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NOTICE OF ALLOWANCE AND FEE(S) DUE

20985

7590

07/13/2009

FISH & RICHARDSON, PC P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022

EXAMINER				
MUSLEH, MOHAMAD A				
ART UNIT	PAPER NUMBER			

2832 DATE MAILED: 07/13/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/558,844	10/05/2006	Ping Liu	20033-002US1	7080

TITLE OF INVENTION: ELECTRICAL SWITCH

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	10/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. 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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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ppropriate. All further ndicated unless correcte naintenance fee notifical	correspondence including below or directed oth tions.	g the Patent, advance on terwise in Block 1, by (a	rders and notification a) specifying a new co	of m	naintenance fees w pondence address;	rill be and/or	mailed to the current (b) indicating a separ	correspondence address a rate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(s	s) Transmittal. Thi rs. Each additional	s certif l paper	icate cannot be used for	domestic mailings of the or any other accompanying or formal drawing, must
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FISH & RICHA P.O. BOX 1022 MINNEAPOLIS	ARDSON, PC 5, MN 55440-1022			I her State addre trans	eby certify that these Postal Service weessed to the Mail mitted to the USP.	is Fee(ith suf Stop ΓΟ (57	s) Transmittal is being ficient postage for first ISSUE FEE address: 1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/558,844 TTLE OF INVENTION	10/05/2006 EELECTRICAL SWITC	Ή	Ping Liu				20033-002US1 FP050046US	7080
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055	10/13/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	;				
MUSLEH, M	OHAMAD A	2832	335-132000					
. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	nting on the patent front page, list mes of up to 3 registered patent attorneys OR, alternatively, me of a single firm (having as a member a attorney or agent) and the names of up to depatent attorneys or agents. If no name is name will be printed.				
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on the Tasubstitute for filing (B) RESIDENCE: (C	he pa g an a CITY	ntent. If an assignous ssignment. and STATE OR C	OUNT	TRY)	ocument has been filed for
lease check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	u	Individual 🖵 Co	rporati	on or other private gro	up entity 🖵 Government
a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 					
_ ~ .	tus (from status indicated s SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	□ b. Applicant is no	lone	sor claiming SMAI	I EN	ГІТҮ status. See 37 СF	(P 1 27(a)(2)
NOTE: The Issue Fee and	d Publication Fee (if requ		d from anyone other th	-	-			e assignee or other party in
·					Date			
Authorized Signature Typed or printed name								
his collection of inform	nation is required by 37 C tiality is governed by 35 d application form to the tons for reducing this bur firginia 22313-1450. DC	FR 1 311 The information	on is required to obtain	or resist or resistant	etain a benefit by t	ae publ	lic which is to file (and	by the USPTO to process; g gathering, preparing, and g gathering to complete rtment of Commerce, P.O or Patents, P.O. Box 1450.

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20985 75	590 07/13/2009		EXAM	INER
FISH & RICHAI	RDSON, PC		MUSLEH, M	OHAMAD A
P.O. BOX 1022			ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55440-1022			2832	
			DATE MAILED: 07/13/200	9

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

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

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.

	Application No.	Applicant(s)			
	10/558,844	LIU, PING			
Notice of Allowability	Examiner	Art Unit			
	MOHAMAD A. MUSLEH	2832			
The MAILING DATE of this communication apperall 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 RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 05/04/2009.	(OR REMAINS) CLOSED in the or other appropriate communing GHTS. This application is sub-	nis application. If not included cation will be mailed in due course.			
2. ☑ The allowed claim(s) is/are <u>7-25</u> .					
3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application cuments have been received in	No n this national stage application fron			
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. 4. A SUBSTITUTE OATH OR DECLARATION must be submit	ENT of this application. itted. Note the attached EXAM	INER'S AMENDMENT or NOTICE			
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2 ho Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material /Mohamad A Musleh/ Examiner, Art Unit 2832	6. ☐ Interview Sum Paper No./Ma 7. ☐ Examiner's Ar —	mal Patent Application Imary (PTO-413), ail Date nendment/Comment atement of Reasons for Allowance			

Application/Control Number: 10/558,844 Page 2

Art Unit: 2832

Allowable Subject Matter

1. Claims 7-25 are allowed.

- 2. Claims 8-10, 13, 16 and 18-25 will be rejoined, because upon the allowance of a generic claim, applicant is entitled to consideration of claims to additional species, which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 3. The following is an examiner's statement of reasons for allowance: as to claims 7-16, patentability resides, at least in part, an electrical switch comprising: an electromagnetism drive mechanism, and a bedplate, a movable bolt connected with the movable contacts, a movable iron core connected with the movable bolt to allow the movable bolt to move based on a movement of the movable iron core, and an electromagnetic holding mechanism disposed on the bedplate to hold the movable and stationary contacts to connect the circuit after the movable and stationary contacts are connected, wherein the holding mechanism has an electromagnetic iron, and one of a pothook or a baffle, wherein when the electromagnetic drive mechanism is powered on, the movable iron core is attracted so that the movable bolt is configured to be driven by the movable iron to move to a position, where the pothook hitches the movable bolt or

the baffle rams the movable bolt, and the movable contacts move to contact with the stationary contacts, and then the electromagnetic iron of the holding mechanism is powered on to cause the pothook or the baffle to be attracted by the electromagnetic iron to further keep the movable and stationary contacts closed.

4. As to **claims 17-25**, patentability resides, at least in part, an elasticity holding mechanism disposed on the bedplate to hold the movable and stationary contacts to connect the circuit after the movable and stationary contacts are connected, wherein the holding mechanism comprises a spring, a stop button, and a reset button in combination, a pothook or a baffle, and wherein the pothook or the baffle abuts against and contacts with the movable bolt by elasticity, wherein when the electromagnetic drive mechanism is powered on, the movable iron core is attracted so that the movable bolt is driven by the movable iron to move to a position, where the pothook hitches the movable bolt or the baffle rams the movable bolt, and the movable contacts move to contact with the stationary contacts, and then the pothook is hitched or the baffle is rammed by the elasticity of the spring to further keep the movable and stationary contacts closed, and the pothook or the baffle is parted from the movable bolt by pressing the stop button.

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."

Application/Control Number: 10/558,844 Page 4

Art Unit: 2832

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Mohamad A. Musleh** whose telephone number is (571) 272-9086. The examiner can normally be reached on Off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. 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**.

/Mohamad A Musleh/ Examiner, Art Unit 2832 /Lincoln Donovan/

Supervisory Patent Examiner, Art Unit 2816