in due course. THIS
1. ✓ This communication is responsive to 5/4/2021. ☐ A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was.	/were filed on	·		
2. An election was made by the applicant in response to a rest restriction requirement and election have been incorporated		et forth during th	ne interview o	n; the
3. The allowed claim(s) is/are 1,3,6-7 and 15-18. As a result of Prosecution Highway program at a participating intellectual please see http://www.uspto.gov/patents/init_events/pg	al property office for t	he correspondin	g application.	. For more information
4. Acknowledgment is made of a claim for foreign priority under Certified copies:	er 35 U.S.C. § 119(a)	o-(d) or (f).		
a) \square All b) \square Some *c) \square None of the:				
 Certified copies of the priority documents have Certified copies of the priority documents have 	e been received in A	· · · · · · · · · · · · · · · · · · ·		annlication from the
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	cuments nave been	received in this i	national stage	e application from the
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			complying wi	th the requirements
5. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.			
including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comr	nent or in the Of	fice action of	
Identifying indicia such as the application number (see 37 CFR 1 sheet. Replacement sheet(s) should be labeled as such in the he	·		gs in the front	t (not the back) of each
6. DEPOSIT OF and/or INFORMATION about the deposit of B attached Examiner's comment regarding REQUIREMENT F				
Attachment(s)				
1. Notice of References Cited (PTO-892)		aminer's Amendi		
2. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	_	aminer's Stateme	ent of Reasor	ns for Allowance
 3. Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. Interview Summary (PTO-413), Paper No./Mail Date 	7. ∐ Otł	ner		
/JIANCHUN QIN/ Primary Examiner, Art Unit 2837				

Application/Control Number: 15/641,147

Art Unit: 2837

DETAILED ACTION

Page 2

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

This examiner's amendment corrects minor objections to the Claims.

Claim 3, line 1, change "according to claim 2" into -- according to claim 1 --.

Claim 15, line 1, change "according to claim 2" into -- according to claim 1 --.

Claim 16, line 1, change "according to claim 2" into -- according to claim 1 --.

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Art Unit: 2837

Allowable Subject Matter

4. Claims 1, 3, 6-7 and 15-18 are allowed.

Reasons for Allowance

5. The following is a statement of reasons for the indication of allowable subject

matter:

The claims are allowable over the prior art for at least the reason that the prior art

fails to teach or suggest the specifics of the elements, element functions, and physical

interconnection as set forth in the claimed combination as recited in claim 1 of the

present application.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Contact Information

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to JIANCHUN QIN whose telephone number is (571)272-

5981. The examiner can normally be reached on 9AM-5:30PM EST M-F. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin

Enad can be reached on (571)272-1990.

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Art Unit: 2837

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.

/JIANCHUN QIN/ Primary Examiner, Art Unit 2837

	Application/Con
Search Notes	15/641,147
	Examiner
	JIANCHUN QII

Application/Control No.	Applicant(s)/Patent Under Reexamination
15/641,147	Nasirizarandi et al.
Examiner	Art Unit
JIANCHUN QIN	2837

CPC - Searched*				
Symbol	Date	Examiner		
H02K19/08 H02K1/02 H02K1/14 H02K1/146 H02K3/48 H02K16/02 H02K19/106	02/03/2020	JQ		
Above updated	06/10/2020	JQ		
Above updated	10/31/2020	JQ		
Above updated	06/19/2021	JQ		

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*				
Class	Subclass	Date	Examiner	
310	162	02/03/2020	JQ	
310	162	06/10/2020	JQ	
310	162	10/31/2020	JQ	

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

Application/Control No.	Applicant(s)/Patent Under Reexamination
15/641,147	Nasirizarandi et al.
Examiner	Art Unit
JIANCHUN QIN	2837

Search Notes			
Search Notes	Date	Examiner	
EAST text search	02/03/2020	JQ	
Inventor search	02/03/2020	JQ	
Google search	02/03/2020	JQ	
NPL search	02/03/2020	JQ	
Above updated	06/10/2020	JQ	
Above updated	10/31/2020	JQ	
EAST search updated	06/19/2021	JQ	
Claim search	06/19/2021	JQ	

Interference Search				
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner	
See	search history printout	06/19/2021	JQ	