

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Patent Number	Issue Date	Application Number	Filing Date	Docket Number (if applicable)
7475622	13-Jan-2009	11977779	26-Oct-2007	

CAUTION: Maintenance fee (and surcharge, if any) payment must correctly identify: (1) the patent number and (2) the application number of the actual U.S. application leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).

Applicants claims the following fee status:

☒ Small Entity

☐ Micro Entity

☐ Regular Undiscounted

Applicants selects the following :

☐ 3 1/2

☒ 7 1/2

☐ 11 1/2

PETITION FEE

The petition fee required by 37 CFR 1.17(m) (Fee Code 1558/2558) must be paid as a condition of accepting unintentionally delayed payment of the maintenance fee.

MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition.

STATEMENT

THE UNDERSIGNED CERTIFIES THAT THE DELAY IN PAYMENT OF THE MAINTENANCE FEE TO THIS PATENT WAS UNINTENTIONAL.

PETITIONER(S) REQUEST THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT REINSTATED

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

37 CFR 1.378(c) states: "Any petition under this section must be signed in compliance with 37 CFR 1.33(b) ."

I certify, in accordance with 37 CFR 1.4(d)(4) that I am

- ☐ An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application.
- ☐ An attorney or agent registered to practice before the Patent and Trademark Office
- ☒ A sole patentee
- ☐ A joint patentee; I certify that I am authorized to sign this submission on behalf of all the other patentees as evidenced by the power of attorney in the application
- ☐ A joint patentee; all of whom are signing this e-petition
- ☐ The assignee of record of the entire interest that qualifies as an authorized party under 37 CFR 1.33(b)

Sole Patentee	
A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.	
Signature	/CHIU TSUN CHANG/
Name	CHIU TSUN CHANG

Electronic Patent Application Fee Transmittal				
Application Number:		11977779		
Filing Date:		26-Oct-2007		
Title of Invention:		SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE		
First Named Inventor/Applicant Name:		Yueh-Hsun Chang		
Filer:		YU FANG LO		
Attorney Docket Number:		SII-001		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
MAINTENANCE FEE DUE AT 7.5 YEARS	2552	1	1800	1800
PET. DELAY PYMT MAINTAIN PATENT IN FORCE	2558	1	850	850
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				2650



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 7475622
Issue Date: January 13, 2009
Application No. 11977779
Filed: October 26, 2007
Attorney Docket No. SII-001

:DECISION GRANTING PETITION
:UNDER 37 CFR 1.378(b)

This is a decision on the electronic petition, filed April 12, 2017, under 37 CFR 1.378(b) to accept the unintentionally delayed payment of the 7.5 year maintenance fee for the above-identified patent.

The petition is **GRANTED**.

The maintenance fee is accepted, and the above-identified patent reinstated as of April 12, 2017. This decision also constitutes notice that the fee has been accepted. An electronic copy of the petition and this decision has been created as an entry in the Image File Wrapper. Nevertheless, petitioner should print and retain an independent copy.

Telephone inquiries related to this electronic decision should be directed to the Electronic Business Center at 1-866-217-9197.

Electronic Acknowledgement Receipt

EFS ID:	28899991
Application Number:	11977779
Patent Number:	7475622
Confirmation Number:	3657
Petition Issued Date:	April 12,2017
Title of Invention:	SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE
First Named Inventor/Applicant Name:	Yueh-Hsun Chang
Customer Number:	85506
Filer:	YU FANG LO
Filer Authorized By:	
Attorney Docket Number:	SII-001
Receipt Date:	12-APR-2017
Filing Date:	26-OCT-2007
Time Stamp:	06:45:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$2650
RAM confirmation Number	041217INTEFSW00007195504301
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	petition-request.pdf	32079 dd2ca4641311b0fb325c8ccce081d950c76573c6	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	31820 c0139a0d7c99a118fc02eda750a3003ac91e70562	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			63899		
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. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

USPTO
RECEIVED ACCOUNTING
2009 FEB 26 PM 12:54

PATENT
Attorney Docket No. S11-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Chang CONFIRMATION NO.: 3657
PATENT NO.: 7,475,622 ISSUE DATE: January 13, 2009
APPLICATION NO.: 11/977,779 GROUP NO.: 3632
FILING DATE: October 26, 2007 EXAMINER: Ramirez, Ramon O.
TITLE: Supporting Device for Mounting a Protective Cover to Shield a Cutting Blade of a Cutting Machine

Mail Stop PGPUB
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR REFUND OF PRE-GRANT PUBLICATION FEE

Sir:

Applicant requests a refund of the Pre-Grant Publication fee (\$300) for the above-identified patent, in accordance with MPEP 1126. Applicant timely paid the Pre-Grant Publication fee, as required by 37 C.F.R. 1.211(e). Applicant is entitled to a refund of the Pre-Grant Publication fee because the application did not publish pre-grant or post-grant. As required by MPEP 1126, this request is being submitted after four weeks from the issue date of the patent.

Please credit \$300 to Deposit Account 50-1721.

The Office is invited to contact the undersigned attorney with any questions relating to this submission.

Respectfully submitted,

Adjusted date: 03/05/2009 RDWELL
12/03/2009 Date: February 25, 2009 1197779
02 FC-1504 Reg. No.: 58,175 CR

Tel. No.: (617) 951-9052
Fax No.: (617) 261-3175

BOS-1280915 v1

Refund Ref: 0030067349
James A. Culverwell
Attorney for the Applicant
K&L Gates LLP
State Street Financial Center
One Lincoln Street
Boston, Massachusetts 02111-2950
Refund Total: \$300.00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Chang CONFIRMATION NO.: 3657
PATENT NO.: 7,475,622 ISSUE DATE: January 13, 2009
APPLICATION NO.: 11/977,779 GROUP NO.: 3632
FILING DATE: October 26, 2007 EXAMINER: Ramirez, Ramon O.
TITLE: Supporting Device for Mounting a Protective Cover to Shield a Cutting
Blade of a Cutting Machine

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Commissioner for Patents
P.O. Box 1450
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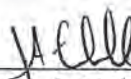
Please credit \$300 to Deposit Account 50-1721.

The Office is invited to contact the undersigned attorney with any questions relating to this submission.

Respectfully submitted,

Date: February 25, 2009
Reg. No.: 58,175

Tel. No.: (617) 951-9052
Fax No.: (617) 261-3175



James A. Culverwell
Attorney for the Applicant
K&L Gates LLP
State Street Financial Center
One Lincoln Street
Boston, Massachusetts 02111-2950

Electronic Acknowledgement Receipt

EFS ID:	4854147
Application Number:	11977779
International Application Number:	
Confirmation Number:	3657
Title of Invention:	SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE
First Named Inventor/Applicant Name:	Yueh-Hsun Chang
Customer Number:	22832
Filer:	James A. Culverwell
Filer Authorized By:	
Attorney Docket Number:	SII-001
Receipt Date:	25-FEB-2009
Filing Date:	26-OCT-2007
Time Stamp:	19:49:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Refund Request	SII-001.pdf	86242 015a2c424917713e9504d90664e957d6b0 x506c	no	1

Warnings:

Information:

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 a 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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PTO/SB/123 (11-06)

Approved for use through 11/30/2011. OMB 0651-0035

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.

CHANGE OF CORRESPONDENCE ADDRESS Patent

Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Patent Number	7,475,622
Issue Date	01-13-2009
Application Number	11/977,779
Filing Date	10-26-2007
First Named Inventor	Yueh-Hsun Chang
Attorney Docket Number	

Please change the Correspondence Address for the above-identified patent to:



The address associated with Customer Number:

85506

OR

Firm or
Individual Name

Address

City

State

ZIP

Country

Telephone

Email

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:



Patentee.

Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/98).

Attorney or agent of record. Registration Number _____

Signature

Typed or
Printed Name Chiu-Tsun Chang

Date

Feb 22, 2009

Telephone 886-4-23591000

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.



*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 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: Mail Stop Post Issue, 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.



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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/977,779	01/13/2009	7475622	SII-001	3657

22832 7590 12/22/2008
K&L Gates LLP
STATE STREET FINANCIAL CENTER
One Lincoln Street
BOSTON, MA 02111-2950

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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 (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Yueh-Hsun Chang, Nan-Tou Hsien, TAIWAN;

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
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/977,779	10/26/2007	Yuch-Hsun Chang	SII-001	3657

TITLE OF INVENTION: SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE

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	01/09/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
RAMIREZ, RAMON O	3632	248-316100

1. 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.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 K&L Gates LLP

2

3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

P & F Brother Industrial Corporation

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Taichung, Taiwan

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. 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 50-1721 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

James A. Culverwell

Date December 9, 2008

Typed or printed name

James A. Culverwell

Registration No. 58,175

This collection of information 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 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, 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.

Electronic Patent Application Fee Transmittal				
Application Number:		11977779		
Filing Date:		26-Oct-2007		
Title of Invention:		SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE		
First Named Inventor/Applicant Name:		Yueh-Hsun Chang		
Filer:		James A. Culverwell/Debra Doherty		
Attorney Docket Number:		SII-001		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	2501	1	755	755
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1055

Electronic Acknowledgement Receipt

EFS ID:	4418855
Application Number:	11977779
International Application Number:	
Confirmation Number:	3657
Title of Invention:	SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE
First Named Inventor/Applicant Name:	Yueh-Hsun Chang
Customer Number:	22832
Filer:	James A. Culverwell
Filer Authorized By:	
Attorney Docket Number:	SII-001
Receipt Date:	09-DEC-2008
Filing Date:	26-OCT-2007
Time Stamp:	12:27:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1055
RAM confirmation Number	7382
Deposit Account	501721
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	SII-001_Issue_Fee.pdf	204314 c4d0c6e67aee1706c18ad00b14ce1e1801 9df7	no	1

Warnings:

Information:

2	Fee Worksheet (PTO-06)	fee-info.pdf	32062 151c79078a08869f2b2a0b3fb1babaca3a5a 58d	no	2
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Warnings:

Information:

Total Files Size (in bytes):	236376
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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

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New International Application Filed with the USPTO as a Receiving Office

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22832 7590 10/09/2008

K&L Gates LLP
STATE STREET FINANCIAL CENTER
One Lincoln Street
BOSTON, MA 02111-2950

EXAMINER

RAMIREZ, RAMON O

ART UNIT

PAPER NUMBER

3632

DATE MAILED: 10/09/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/977,779	10/26/2007	Yueh-Hsun Chang	SII-001	3657

TITLE OF INVENTION: SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE

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	01/09/2009

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
or Fax **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

22832 7590 10/09/2008

K&L Gates LLP
STATE STREET FINANCIAL CENTER
One Lincoln Street
BOSTON, MA 02111-2950

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/977,779	10/26/2007	Yueh-Hsun Chang	SII-001	3657

TITLE OF INVENTION: SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE

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	01/09/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
RAMIREZ, RAMON O	3632	248-316100

1. 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.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. 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).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information 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 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, 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.



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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.
11/977,779	10/26/2007	Yuch-Hsun Chang	SII-001	3657
22832	7590	10/09/2008	EXAMINER	
K&L Gates LLP STATE STREET FINANCIAL CENTER One Lincoln Street BOSTON, MA 02111-2950			RAMIREZ, RAMON O	
			ART UNIT	PAPER NUMBER
			3632	
DATE MAILED: 10/09/2008				

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.

Notice of Allowability	Application No.	Applicant(s)	
	11/977,779	CHANG, YUEH-HSUN	
	Examiner	Art Unit	
	RAMON O. RAMIREZ	3632	

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY 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.

1. ☒ This communication is responsive to original filing.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - 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)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF 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) ☐ to 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)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. ☒ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftsperson'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 | <ol style="list-style-type: none"> 5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____ 7. ☐ Examiner's Amendment/Comment 8. ☒ Examiner's Statement of Reasons for Allowance 9. ☐ Other _____ |
|--|--|

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: none of the art of record discloses a supporting device for mounting a protective cover to shield a cutting blade of a cutting machine comprising the elements of claim 1, wherein the biasing member acquires an increment of a biasing force biasing the front end of the shank towards the supporting frame counteracting the axial friction force to keep the actuating member in a tightening position.

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."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAMON O. RAMIREZ whose telephone number is (571) 272-6821. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allen Shriver can be reached on (571) 272-6698. 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.

/RAMON O. RAMIREZ/
Primary Examiner, Art Unit 3632

ROR
October 6, 2008

Notice of References Cited	Application/Control No. 11/977,779		Applicant(s)/Patent Under Reexamination CHANG, YUEH-HSUN	
	Examiner RAMON O. RAMIREZ		Art Unit 3632	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0051008	03-2005	Granger, Maurice	083/335
*	B	US-2001/0045149	11-2001	Granger, Maurice	83/335
*	C	US-7,159,586	01-2007	Governo, Anthony J.	125/13.03
*	D	US-5,890,292	04-1999	Stark et al.	30/124
*	E	US-5,531,147	07-1996	Serban, George	83/478
*	F	US-2008/0083313	04-2008	Chuang, Bor-Yann	83/473
*	G	US-2006/0000328	01-2006	Terashima et al.	083/471.3
*	H	US-2007/0277661	12-2007	Domeny et al.	083/477.2
*	I	US-2007/0113715	05-2007	Burke et al.	083/102.1
*	J	US-2007/0113714	05-2007	Burke et al.	083/102.1
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	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.

Issue Classification 	Application/Control No. 11977779	Applicant(s)/Patent Under Reexamination CHANG, YUEH-HSUN
	Examiner RAMON O RAMIREZ	Art Unit 3632

ORIGINAL						INTERNATIONAL CLASSIFICATION												
CLASS		SUBCLASS				CLAIMED					NON-CLAIMED							
83		477.2				B	2	3	D	19 / 00 (2006.01.01)								
CROSS REFERENCE(S)																		
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)																	
83	478																	

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														

NONE		Total Claims Allowed:	
		9	
(Assistant Examiner)	(Date)		
/RAMON O RAMIREZ/ Primary Examiner, Art Unit 3632	10/06/08	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	66287	"cutting blade"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:26
L2	12644	1 same (mount or support or holder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:26
L3	28	2 same (protective adj3 cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:27
L4	171	2 and (protective adj3 cover)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:27
L5	34477	"cutting machine"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:44
L6	4183	5 same blade	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:44
L7	173	6 same cover	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:45
L8	170	7 not 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:45
L9	113323	"248"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:59

L10	70	9 and "cutting blade"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 07:59
L16	8264	table with saw	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 09:53
L17	3634	16 same blade	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 09:53
L18	275	17 same cover	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 09:53
L19	273	18 not 7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 09:54
L20	273	19 not 4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 09:54
L22	0	("2007/0277661").URPN.	USPAT	OR	ON	2008/10/06 10:06
L24	46100	(Yush-Hsung Chang).inv.	US-PGPUB; USPAT	OR	ON	2008/10/06 10:33
L25	79	24 and "cutting blade"	US-PGPUB; USPAT	OR	ON	2008/10/06 10:33

10/6/08 10:52:53 AM

C:\Documents and Settings\RRamirez\My Documents\EAST\default.wsp

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L40	413	(mount and ("cutting blade") and shield and "cam actuating" and bolt and frame and handgrip and spring)". clm"	US-PGPUB	OR	ON	2008/10/06 15:53

10/ 6/ 08 3:54:21 PM

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Search Notes 	Application/Control No. 11977779	Applicant(s)/Patent Under Reexamination CHANG, YUEH-HSUN
	Examiner RAMON O RAMIREZ	Art Unit 3632

SEARCHED			
Class	Subclass	Date	Examiner
83	477.2,478,102.1,581	10/06/08	ROR
30	391		
144	356		
248	316.1,274.1,289,1,200,694,		

SEARCH NOTES			
Search Notes		Date	Examiner
EAST TEST SEARCH DONE		10/06/08	ROR
CLASS 83 INQUIRED EXMR BOYER (TO ALLOW AND XR IN CLASS 83)			
IINTERENCE SEARCH HISTORY PRINT OUT ENCLOSED			

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
	SEE SEARCH NOTES	10/6/08	ROR

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BIB DATA SHEET

CONFIRMATION NO. 3657

SERIAL NUMBER 11/977,779	FILING or 371(c) DATE 10/26/2007 RULE	CLASS 403	GROUP ART UNIT 3632	ATTORNEY DOCKET NO. SI-001		
APPLICANTS Yueh-Hsun Chang, Nan-Tou Hsien, TAIWAN; ** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 11/27/2007						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☐ No Verified and /RAMON O RAMIREZ/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY TAIWAN	SHEETS DRAWINGS 11	TOTAL CLAIMS 9	INDEPENDENT CLAIMS 1
ADDRESS K&L Gates LLP STATE STREET FINANCIAL CENTER One Lincoln Street BOSTON, MA 02111-2950 UNITED STATES						
TITLE Supporting device for mounting a protective cover to shield a cutting blade of a cutting machine						
FILING FEE RECEIVED 515	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit			



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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
11/977,779	10/26/2007	3679	515	SII-001	9	1

CONFIRMATION NO. 3657

22832

FILING RECEIPT

Kirkpatrick & Lockhart Preston Gates Ellis LLP
(FORMERLY KIRKPATRICK & LOCKHART NICHOLSON GRAHAM)
STATE STREET FINANCIAL CENTER
One Lincoln Street
BOSTON, MA 02111-2950



0C000000026937570

Date Mailed: 11/29/2007

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Applicant(s)

Yueh-Hsun Chang, Nan-Tou Hsien, TAIWAN;

Assignment For Published Patent Application

P&F Brother Industrial Corporation, Taichung, TAIWAN

Power of Attorney: The patent practitioners associated with Customer Number 022832

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 11/27/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/977,779**

Projected Publication Date: 04/30/2009

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Supporting device for mounting a protective cover to shield a cutting blade of a cutting machine

Preliminary Class

403

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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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

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APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/977,779	10/26/2007	Yueh-Hsun Chang	SII-001

CONFIRMATION NO. 3657

22832

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STATE STREET FINANCIAL CENTER
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BOSTON, MA 02111-2950

Date Mailed: 11/29/2007

NOTICE OF NEW OR REVISED PROJECTED PUBLICATION DATE

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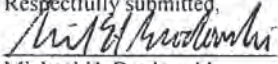
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PART 1 - ATTORNEY/APPLICANT COPY

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UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	SII-001	11/977779
	First Named Inventor	Chang	10/26/2007
	Title	Supporting Device for Mounting a Protective Cover to Shield a Cutting Blade of a Cutting Machine	

APPLICATION ELEMENTS		ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
1. ☒ Fee Transmittal Form 2. ☒ Small Entity Status ☒ Applicant claims small entity status ☐ Status established in prior application and is still proper and desired		ACCOMPANYING APPLICATION PARTS	
3. ☒ Specification and Drawings [Total Pages 32] - Written Description - (14 pages) - Claims - (6 pages) - Abstract - (1 page) - Sheets of Drawings - (11 sheets) ☒ Formal ☐ Informal		8. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney 9. ☐ English Translation Document (if applicable) 10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations	
4. ☒ Oath or Declaration [Total Pages 2] a. ☒ Newly executed (original) b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below]		11. ☐ Preliminary Amendment ☐ Drawings [Total Sheets] 12. ☒ Return Receipt Postcard (specifically itemized)	
5. ☐ Incorporation by Reference (usable if Box 4b is checked) The entire Disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.		13. ☐ Certified Copy of Priority Document(s) (if foreign priority claimed) 14. ☐ Nonpublication Request Under 35 U.S.C. 122(b)	
6. ☒ Application Data Sheet		15. ☐ CD in duplicate for large table or computer program	
7. ☐ Nucleotide and/or Amino Acid Sequence Submission ☐ Computer Readable Form (CRF) ☐ Paper Copy (identical to computer copy) ☐ CD (2 copies) (identical to computer copy) ☐ Statement verifying identity of above copies		16. ☐ Other:	
17. ☐ If a CONTINUING APPLICATION: Amend the specification by inserting on page 1, before the first line, the sentence: --This is a ☐ continuation ☐ divisional ☐ continuation-in-part of prior application Serial No. / , filed on , , the entire disclosure of which is incorporated by reference herein.-- Priority to the above application(s) is claimed under 35 U.S.C. 120. Prior application information: Examiner: _____ Group/Art Unit: _____			
18. ☐ Priority - 35 U.S.C. 119 ☐ Priority of application Serial No. _____ filed on _____ in _____ is claimed under 35 U.S.C. 119. ☐ The certified copy has been filed in prior U.S. application Serial No. ____/____ on ____. ☐ The certified copy will follow.			
CORRESPONDENCE ADDRESS		SIGNATURE BLOCK	
Direct all correspondence to: Patent Administrator Kirkpatrick & Lockhart Preston Gates Ellis LLP State Street Financial Center One Lincoln Street Boston, MA 02111-2950 Tel. No.: (617) 261-3100 Fax No.: (617) 261-3175 Customer No. 022832		Respectfully submitted,  Date: October 26, 2007 Reg. No. 41,640 Tel. No.: (617) 261-3113 Fax No.: (617) 261-3175 Michael H. Brodowski Attorney for Applicant Kirkpatrick & Lockhart Preston Gates Ellis LLP State Street Financial Center One Lincoln Street Boston, MA 02111-2950	

102607

17414 U.S. PTO

**FEE TRANSMITTAL
FY 2007***Complete if Known*

Application Serial Number	Not yet assigned
Filing Date	Herewith
First Named Inventor	Chang
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket No.	SII-001
Confirmation No.	Not yet assigned

METHOD OF PAYMENT

1. ☒ Payment Enclosed:
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2. ☒ The Commissioner is hereby authorized to credit or charge any fee indicated below for this submission to Deposit Account No. 50-1721.
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☒ Additional fee required under 37 CFR 1.16 and 1.17.
☒ Overpayment Credit.
3. ☒ Applicant claims small entity status.

FEE CALCULATION**1. FILING/SEARCH/EXAM/SIZE FEES****Large Entity**

Fee (\$)	Fee Description	Fee Paid
310	Utility filing fee	310.00
510	Utility search fee	510.00
210	Utility exam fee	210.00
200	Utility size fee (each add'l 50 pgs. over 100)	
210	Design filing fee	
100	Design search fee	
130	Design exam fee	
260	Design size fee (each add'l 50 pgs. over 100)	

	Number Filed	Number Extra	Rate	Amount
Total Claims	9	- 20 = 0	x \$ 50.00 =	0.00
Independent Claims	1	- 3 = 0	x \$210.00 =	0.00

☐ Multiple Dependent Claim(s), if any \$370.00 =
TOTAL: \$1,030.00
SMALL ENTITY DISCOUNT: 515.00
SUBTOTAL (1) (\$) 515.00

2. AMENDMENT CLAIM FEES

Claims Remaining After Amend.	Highest No. Previously Paid For	Present Extra	Rate	Fee Paid
Total	-	=	x \$ 50.00 =	
Indep.	-	=	x \$210.00 =	
☐ First Presentation of Multiple Dep. Claim			+ \$370.00 =	
TOTAL:				(\$)
SMALL ENTITY DISCOUNT:				(\$)
SUBTOTAL (2)				(\$) 0.00

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

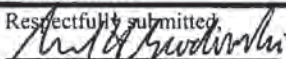
Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid
130	65	Surcharge - late filing fee or oath	
50	25	Surcharge - late provisional filing fee or cover sheet	
130	130	Non-English specification	
2,520	2,520	Request for ex parte reexamination	
120	60	Extension for reply within first month	
460	230	Extension for reply within second month	
1050	525	Extension for reply within third month	
1640	820	Extension for reply within fourth month	
2230	1115	Extension for reply within fifth month	
510	255	Notice of Appeal	
510	255	Filing a brief in support of an appeal	
1030	515	Request for oral hearing	
400	400	Petitions to the Commissioner (Gp. I)	
200	200	Petitions to the Commissioner (Gp. II)	
130	130	Petitions to the Commissioner (Gp. III)	
180	180	Submission of Information Disclosure Statement	
810	405	Filing a submission after final rejection (37 CFR 1.129(a))	
810	405	For each additional invention to be examined (37 CFR 1.129(b))	
100	100	Certificate of Correction for applicant's error	
130	65	Submission of Terminal Disclaimer	
Other fee (Specify)			
Other fee (Specify)			

SUBTOTAL (3) (\$) 0.00**SUBTOTAL (1)** 515.00**SUBTOTAL (2)** 0.00**SUBTOTAL (3)** 0.00**TOTAL** (\$) 515.00**CORRESPONDENCE ADDRESS**

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**SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD
A CUTTING BLADE OF A CUTTING MACHINE**

BACKGROUND OF THE INVENTION

1. Field of the Invention

5 This invention relates to a supporting device for mounting a protective cover to shield a cutting blade of a cutting machine, more particularly to a supporting device which is easily operated to be tightened firmly to a position of use or a retreat position.

10 **2. Description of the Related Art**

 In a conventional table cutting machine, such as a circular saw machine, a supporting device is disposed adjacent to a circular saw blade for mounting a protective cover to shield the circular saw blade. The supporting device is detachably disposed on a worktable so as not to obstruct specific working operation, such as cutting a slot in a workpiece.

 Referring to Fig. 1, a conventional supporting device 10 includes a fixed mount unit 11, a tightening mount unit 12 movably disposed on the fixed mount unit 11, and a control unit 13 disposed between the fixed and tightening mount units 11, 12. The fixed mount unit 11 has a fixed mount 111 secured on a tabletop (not shown) of a cutting machine. The fixed mount 111 has a sliding slot 112 in a side thereof for fitting of a tightening mount unit 12. The tightening mount unit 12 has a tightening plate 121 which is fitted to the sliding slot 112, a cam follower piece 122 which is embedded into

the tightening plate 121, and a limiting pin 123 which extends outwardly of the tightening plate 121. The control unit 13 has a tightening bolt 131, a cam piece 132 which meshes with the cam follower piece 122, a handgrip 133 which extends radially from the cam piece 132, and a limiting protrusion 134 which is disposed on the cam piece 132 to abut against the limiting pin 123. A clearance is present between the tightening plate 121 and a side of the fixed mount 111 for accommodating a lower portion of a supporting frame 1. An upper portion of the supporting frame 1 is adapted to hold a protective cover (not shown). When the user operates the handgrip 133 to rotate the cam piece 132, the cam follower piece 122 is pressed toward the fixed mount 111 so as to tighten the supporting frame 1 for positioning the protective cover on the cutting machine. However, the cam piece 132 may be rotated to cause movement of the cam follower piece 122 away from the tightening plate 121 when the machine is vibrated during the cutting operation, thereby resulting in undesired detachment of the supporting frame 1 from the tightening mount unit 12.

Referring to Fig. 2, another supporting device 20 includes a mounting unit 21, a supporting frame unit 22 and a control unit 23. The mounting unit 21 has a fixed mount 211 and a tightening plate 212. The supporting frame unit 22 has a supporting frame 221 which is disposed between the fixed mount 211 and the tightening plate 212, and which has an arcuate slot 2211. The control unit 23 has a tightening

bolt 231 which extends through the arcuate slot 2211 and into the fixed mount 211, two washers 232 which are sleeved on the tightening bolt 231, a guide pin 233 which is disposed on the tightening bolt 231, and a cam actuator 234 which is sleeved on the tightening bolt 231 at one end thereof, and which has a handgrip at the other end. The cam actuator 234 has a spirally extending groove 2341 which surrounds the tightening bolt 231 for guiding movement of the guide pin 233. Thus, when the user rotates the cam actuator 234, the cam actuator 234 can press the tightening plate 212 via the washers 232 towards the fixed mount 211 so as to tighten the supporting frame 221. However, undesired loosening of the supporting frame 221 may occur after a long-term use.

SUMMARY OF THE INVENTION

The object of the present invention is to provide a supporting device which is easily operated to be tightened firmly to a position of use or a retreat position relative to a cutting machine.

According to this invention, the supporting device includes a mount unit which is adapted to be secured to a cutting machine. The mount unit includes a major abutment wall which has a proximate tightening surface that has an axial hole extending therethrough along a tightening axis. A tightening bolt has a shank which passes through the axial hole, and which has front and rear ends, and an intermediate segment. A supporting frame has an upper end which is adapted to hold a protective cover, and a middle segment which has

proximate and distal tightened major surfaces opposite to each other along the tightening axis, and a guiding slot that extends through the proximate and distal tightened major surfaces to permit passage of the shank therethrough such that the middle segment is movable between a position of use where the shank is remote from the upper end, and a retreat position where the shank is closer to the upper end. A movable tightening member is sleeved on the shank, and has a thrust major wall which has a distal tightening surface to press the distal tightened major surface of the supporting frame so as to force the proximate tightened major surface to abut against the proximate tightening surface of the mount unit. The thrust major wall further has a cam follower surface which is opposite to the distal tightening surface, and which has first and second pressed areas that are angularly displaced from each other about the tightening axis, and that are respectively proximate to and distal from the distal tightening surface along the tightening axis. A cam actuating member includes an actuating body and a handgrip. The actuating body is sleeved on the shank, and has a cam surface and an outmost major surface opposite to each other. The cam surface has first and second pressing spots which are angularly displaced from each other about the tightening axis such that the first and second pressing spots are brought into contact with the first and second pressed areas respectively when the cam surface is brought to mate with the cam follower surface in a loosened position,

and such that, when the actuating body is turned about the tightening axis to a tightening position, the first pressing spot is displaced to contact the second pressed area with an axial frictional force so as to move the distal tightening surface to press the distal tightened major surface, thereby forcing the proximate tightened major surface to abut against the proximate tightening surface. The handgrip extends from the actuating body radially so as to turn the actuating body about the tightening axis between the loosened and tightening positions. A biasing member is disposed on the shank adjacent to the rear end of the shank such that, as a result of displacement of the actuating body to the tightening position, the biasing member acquires an increment of a biasing force which biases the front end of the shank towards the supporting frame so as to counteract the axial frictional force to thereby keep the actuating body in the tightening position.

BRIEF DESCRIPTION OF THE DRAWINGS

Other features and advantages of the present invention will become apparent in the following detailed description of the preferred embodiment of the invention, with reference to the accompanying drawings, in which:

Fig. 1 is a perspective view of a conventional supporting device;

Fig. 2 is a perspective view of another conventional supporting device;

Fig. 3 is an exploded perspective view of a preferred embodiment of a supporting device according to this

invention;

Fig. 4 is a perspective view of the preferred embodiment when assembled on a cutting machine;

5 Fig. 5 is a fragmentary schematic side view showing a supporting frame of the preferred embodiment in a position of use;

Fig. 6 is a sectional view of the preferred embodiment taken along lines 6-6 of Fig. 5 and showing a cam actuating member in a loosened position;

10 Fig. 7 is a fragmentary schematic side view showing the supporting frame in a retreat position;

Fig. 8 is a sectional view of the preferred embodiment taken along lines 8-8 of Fig. 7 and showing the cam actuating member in a tightening position;

15 Fig. 9 is an exploded perspective view of another preferred embodiment of a supporting device according to this invention;

Fig. 10 is a sectional view of the preferred embodiment shown in Fig. 9 when a cam actuating member is in a loosened position; and

20 Fig. 11 is a sectional view of the preferred embodiment shown in Fig. 9 when the cam actuating member is in a tightening position.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

25 Referring to Fig. 5, a preferred embodiment of a supporting device according to the present invention is adapted to be mounted on a cutting machine 100, such as a

table saw machine. The cutting machine 100 includes a machine body 101, a worktable 102 mounted on the machine body 101, a drive motor 103 mounted in the machine body 101, and a circular saw blade 104 mounted axially on the drive motor 103 to be driven to rotate about a rotating axis. The circular saw blade 104 has a working part that extends outwardly of the worktable 102 for working a workpiece (not shown) supported on the worktable 102. With reference to Figs. 3, 4 and 6, the supporting device of this embodiment is shown to comprise a mount unit 30, a tightening bolt 80, a supporting frame 40, a movable tightening unit 50, and a biasing member 60.

The mount unit 30 includes an elongated fixed mount 30 which is adapted to be secured to the drive motor 103 at a left end thereof, and which has a throughbore 312 at a right end 311 thereof. The throughbore 312 defines a tightening axis parallel to the rotating axis of the saw blade 104. The mount unit 30 further includes a movable mount 32 which has a major abutment wall 320 that is disposed forwardly of the right end 311 of the fixed mount 31 along the tightening axis, and that has an elongated axial hole 323 extending therethrough and coaxial with the throughbore 312. The major abutment wall 320 has a proximate tightening surface 326 facing forwardly.

The movable mount 32 has an anchoring wall 327 which extends rearwardly from an upper edge of the major abutment wall 320, and which has a pair of positioning holes 322 that

extend therethrough and that are elongated in a longitudinal direction parallel to the tightening axis. A pair of first screw fasteners 35 are disposed to respectively extend through the positioning holes, and are respectively and threadedly engaged with two screw holes 313 in the fixed mount 31. Thus, the position of the movable mount 32 relative to the fixed mount 31 in the longitudinal direction is adjustable by movement of the first screw fasteners 35 in the positioning holes 322 in the longitudinal direction. In addition, a second screw fastener 34 is threadedly engaged with a screw hole 321 in a center of the anchoring wall 327 and extends to abut against the fixed mount 31 so as to generate a depressing force to render an angular position of the major abutment wall 320 of the movable mount 32 relative to the fixed mount 31 adjustable by virtue of varying the depression force. Thus, the longitudinal and angular positions of the supporting frame 40 can be corrected to be in line with the saw blade 104.

Further, the major abutment wall 320 of the movable mount 32 has two limiting pins 324 and two retaining pins 325 which extend from the proximate tightening surface 326 and which are disposed upwardly, downwardly, leftwardly and rightwardly of the axial hole 323, respectively.

The tightening bolt 80 has a shank 81 which is configured to pass through the axial hole 323 and the throughbore 312, and which has front and rear ends 811, 812 opposite to each other in the tightening axis, and an intermediate segment

813 that is interposed between the front and rear ends 811, 812 and that has a non-circular cross-section so as to be movable relative to the major abutment wall 320 along the tightening axis. The tightening bolt 80 further has a screw nut 82 which
5 is threadedly engaged with the rear end 812 of the shank 81, and a flexible joint 83 which is received in the throughbore 312, which is sleeved on the intermediate segment 813 of the shank 81 between the screw nut 82 and the major abutment wall 320 of the movable mount 32, and which has
10 an accommodation chamber 831.

The supporting frame 40 has upper and lower ends 42, 43 opposite to each other, and a middle segment 41 interposed between the upper and lower ends 42, 43. The upper end 42 is adapted to hold a protective cover (not shown). The middle
15 segment 41 has proximate and distal tightened major surfaces 414, 415 opposite to each other along the tightening axis, and an arcuate guiding slot 411 which extends through the proximate and distal tightened major surfaces 414, 415 and which permits passage of the shank 81 therethrough. The
20 middle segment 41 further has two upper retaining holes 413 and two lower retaining holes 412 proximate to the upper and lower ends 42, 43, respectively. The guiding slot 411 is configured to permit the middle segment 41 to be movable between a position of use, as shown in Fig. 5, where the
25 shank 81 is remote from the upper end 42, and where the lower retaining holes 412 engage the retaining pins 325 so that the lower limiting pin 324 reaches a lowermost area of the

guiding slot 411, and a retreat position, as shown in Fig. 7, where the shank 81 is closer to the upper end 42, and where the upper retaining holes 413 engage the retaining pins 325 so that the upper limiting pin 324 reaches an uppermost area of the guiding slot 411. By means of the upper and lower retaining holes 413, 412 and the retaining pins 325 that serve as a retaining unit, the supporting frame 40 can be retained in a corresponding one of the position of use and the retreat position.

10 The movable tightening unit 50 includes a movable tightening member 51 and a cam actuating member 52. The movable tightening member 51 is sleeved on the intermediate segment 813 of the shank 81, and has a thrust major wall 511 to which the tightening axis is normal. The thrust major wall 511 has a distal tightening surface 512 which confronts and which is to be brought to press the distal tightened major surface 415 so as to force the proximate tightened major surface 414 to abut against the proximate tightening surface 326, and a cam follower surface 513 which is opposite to the distal tightening surface 512 along the tightening axis, and which is of a wedge shape. Specifically, as shown in Figs. 6 and 8, the cam follower surface 513 has first and second pressed areas (513a, 513b) which are angularly displaced from each other about the tightening axis, and which are respectively proximate to and distal from the distal tightening surface 512 along the tightening axis. In addition, the movable tightening member 51 further has

left and right limited pins 514 which are disposed on the thrust major wall 511 at an outer periphery of the cam follower surface 513 and which are radially opposite to each other.

5 The cam actuating member 52 includes an actuating body 521 and a handgrip 53. The actuating body 521 is sleeved on the intermediate segment 813 of the shank 81, and has a cam surface 522 and an outmost major surface 523 opposite to each other in the tightening axis to abut against the front end 811 of the shank 81. The cam surface 522 is of
10 a wedge shape. Specifically, as shown in Figs. 6 and 8, the cam surface 522 has first and second pressing spots (522a, 522b) which are angularly displaced from each other about the tightening axis such that, the first and second pressing spots (522a, 522b) are brought into contact with
15 the first and second pressed areas (513a, 513b), respectively, when the cam surface 522 is brought to mate with the cam follower surface 513 in a loosened position (as shown in Fig. 6), and such that, when the actuating body 521 is turned about the tightening axis to a tightening position (as shown
20 in Fig. 8), the first pressing spot (522a) is displaced to contact the second pressed area (513b) with an axial frictional force so as to move the distal tightening surface 512 to press the distal tightened major surface 415, thereby forcing the proximate tightened major surface 414 to abut
25 against the proximate tightening surface 326. The handgrip 53 is disposed to extend from the actuating body 521 radially so as to turn the actuating body 521 about the tightening

axis between the loosened and tightening positions. In addition, the actuating body 521 further has a limiting pin 524 which is disposed at an outer periphery thereof and which abuts against a corresponding one of the left and right limited pins 514 so as to restrict turning of the actuating body 521 within a certain range.

The biasing member 60 is a coil spring 60 in this embodiment. The coil spring 60 is disposed to surround the shank 81, and has an end abutting against the major abutment wall 320, and an opposite end which is received in the accommodation chamber 831 in the flexible joint 83. Thus, the coil spring 60 acquires a biasing force which urges the tightening bolt 80 and the movable tightening unit 50 rearwardly so as to force the middle segment 41 of the supporting frame 40 to abut against the proximate tightening surface 326. Moreover, the biasing force of the coil spring 60 is adjustable by threaded movement of the screw nut 82 while being kept in line with the tightening axis. Furthermore, as a result of displacement of the actuating body 521 to the tightening position, as shown in Fig. 8, the coil spring 60 is being compressed to acquire an increment of the biasing force which can bias the front end 811 of the shank 81 towards the supporting frame 40 so as to counteract the axial frictional force to thereby keep the actuating body 521 in the tightening position.

As illustrated, the supporting frame 40 can be tightened firmly in the tightening position so as to hold a protective

cover (not shown) against vibration of the cutting machine 100 during a cutting operation. In addition, by operating the handgrip 53 to turn the actuating body 521 about the tightening axis, the supporting frame 40 can be easily
5 tightened to and loosened from the movable mount 32 such that the supporting frame 40 can be moved to a corresponding one of the position of use and the retreat position when being loosened. Furthermore, by means of the retaining unit, i.e., the retaining pins 325 and the retaining holes 413, 412,
10 the supporting frame 40 can be retained in the corresponding one of the position of use and the retreat position.

Alternatively, referring to Figs. 9 to 11, in another preferred embodiment of the supporting device according to this invention, instead of the coil spring 60, the biasing
15 member 70 includes two spring disks 73 which are sleeved on the shank 81 and which are configured to be squeezable between the major abutment wall 320 and the screw nut 82 so as to acquire the increment of the biasing force. In addition, instead of the flexible joint 83, the tightening
20 bolt 80 has an elastic washer 84 which is interposed between the screw nut 82 and one of the spring disks 73 so as to facilitate restoration of the spring disks 73 to their unsqueezed state once the actuating body 521 is displaced to the loosened position.

25 While the present invention has been described in connection with what is considered the most practical and preferred embodiment, it is understood that this invention

is not limited to the disclosed embodiment but is intended to cover various arrangements included within the spirit and scope of the broadest interpretations and equivalent arrangements.

I CLAIM:

1. A supporting device for mounting a protective cover to shield a cutting blade of a cutting machine which is driven to rotate about a rotating axis, said supporting device comprising:

a mount unit which is adapted to be secured to the cutting machine, said mount unit including a major abutment wall which has a proximate tightening surface that has an axial hole extending therethrough along a tightening axis parallel to the rotating axis of the cutting blade;

a tightening bolt having a shank which is configured to pass through said axial hole, and which has front and rear ends opposite to each other in the tightening axis, and an intermediate segment interposed between said front and rear ends;

a supporting frame which has upper and lower ends opposite to each other, and a middle segment interposed between said upper and lower ends, said upper end being adapted to hold the protective cover, said middle segment having proximate and distal tightened major surfaces opposite to each other along the tightening axis, and a guiding slot which extends through said proximate and distal tightened major surfaces and which permits passage of said shank therethrough, said guiding slot permitting said middle segment to be movable between a position of use where said shank is remote from said upper

end, and a retreat position where said shank is closer to said upper end;

5 a movable tightening member which is sleeved on said shank, and which has a thrust major wall to which the tightening axis is normal, said thrust major wall having a distal tightening surface which confronts and which is to be brought to press said distal tightened major surface so as to force said proximate tightened major surface to abut against said proximate tightening surface, 10 and a cam follower surface which is opposite to said distal tightening surface along the tightening axis, and which has first and second pressed areas that are angularly displaced from each other about the tightening axis, and that are respectively proximate to and distal from said distal tightening surface along the tightening axis; 15

a cam actuating member including

an actuating body which is sleeved on said shank, and which has a cam surface and an outmost major surface opposite to each other in the tightening axis, said cam surface having first and second pressing spots which are angularly displaced from each other about the tightening axis such that, said first and second pressing spots are brought into contact with said first and second pressed areas 20 respectively when said cam surface is brought to mate with said cam follower surface in a loosened position, and such that, when said actuating body 25

is turned about the tightening axis to a tightening position, said first pressing spot is displaced to contact said second pressed area with an axial frictional force so as to move said distal tightening surface to press said distal tightened major surface, thereby forcing said proximate tightened major surface to abut against said proximate tightening surface, and

a handgrip disposed to extend from said actuating body radially so as to turn said actuating body about the tightening axis between the loosened and tightening positions; and

a biasing member disposed on said shank adjacent to said rear end of said shank such that, as a result of displacement of said actuating body to the tightening position, said biasing member acquires an increment of a biasing force which biases said front end of said shank towards said supporting frame so as to counteract the axial frictional force to thereby keep said actuating body in the tightening position.

2. The supporting device according to Claim 1, wherein said mount unit includes

a fixed mount adapted to be secured to the cutting machine, and having a throughbore which extends along the tightening axis for passage of said shank, and

a movable mount having said major abutment wall, which is disposed forwardly of said fixed mount along the

tightening axis to permit said throughbore to be coaxial with said axial hole.

3. The supporting device according to Claim 2, wherein said movable mount has an anchoring wall which extends rearwardly from an upper edge of said major abutment wall, and which has a positioning hole that extends therethrough and that is elongated in a longitudinal direction parallel to the tightening axis, said mount unit further including a first screw fastener which extends through said positioning hole and which is secured to said fixed mount such that position of said movable mount relative to said fixed mount in the longitudinal direction is adjustable by movement of said first screw fastener in said positioning hole in the longitudinal direction.
4. The supporting device according to Claim 3, wherein said mount unit further includes a second screw fastener which is threadedly engaged with said anchoring wall and which extends to abut against said fixed mount so as to generate a depressing force to render angular position of said major abutment wall of said movable mount relative to said fixed mount adjustable by virtue of varying the depression force.
5. The supporting device according to Claim 2, wherein said tightening bolt has a screw nut which is threadedly engaged with said rear end of said shank, said biasing member being a coil spring which is disposed to surround

said shank and between said major abutment wall and said screw nut so as to acquire the increment of the biasing force.

- 5 6. The supporting device according to Claim 5, wherein said tightening bolt has a flexible joint which is received in said throughbore, which is sleeved on said shank between said screw nut and said major abutment wall of said movable mount, and which has an accommodation chamber, said coil spring having an end which abuts against said major abutment wall, and an opposite end which is received in said accommodation chamber so as to permit the biasing force of said coil spring to be adjustable by threaded movement of said screw nut while ensuring the biasing force to be kept in line with the tightening axis.
- 10 7. The supporting device according to Claim 2, wherein said tightening bolt has a screw nut which is threadedly engaged with said rear end of said shank, said biasing member including two spring disks which are sleeved on said shank and which are configured to be squeezable between said major abutment wall and said screw nut so as to acquire the increment of the biasing force.
- 15 20 8. The supporting device according to Claim 7, wherein said tightening bolt has an elastic washer which is interposed between said screw nut and one of said spring disks so as to facilitate restoration of said spring disks to their unsqueezed state once said actuating body is
- 25

displaced to the loosened position.

- 5 9. The supporting device according to Claim 1, further comprising a retaining unit which is disposed between said proximate tightening surface and said proximate tightened major surface and which is configured to retain said supporting frame in a corresponding one of the position of use and the retreat position.

ABSTRACT OF THE DISCLOSURE

A supporting device is adapted for mounting a protective cover to shield a cutting blade of a cutting machine, and includes a mount unit with a proximate tightening surface, a tightening bolt passing through the proximate tightening surface, a supporting frame adapted for holding the protective cover and having a guiding slot for passage of the tightening bolt so as to be movable between a position of use and a retreat position, a movable tightening member with a distal tightening surface and a cam follower surface, a cam actuating member having a cam surface mating with the cam follower surface and turnable to tighten or loosen the supporting frame, and a biasing member disposed to keep the actuating body in a tightening position.

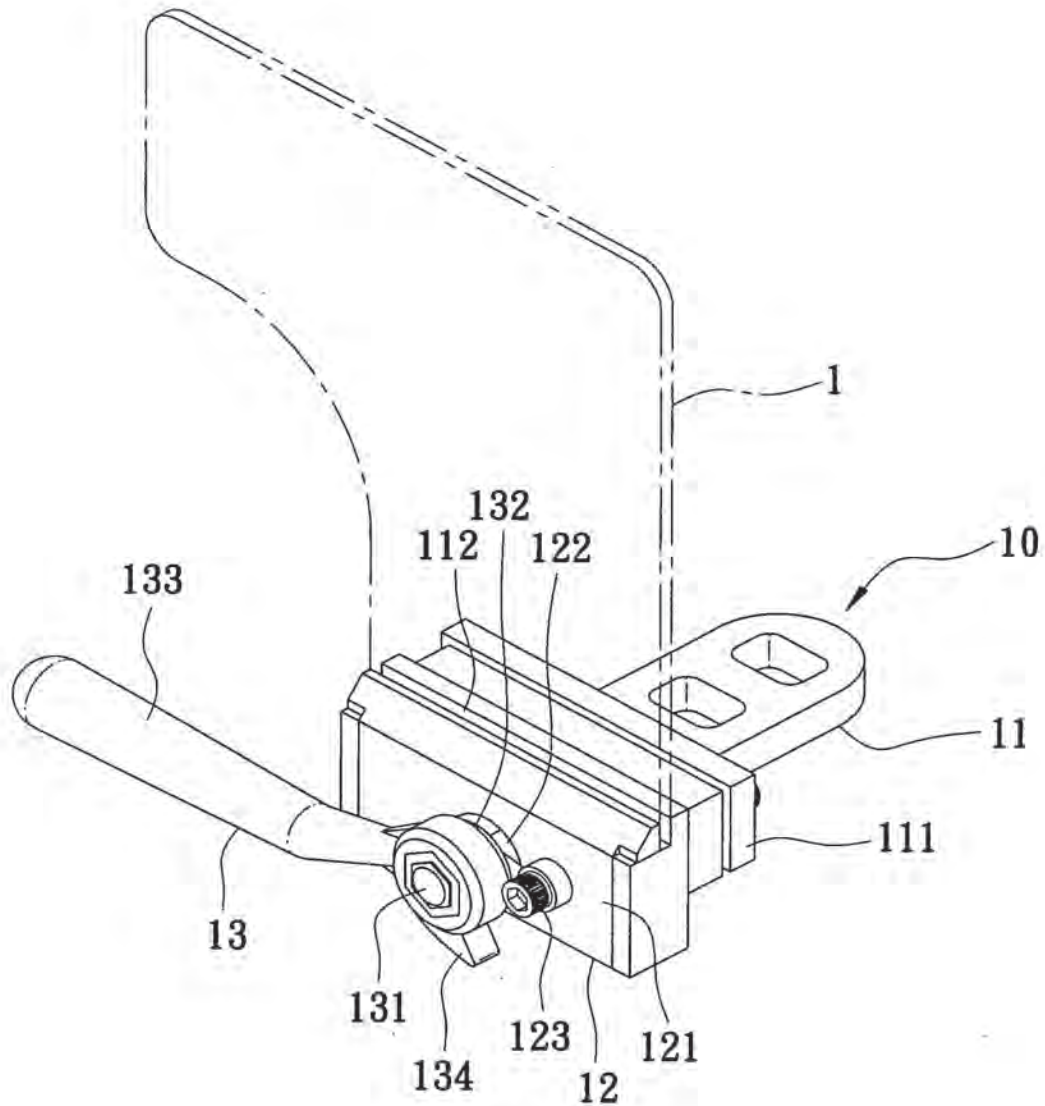
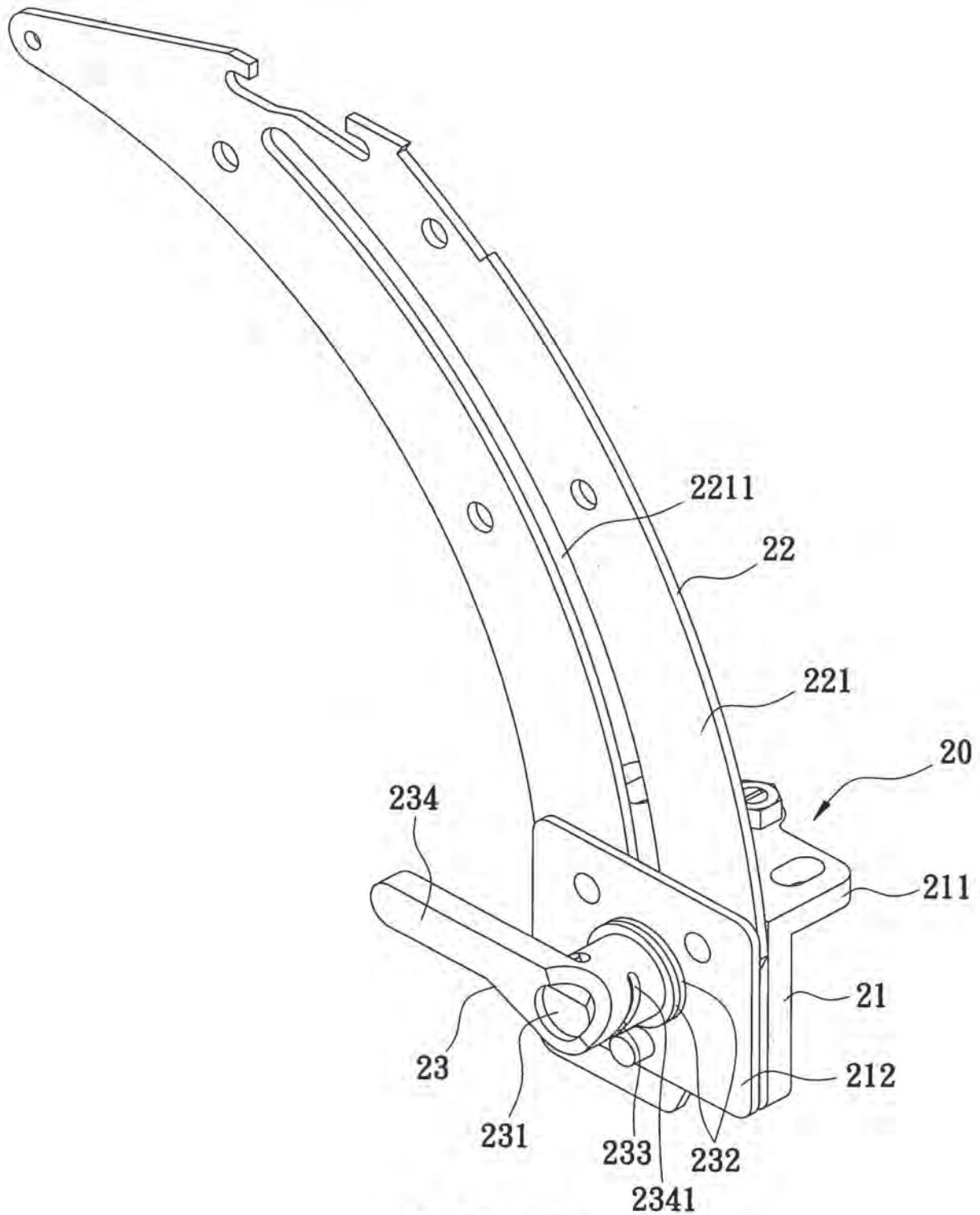


FIG. 1
PRIOR ART



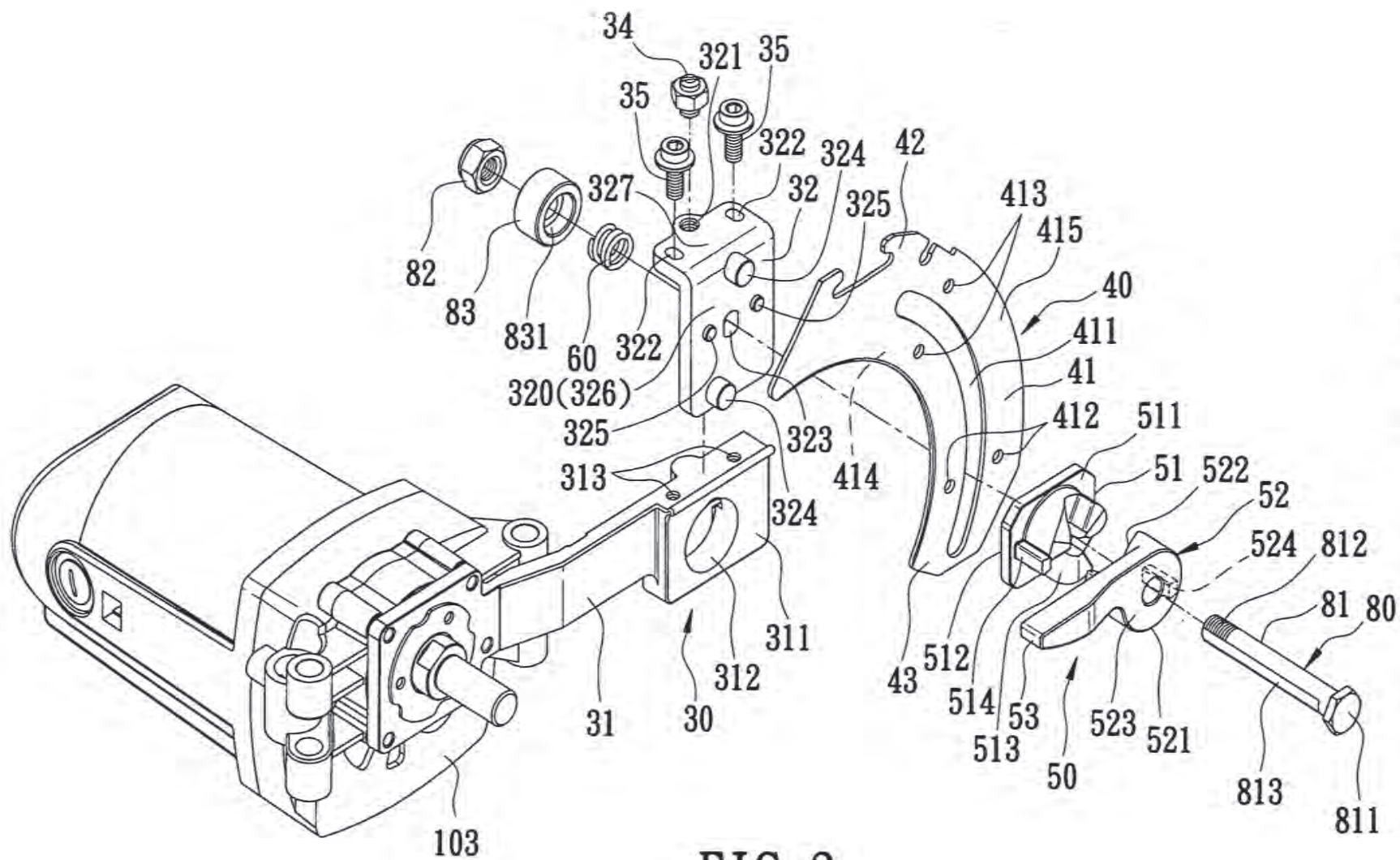


FIG. 3

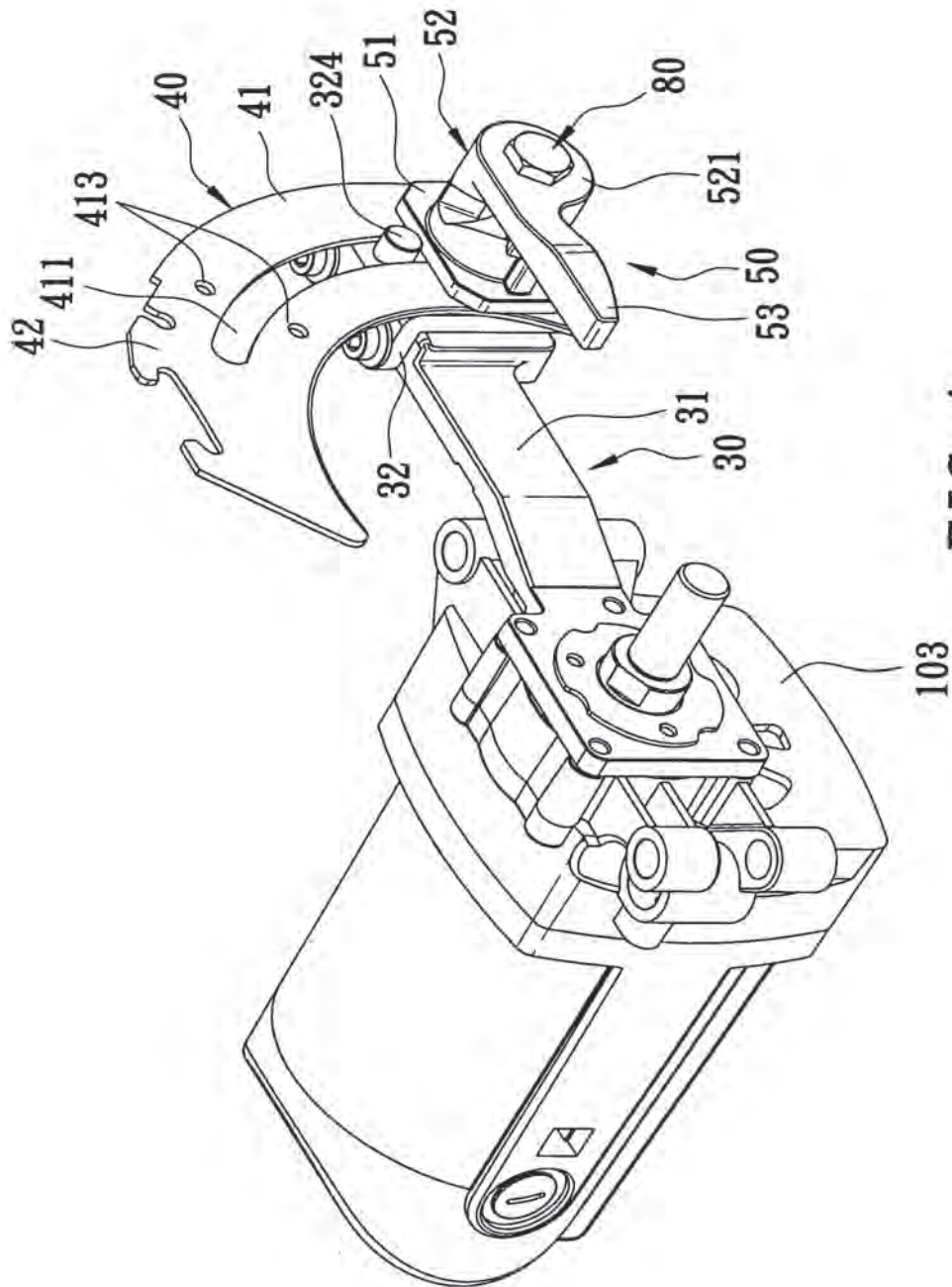


FIG. 4

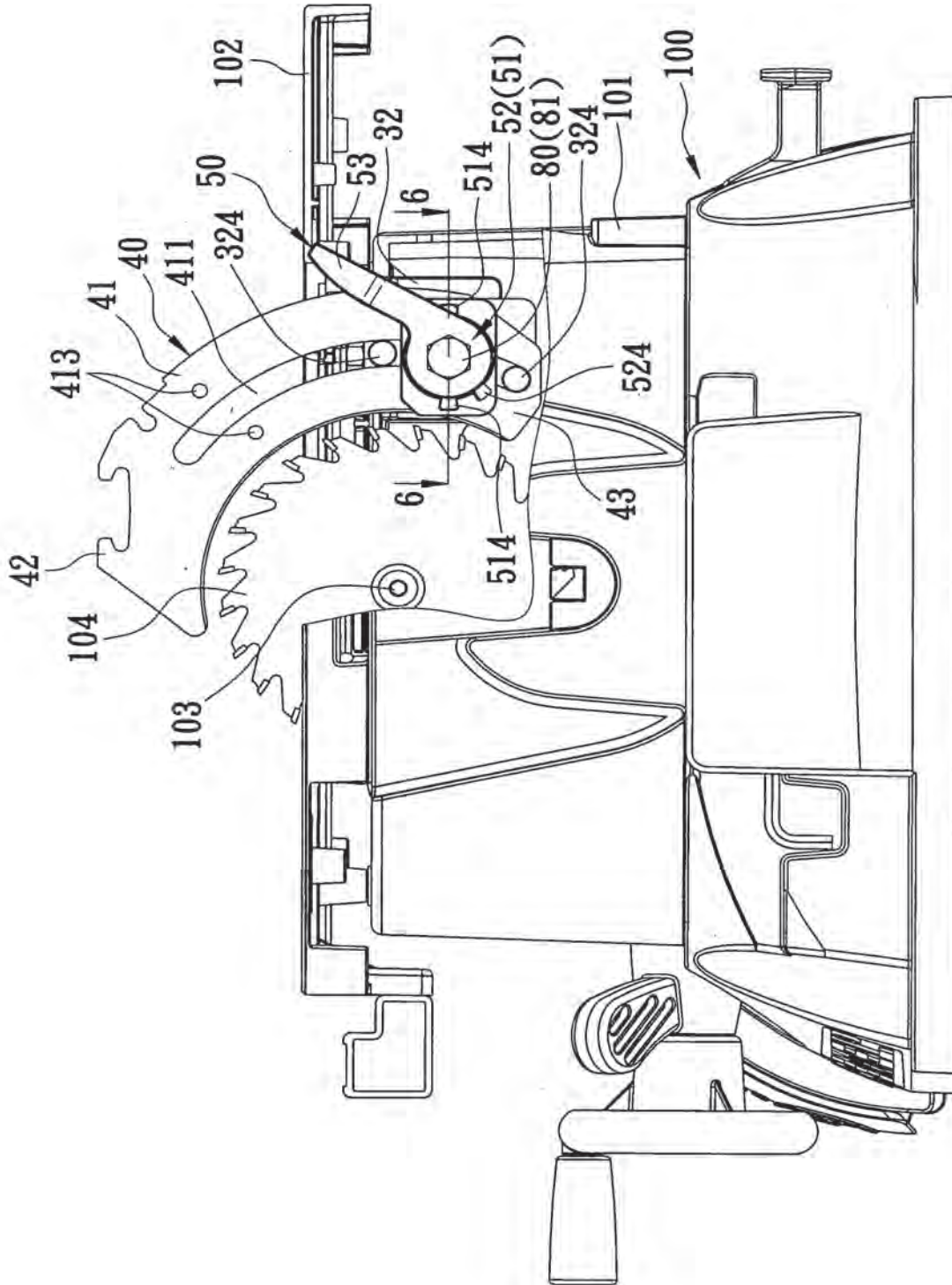


FIG. 5

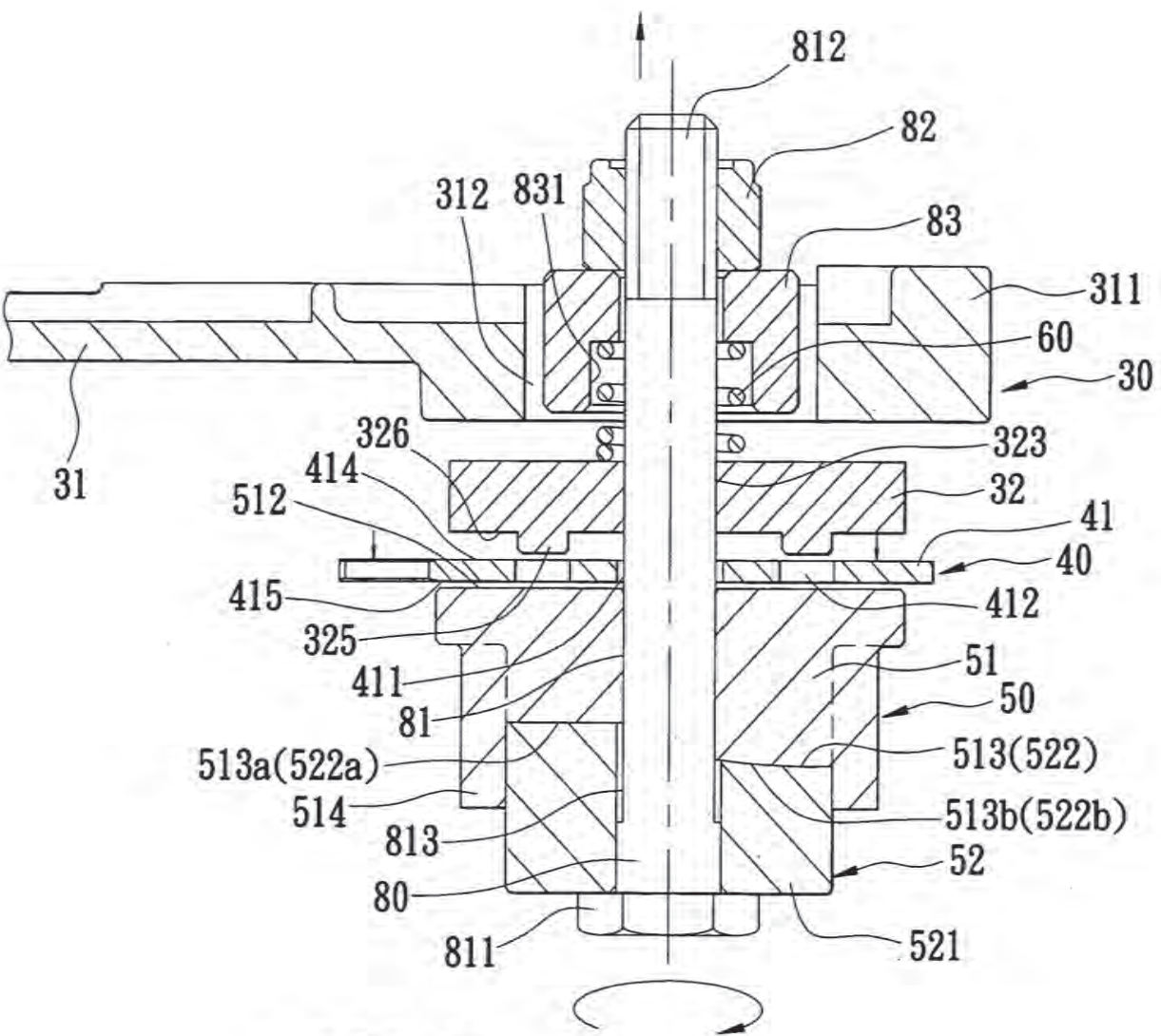


FIG. 6

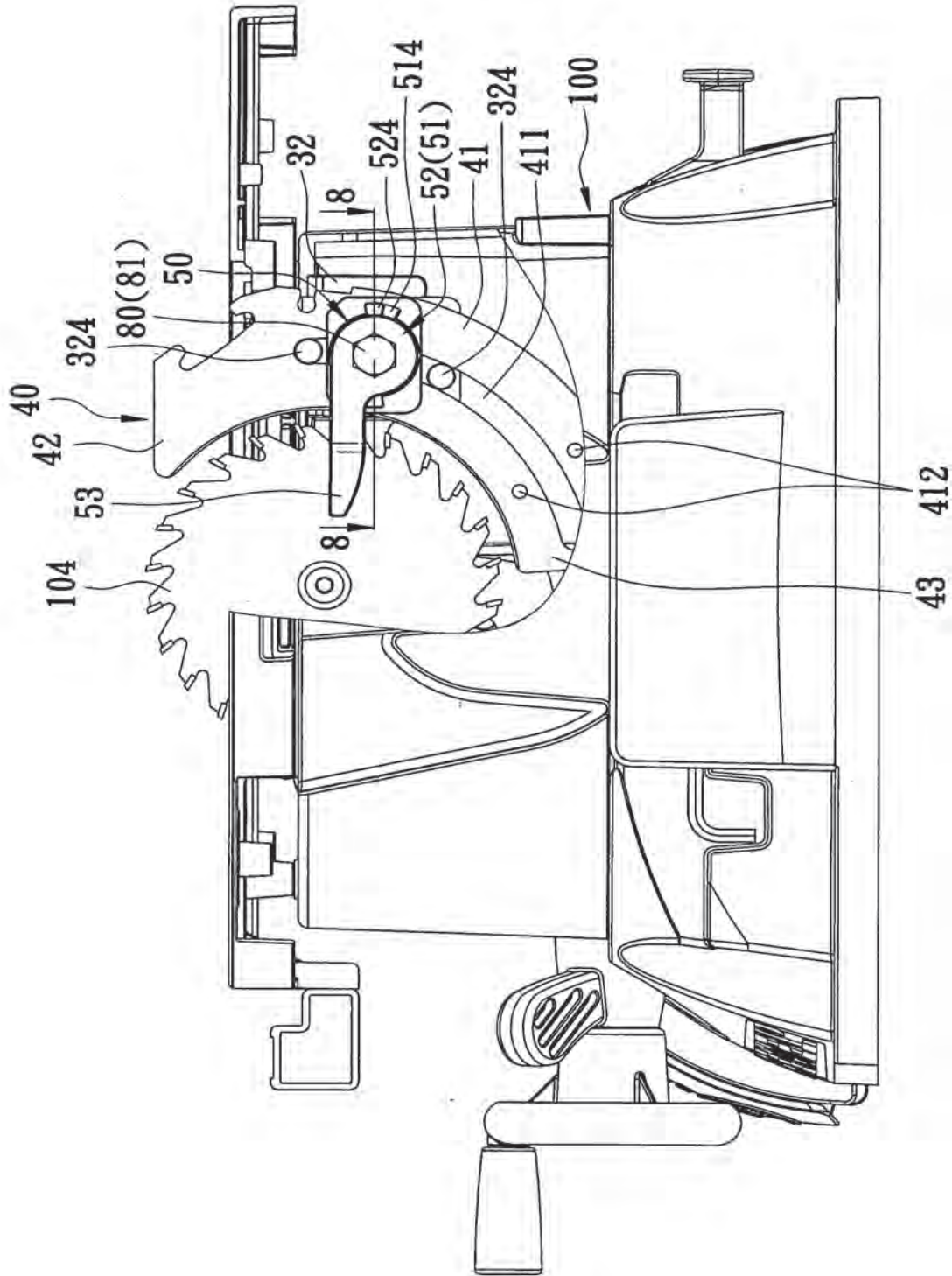


FIG. 7

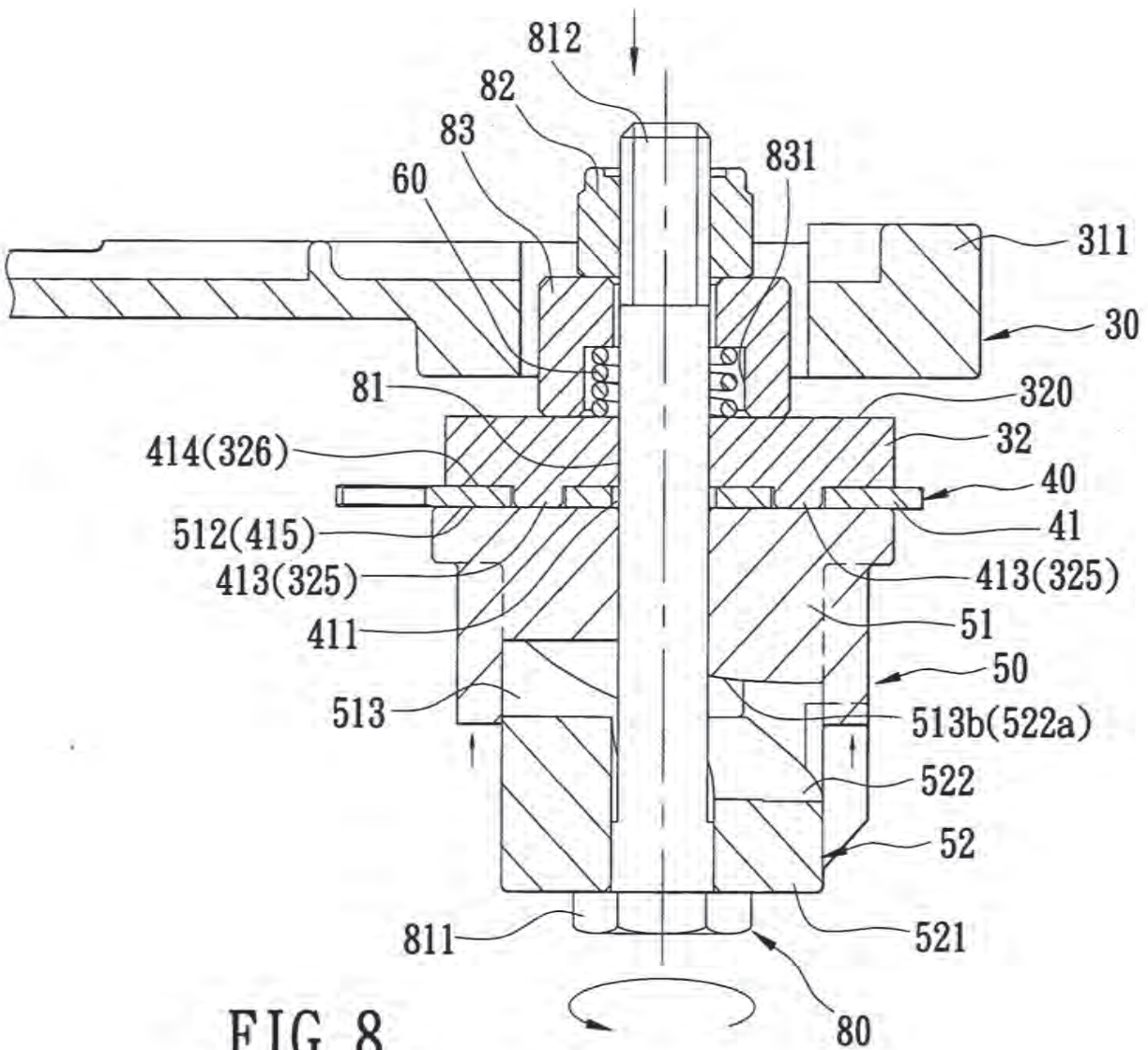


FIG. 8

FIG. 0 is an exploded perspective view of a mechanical assembly. The assembly includes a main housing (103) with a central shaft (31) and a flange (30). A bracket (311) is mounted on the shaft. A curved arm (40) is connected to the bracket via a pivot (51). The arm has a curved surface (41) and a flange (42). A lever (53) is connected to the arm via a pivot (52). The lever has a curved surface (51) and a flange (52). A pin (80) is used to secure the lever. Various other components and fasteners are labeled with reference numerals, including 32, 33, 34, 35, 36, 37, 38, 39, 43, 44, 45, 46, 47, 48, 49, 50, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200.

FIG. 9

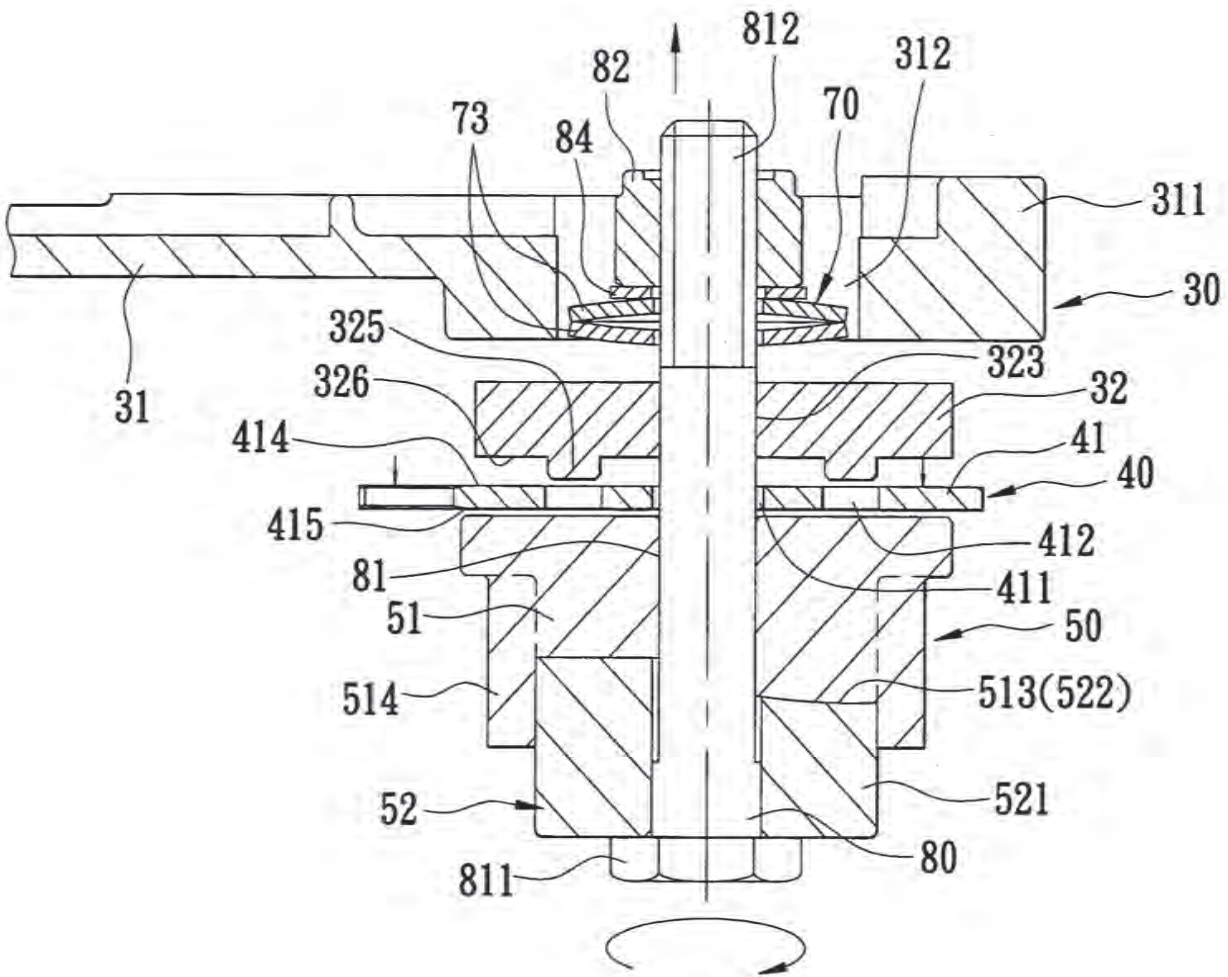


FIG. 10

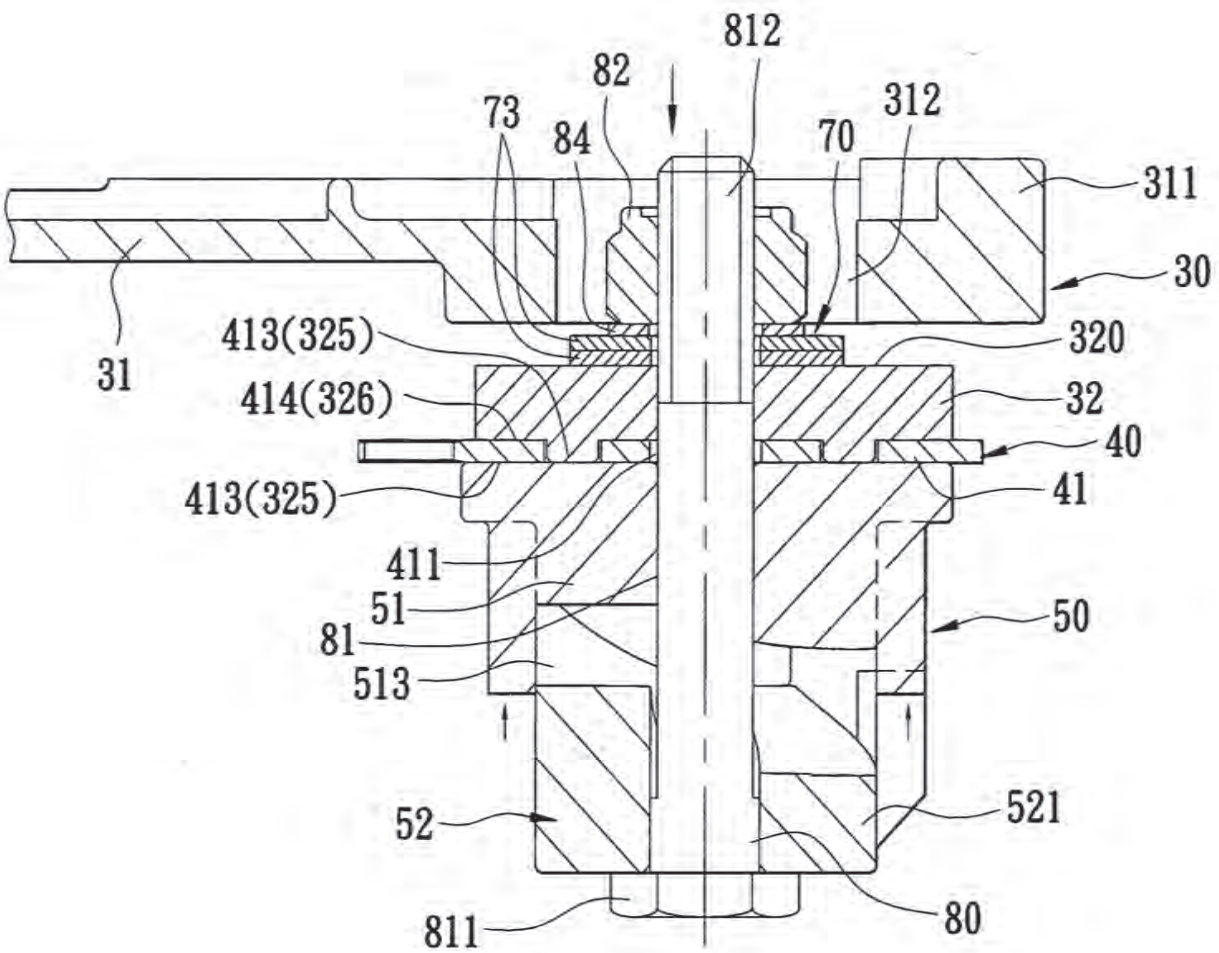


FIG. 11

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

SUPPORTING DEVICE FOR MOUNTING A PROTECTIVE COVER TO SHIELD A CUTTING BLADE OF A CUTTING MACHINE

the specification of which is attached hereto unless the following box is checked:

☐ was filed on _____ as United States Application Number _____
or PCT International Application Number _____
and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or §365(b), of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application, having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)**Priority Claimed**

096112326	Taiwan	9/April/2007
(Number)	(Country)	(Day/Month/Year Filed)
_____	_____	_____
(Number)	(Country)	(Day/Month/Year Filed)
_____	_____	_____
(Number)	(Country)	(Day/Month/Year Filed)

☐	☒
Yes	No
☐	☐
Yes	No
☐	☐
Yes	No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

_____	_____
(Application Number)	(Filing Date)
_____	_____
(Application Number)	(Filing Date)
_____	_____
(Application Number)	(Filing Date)

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or §365(c) of any PCT International application designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)
--------------------------	---------------	---

(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)
--------------------------	---------------	---

I (we) hereby appoint the following as our representative(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Customer Number: 022832

Send Correspondence to:

Customer Number: 022832

KIRKPATRICK & LOCKHART PRESTON GATES ELLIS LLP

Direct Telephone Calls to:

Dr. Michael H. Brodowski (617)261-3113

I (we) hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Yueh-Hsun CHANG				
Inventor's signature <i>CHANG. YUEH HSUN</i>				Date Sept. 21, 2007
Residence:	City	State	Country	Citizenship
	Nan-Tou Hsien, Taiwan			Taiwan
Mailing Address No. 48, Lane 126-1, Feng-Tsao Rd., Tsao-Tun Chen, Nan-Tou Hsien, Taiwan				
Full name of second joint inventor, if any				
Second Inventor's signature				Date
Residence:	City	State	Country	Citizenship
Mailing Address				

(F-66 A4)

☐ Additional inventors are being named on separately numbered sheets attached hereto.

APPLICATION DATA SHEET

Application Information

Application Number::
Filing Date:: October 26, 2007
Application Type:: Regular
Subject Matter:: Utility
CD-ROM or CD-R?:: None
Sequence Submission?:: No
Title:: Supporting Device for Mounting a
Protective Cover to Shield a
Cutting Blade of a Cutting Machine
Attorney Docket Number:: SII-001
Request for Early Publication?::
Request for Non-Publication?::
Suggested Drawing Figure::
Total Drawing Sheets:: 11
Small Entity?:: Yes
Licensed US Govt. Agency::
Contract or Grant Numbers::
Secrecy Order in Parent Appl.?:: No

Applicant Information

Applicant Authority Type:: Inventor
Primary Citizenship Country:: Taiwan
Status:: Full Capacity
Given Name:: Yueh-Hsun
Middle Name::
Family Name:: Chang
Name Suffix::
City of Residence:: Nan-Tou Hsien
State or Province of Residence::

Country of Residence:: Taiwan
Street of Mailing Address:: No. 48, Lane 126-1, Feng-Tsao Rd.,
Tsao-Tun Chen
City of Mailing Address:: Nan-Tou Hsien
State or Province of Mailing Address::
Country of Mailing Address:: Taiwan
Postal or Zip Code of Mailing Address::

Correspondence Information

Correspondence Customer Number:: 022832

Representative Information

Representative Customer Number:: 022832

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This application		/ /	/ /

Foreign Priority Information

Country::	Application Number::	Filing Date::	Priority Claimed::
		/ /	

Assignee Information

Assignee Name:: P&F Brother Industrial Corporation
City of Mailing Address:: Taichung
State or Province of Mailing Address::
Country of Mailing Address:: Taiwan

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

10/29/2007 EAREGAY1 00000019 11977779

01 FC:2011
02 FC:2111
03 FC:2311

155.00 OP
255.00 OP
105.00 OP

PTO-1556
(5/87)

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.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number

11977729

APPLICATION AS FILED - PART I

(Column 1)

(Column 2)

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	9 minus 20 =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	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 \$260 (\$130 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).	

RATE (\$)	FEE (\$)
N/A	\$155
N/A	\$255
N/A	\$105
X \$25 =	
X \$105 =	
\$130	
\$185	

RATE (\$)	FEE (\$)
N/A	\$310
N/A	\$510
N/A	\$210
X \$50 =	
X \$210 =	
\$260	
\$370	

MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))

* If the difference in column 1 is less than zero, enter "0" in column 2.

TOTAL

515

TOTAL

APPLICATION AS AMENDED - PART II

(Column 1)

(Column 2)

(Column 3)

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

RATE (\$)	ADDITIONAL FEE (\$)
X \$25 =	
X \$105 =	
\$185	

RATE (\$)	ADDITIONAL FEE (\$)
X \$50 =	
X \$210 =	
\$370	

TOTAL
ADD'L FEE

TOTAL
ADD'L FEE

(Column 1)

(Column 2)

(Column 3)

RATE (\$)	ADDITIONAL FEE (\$)
X \$25 =	
X \$105 =	
\$185	

RATE (\$)	ADDITIONAL FEE (\$)
X \$50 =	
X \$210 =	
\$370	

TOTAL
ADD'L FEE

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".

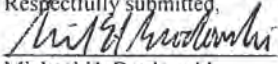
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. 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 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.

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

U.S. PTO

UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	SII-001	11/977779
	First Named Inventor	Chang	10/26/2007
	Title	Supporting Device for Mounting a Protective Cover to Shield a Cutting Blade of a Cutting Machine	

APPLICATION ELEMENTS		ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
1. ☒ Fee Transmittal Form 2. ☒ Small Entity Status ☒ Applicant claims small entity status ☐ Status established in prior application and is still proper and desired		ACCOMPANYING APPLICATION PARTS	
3. ☒ Specification and Drawings [Total Pages 32] - Written Description - (14 pages) - Claims - (6 pages) - Abstract - (1 page) - Sheets of Drawings - (11 sheets) ☒ Formal ☐ Informal		8. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney 9. ☐ English Translation Document (if applicable) 10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations	
4. ☒ Oath or Declaration [Total Pages 2] a. ☒ Newly executed (original) b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below]		11. ☐ Preliminary Amendment ☐ Drawings [Total Sheets] 12. ☒ Return Receipt Postcard (specifically itemized)	
5. ☐ Incorporation by Reference (usable if Box 4b is checked) The entire Disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.		13. ☐ Certified Copy of Priority Document(s) (if foreign priority claimed) 14. ☐ Nonpublication Request Under 35 U.S.C. 122(b)	
6. ☒ Application Data Sheet		15. ☐ CD in duplicate for large table or computer program	
7. ☐ Nucleotide and/or Amino Acid Sequence Submission ☐ Computer Readable Form (CRF) ☐ Paper Copy (identical to computer copy) ☐ CD (2 copies) (identical to computer copy) ☐ Statement verifying identity of above copies		16. ☐ Other:	
17. ☐ If a CONTINUING APPLICATION: Amend the specification by inserting on page 1, before the first line, the sentence: --This is a ☐ continuation ☐ divisional ☐ continuation-in-part of prior application Serial No. / , filed on , , the entire disclosure of which is incorporated by reference herein.-- Priority to the above application(s) is claimed under 35 U.S.C. 120. Prior application information: Examiner: _____ Group/Art Unit: _____			
18. ☐ Priority - 35 U.S.C. 119 ☐ Priority of application Serial No. _____ filed on _____ in _____ is claimed under 35 U.S.C. 119. ☐ The certified copy has been filed in prior U.S. application Serial No. ____/____ on ____. ☐ The certified copy will follow.			
CORRESPONDENCE ADDRESS		SIGNATURE BLOCK	
Direct all correspondence to: Patent Administrator Kirkpatrick & Lockhart Preston Gates Ellis LLP State Street Financial Center One Lincoln Street Boston, MA 02111-2950 Tel. No.: (617) 261-3100 Fax No.: (617) 261-3175 Customer No. 022832		Respectfully submitted,  Date: October 26, 2007 Reg. No. 41,640 Tel. No.: (617) 261-3113 Fax No.: (617) 261-3175 Michael H. Brodowski Attorney for Applicant Kirkpatrick & Lockhart Preston Gates Ellis LLP State Street Financial Center One Lincoln Street Boston, MA 02111-2950	

102607

17414 U.S. PTO

**FEE TRANSMITTAL
FY 2007***Complete if Known*

Application Serial Number	Not yet assigned
Filing Date	Herewith
First Named Inventor	Chang
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket No.	SII-001
Confirmation No.	Not yet assigned

METHOD OF PAYMENT

1. ☒ Payment Enclosed:
☒ Check ☐ Money Order ☐ Other
2. ☒ The Commissioner is hereby authorized to credit or charge any fee indicated below for this submission to Deposit Account No. 50-1721.
☐ Required Fees (copy of this sheet enclosed).
☒ Additional fee required under 37 CFR 1.16 and 1.17.
☒ Overpayment Credit.
3. ☒ Applicant claims small entity status.

FEE CALCULATION**1. FILING/SEARCH/EXAM/SIZE FEES****Large Entity**

Fee (\$)	Fee Description	Fee Paid
310	Utility filing fee	310.00
510	Utility search fee	510.00
210	Utility exam fee	210.00
200	Utility size fee (each add'l 50 pgs. over 100)	
210	Design filing fee	
100	Design search fee	
130	Design exam fee	
260	Design size fee (each add'l 50 pgs. over 100)	

	Number Filed	Number Extra	Rate	Amount
Total Claims	9	- 20 = 0	x \$ 50.00 =	0.00
Independent Claims	1	- 3 = 0	x \$210.00 =	0.00

☐ Multiple Dependent Claim(s), if any	\$370.00 =
TOTAL:	\$1,030.00
SMALL ENTITY DISCOUNT:	515.00
SUBTOTAL (1)	(\$) 515.00

2. AMENDMENT CLAIM FEES

Claims Remaining After Amend.	Highest No. Previously Paid For	Present Extra	Rate	Fee Paid
Total	-	=	x \$ 50.00 =	
Indep.	-	=	x \$210.00 =	
☐ First Presentation of Multiple Dep. Claim			+ \$370.00 =	
TOTAL:				(\$)
SMALL ENTITY DISCOUNT:				(\$)
SUBTOTAL (2)				(\$) 0.00

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

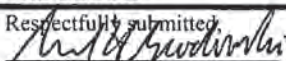
Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description	Fee Paid
130	65	Surcharge - late filing fee or oath	
50	25	Surcharge - late provisional filing fee or cover sheet	
130	130	Non-English specification	
2,520	2,520	Request for ex parte reexamination	
120	60	Extension for reply within first month	
460	230	Extension for reply within second month	
1050	525	Extension for reply within third month	
1640	820	Extension for reply within fourth month	
2230	1115	Extension for reply within fifth month	
510	255	Notice of Appeal	
510	255	Filing a brief in support of an appeal	
1030	515	Request for oral hearing	
400	400	Petitions to the Commissioner (Gp. I)	
200	200	Petitions to the Commissioner (Gp. II)	
130	130	Petitions to the Commissioner (Gp. III)	
180	180	Submission of Information Disclosure Statement	
810	405	Filing a submission after final rejection (37 CFR 1.129(a))	
810	405	For each additional invention to be examined (37 CFR 1.129(b))	
100	100	Certificate of Correction for applicant's error	
130	65	Submission of Terminal Disclaimer	
Other fee (Specify)			
Other fee (Specify)			

SUBTOTAL (3) (\$)**SUBTOTAL (1)** 515.00**SUBTOTAL (2)** 0.00**SUBTOTAL (3)** 0.00**TOTAL** (\$)**CORRESPONDENCE ADDRESS**

Direct all correspondence to:
Patent Administrator
Kirkpatrick & Lockhart Preston
Gates Ellis LLP
State Street Financial Center
One Lincoln Street
Boston, MA 02111-2950
Tel. No.: (617) 261-3100
Fax No.: (617) 261-3175

SIGNATURE BLOCK

Date: October 26, 2007
Reg. No.: 41,640
Tel. No.: (617) 261-3113
Fax No.: (617) 261-3175

Respectfully submitted,

Michael H. Brodowski
Attorney for the Applicant
Kirkpatrick & Lockhart Preston
Gates Ellis LLP
State Street Financial Center
One Lincoln Street
Boston, MA 02111-2950