



APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,108	10/07/2014	8850936	LEN-004	3343

11743 7590 09/17/2014
David W. Barman
17071 West Dixie Highway
Miami, FL 33160

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 15 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 Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

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

Brian Len, Coral Springs, FL;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Practitioner's Docket No.: LEN - 004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 13/247,108 Confirmation No. 3343
Filing Date : September 28, 2011
Applicant : Brian Len
Title : Automotive wheel CNC (Computed Numerical Control) /
Manual Dual Control Lathe
TC/AU : 3722
Examiner : Willmon Freddie Jr.
Docket No. : LEN - 004
Customer No. : 11743

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

A M E N D M E N T

Honorable Commissioner:

Kindly amend the above-identified application as follows:

- **Amendments to the Drawings** begin on page 2 of this paper.
- **Remarks** begin on page 3 of this paper.
- **Replacement Drawing Sheets are submitted herewith.**

Inventor: Len
Serial No.: 13/247,108

AMENDMENT TO THE DRAWINGS

Please delete drawing sheets 2/13, 12/13, and 13/13 of record and enter replacement sheets submitted herewith.

REMARKS

The subject application has been allowed and the issue fee paid.

IN a communication of September 8, 2014, a request was made for replacement drawing sheets including Fig. 2, Fig. 14/15, and Fig. 16.

Applicant has cancelled the sheets of record containing Fig. 2, Fig. 14/15, and Fig. 16 and submits Replacement Sheets herewith.

Applicant believes this amendment obviates all remaining matters and respectfully requests the subject application proceed to issue.

If any fee is due, authorization is granted to charge deposit account 505986 for The Law Office of David W. Barman, P.A.

Respectfully submitted,

/David W. Barman/
David W. Barman
Reg. No. 47225

September 9, 2014

The Law Office of
David W. Barman P.A.
17071 West Dixie Highway
North Miami Beach, Florida 33160
Tel.: (786) 361-6579
Fax: (786) 752-3228

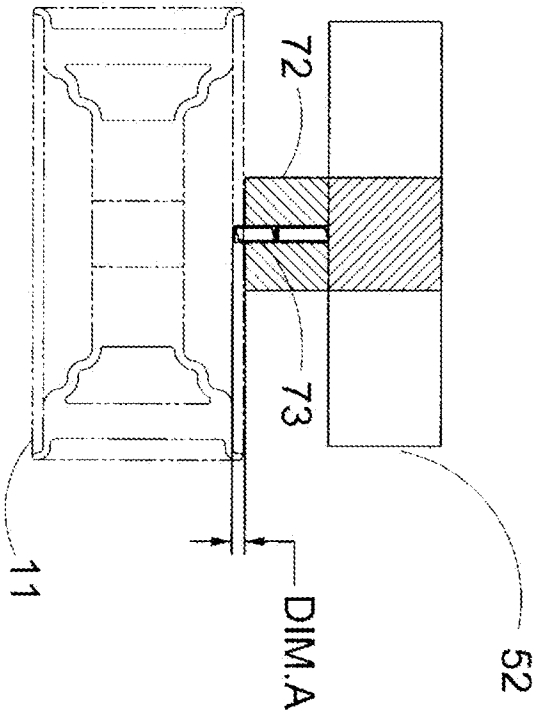


FIG. 16
SECTION C-C
OF FIG. 14

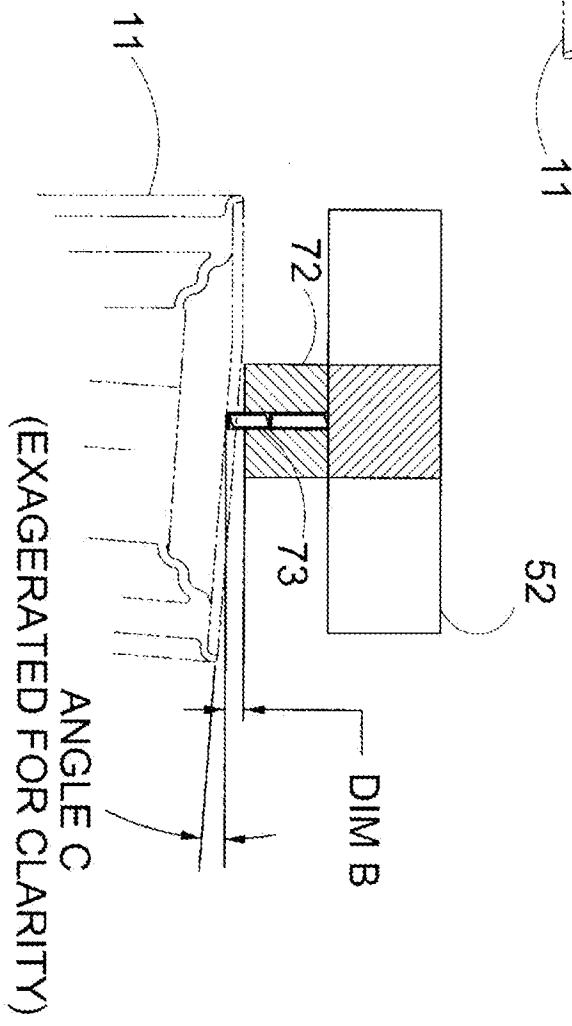


FIG. 16A
SECTION C-C OF FIG. 14

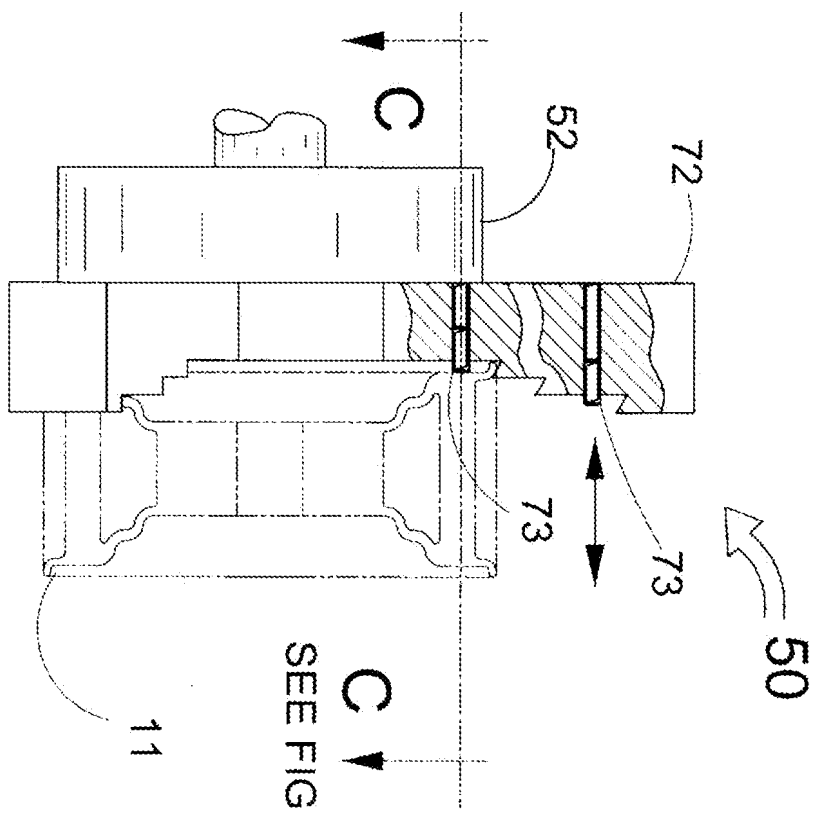


FIG. 14

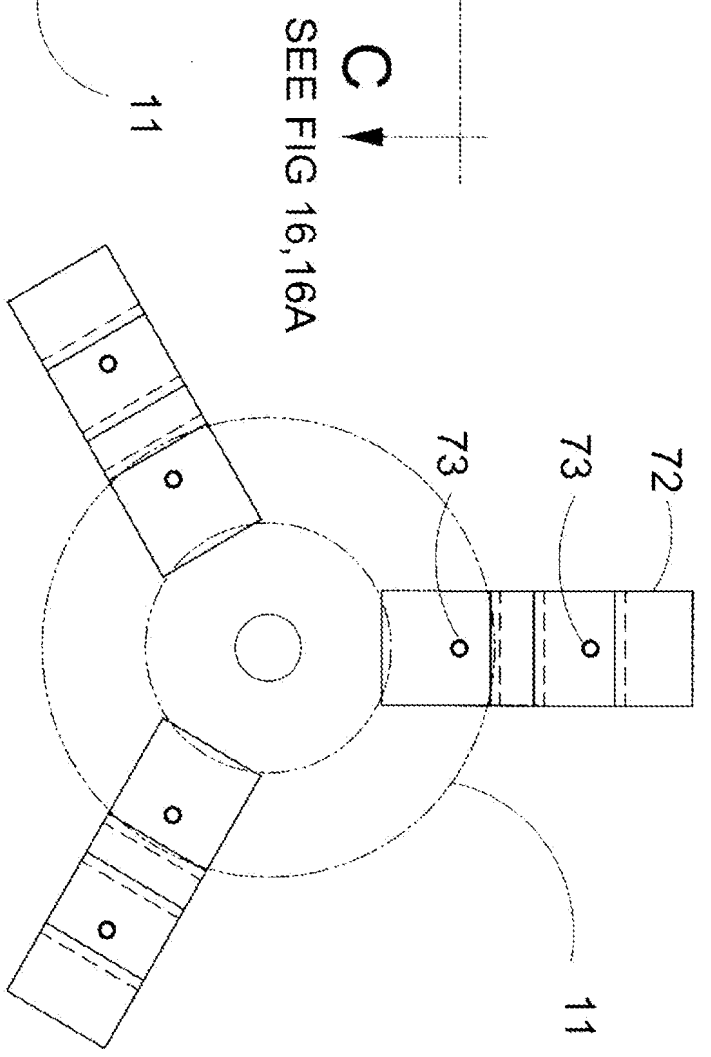
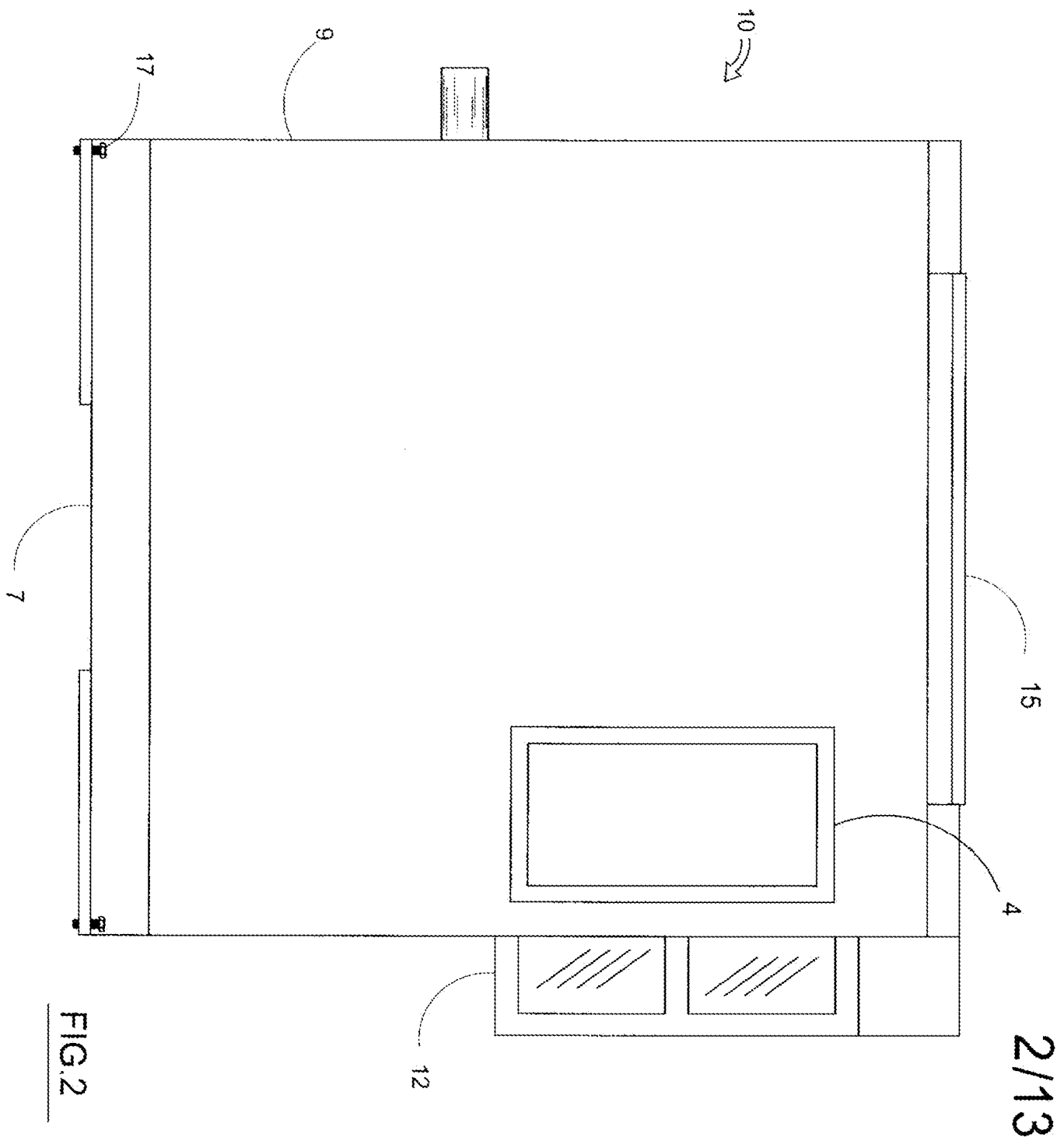


FIG. 15

SEE FIG 16, 16A

REPLACEMENT SHEET



2/13

FIG. 2

Electronic Acknowledgement Receipt

EFS ID:	20086213
Application Number:	13247108
International Application Number:	
Confirmation Number:	3343
Title of Invention:	AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE
First Named Inventor/Applicant Name:	Brian Len
Customer Number:	11743
Filer:	David Wade Barman
Filer Authorized By:	
Attorney Docket Number:	LEN-004
Receipt Date:	09-SEP-2014
Filing Date:	28-SEP-2011
Time Stamp:	14:15:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment after Notice of Allowance (Rule 312)	LEN-004-OAREPLY09092014.pdf	68552 <small>fc0c2d7171d49c7258424f15c32d51667ab8b202</small>	no	3

Warnings:

Information:

2	Drawings-only black and white line drawings	LEN-004-replace-09092014.pdf	951629 7fcaa933292568bbb90ab731302863e30d9800e2	no	3
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Warnings:

Information:

Total Files Size (in bytes):

1020181

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,108	09/28/2011	Brian Len	LEN-004	3343
11743	7590	09/08/2014	EXAMINER	
David W. Barman 17071 West Dixie Highway Miami, FL 33160			FRIDIE JR, WILLMON	
			ART UNIT	PAPER NUMBER
			3722	
			NOTIFICATION DATE	DELIVERY MODE
			09/08/2014	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

dwbarman@gmail.com
USPTO@dockettrak.com



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

Application No. : 13247108
Applicant : Len
Filing Date : 09/28/2011
Date Mailed : 09/08/2014

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED.

See attachment(s).

*A copy of this notice **MUST** be returned with the reply. Please address response to
"Mail Stop Issue Fee, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450".*

/Marty Willis/
Publication Branch
Office of Data Management
(571) 272-4200

IDENTIFICATION OF DRAWING DEFICIENCIES

- There is a hole or the image thereof within the illustration. FIG(s)
- The illustration is penetrated or traversed by a solid or broken line that is not intended to be part of the drawing, such as a dark line caused by a flaw in the copying process. FIG(s) 14, 15, 16A
- An ink stamp or the image thereof obscures part of the illustration. FIG(s)
- The drawing is marred by black smudges, obliterations, or fax/copier marks (for example, speckles or dots in a substantial portion of the drawing). FIG(s)
- Figure numbers are duplicated or missing. FIG(s)
- Drawing sheet or figure is missing. FIG(s)
- Numbers, letters, or reference characters in the drawing have been crossed out or are illegibly handwritten. FIG(s)
- The character of the lines, numbers, and letters is poor. FIG(s)
- The drawing's background shows that the original drawing was made on graph paper or other paper with a pattern or decoration. FIG(s)
- The FIG. number label is placed in a location that causes the drawing to be read upside down. FIG(s)
- Data, a reference number, or part of the drawing is truncated or missing, or a lead line has no reference number. FIG(s) 2
- The drawing and/or the FIG. label contain(s) foreign language. FIG(s)
- This utility application contains a photograph of a view that is capable of being illustrated as a line drawing. FIG(s)
- A petition under 37 CFR 1.84(a)(2) to accept color drawings has been granted, but the brief description of the drawings in the specification does not contain (or has not been amended to contain) the paragraph required by 37 CFR 1.84(a)(2)(iii).
- This reissue application contains amended drawings that are not labeled as "Amended" as required by 37 CFR 1.173(b)(3). FIG(s)
- OTHER: Thank you very much for the 5-7-14 drawings and the 8-13-14 amendment.

- COMMENTS:
The 8-13-14 revision of the Brief Description of the Drawings is approved and appreciated. However, it has been determined that Figure 2 (9-28-11) has a reference number 9 that lacks its corresponding lead line.

Also, Figures 14 and 15 (9-28-11) and Figure 16A (5-7-14) are impinged upon by a horizontal dotted line that appears to be an unintended copy mark rather than part of the illustration.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,108	09/28/2011	Brian Len	LEN-004	3343
11743	7590	08/29/2014	EXAMINER	
David W. Barman 17071 West Dixie Highway Miami, FL 33160			FRIDIE JR, WILLMON	
			ART UNIT	PAPER NUMBER
			3722	
			NOTIFICATION DATE	DELIVERY MODE
			08/29/2014	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

dwbarman@gmail.com
USPTO@dockettrak.com

Response to Rule 312 Communication	Application No. 13/247,108	Applicant(s)
	Examiner	Art Unit

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

1. The amendment filed on 13 August 2014 under 37 CFR 1.312 has been considered, and has been:

- a) entered.
- b) entered as directed to matters of form not affecting the scope of the invention.
- c) disapproved because the amendment was filed after the payment of the issue fee.
 Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.
- d) disapproved. See explanation below.
- e) entered in part. See explanation below.

MN

Publishing Division

Office of Petitions: Routing Sheet



Application No. 13/247,108

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application.

GRANTED

DISMISSED

DENIED



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,108	09/28/2011	Brian Len	LEN-004	3343
11743	7590	08/22/2014	EXAMINER	
David W. Barman 17071 West Dixie Highway Miami, FL 33160			FRIDIE JR, WILLMON	
			ART UNIT	PAPER NUMBER
			3722	
			NOTIFICATION DATE	DELIVERY MODE
			08/22/2014	ELECTRONIC

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dwbarman@gmail.com
USPTO@dockettrak.com



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

In re Application of :
Brian Len : ON PETITION
Application No. 13/247,108 :
Filed: September 28, 2011 :
Attorney Docket No. LEN-004 :

This is a decision on the renewed petition under 37 CFR 1.137(a), filed on August 13, 2014, to revive the above-identified application.

This application became abandoned for failure to timely respond to the Notice to File Corrected Application Papers mailed December 31, 2013. A Notice of Abandonment was mailed on May 19, 2014.

The petition is **granted**.

The petition satisfies the requirements of 37 CFR 1.137(a) in that petitioner has supplied (1) the reply in the form of an amendment; (2) the petition fee of \$850; and (3) a proper statement of unintentional delay.

This application is being referred to the Office of Data Management for processing into a patent.

Telephone inquiries concerning this decision should be directed to the undersigned at (571) 272-3226. Telephone inquiries related to processing as a patent should be directed to (571) 272-4200.

Andrea Smith
Andrea Smith
Petitions Examiner
Office of Petitions

Office of Petitions: Decision Count Sheet

Mailing Month

8

Application No.

13247108



For US serial numbers: enter number only, no slashes or commas. Ex: 10123456

For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official:

SMITH, ANDREA

Count (1) - Palm Credit

13/247,108

Decision: GRANT

FINANCE WORK NEEDED

Select Check Box for YES



Decision Type: 510 - 37 CFR 1.137(b) FOR REVIVAL TO ACCEPT LATE F



Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach 2nd count sheet & mark this box



Printed on: 8/19/2014

Practitioner's Docket No.: LEN - 004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 13/247,108 Confirmation No. 3343
Filing Date : September 28, 2011
Applicant : Brian Len
Title : Automotive wheel CNC (Computed Numerical Control) /
Manual Dual Control Lathe
TC/AU : 3722
Examiner : Willmon Freddie Jr.
Docket No. : LEN - 004
Customer No. : 11743

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

RENEWED PETITION UNDER 37 CFR 1.137(a) and
A M E N D M E N T

Honorable Commissioner:

Kindly amend the above-identified application as follows:

- **Amendments to the Specification** begins on page 2 of this paper.
- **Remarks** begin on page 3 of this paper.

AMENDMENT TO THE SPECIFICATION

On page 2 of the specification as filed, please amend the paragraph under BREIF DESCRIPTION OF THE DRAWINGS as follows:

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a front view of the machine.

Figure 2 is a rear view of the machine.

Figure 3 is a left-side view of the total machine.

Figure 4 is a right-side view of the total machine.

Figure 5 is a partial front view showing the available working tool volume.

Figure 6 is a view from the right side showing the available total tool volume.

Figure 7 is an expanded view of the assembly of item 30 demonstrating slide tables from a front view.

Figure 8 is an assembly of item 30 demonstrating XZ slide views in a right side view.

Figure 9A demonstrates a typical working tool being an electric digital probe.

Figure 9B demonstrates a typical working tool bit.

Figure 9C demonstrates a typical working burnishing brush.

Figure 9D demonstrates a typical working tool being a burnishing brush.

Figure 10A demonstrates a front view of rotatable tool holders about a central axis.

Figure 10B is a top view of rotatable tool holders about a central axis.

Figure 10C demonstrates rotatable tool holders showing a polishing brush rotatable on an assembly about a central axis.

Figure 11 is an expanded front view of the assembly of item 50 showing the chuck and drive mechanism.

Figure 12 is a cross section of figure 1 along section lines from figure 1.

Figure 13 is an expanded view of the assembly drive motor and machine base as viewed from the left side of the machine.

Figure 14 is an expanded partial cut away front view of a jaw 51 holder with leveling screws holding a wheel rim.

Figure 15 is a front view of the jaw 51 holder fro a wheel rim.

Figure 16 is a section view of section C-C from Fig. 14.

Figure 16A is a section view of section C-C from Fig. 14 with an exaggerated angle C for clarity.

REMARKS

Replacement sheets containing Figures 16 and 16A were previously filed in the subject application.

However, the Office noted that the specification did not contain a reference to these Figures under the BRIEF DESCRIPTION section of the application. Applicant amends herein the specification providing the required description. Applicant represents and asserts no new matter is added by this amendment.

Applicant believes this amendment obviates all remaining matters and respectfully requests the subject application proceed to issue.

Applicant hereby requests renewal and grant of the current petition pending in the subject application.

If any fee is due, authorization is granted to charge deposit account 505986 for The Law Office of David W. Barman, P.A.

Respectfully submitted,

/David W. Barman/
David W. Barman
Reg. No. 47225

August 13, 2014

The Law Office of
David W. Barman P.A.
17071 West Dixie Highway
North Miami Beach, Florida 33160
Tel.: (786) 361-6579
Fax: (786) 752-3228

Electronic Acknowledgement Receipt

EFS ID:	19851057
Application Number:	13247108
International Application Number:	
Confirmation Number:	3343
Title of Invention:	AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE
First Named Inventor/Applicant Name:	Brian Len
Customer Number:	11743
Filer:	David Wade Barman
Filer Authorized By:	
Attorney Docket Number:	LEN-004
Receipt Date:	13-AUG-2014
Filing Date:	28-SEP-2011
Time Stamp:	11:09:46
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	Petition for review by the Office of Petitions.	LEN-004-OAREPLY08132014.pdf	71897 <small>4ae7f7f70c920428c4b239e6e20df52d2e17c03c</small>	no	3

Warnings:

Information:

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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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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,108	09/28/2011	Brian Len	LEN-004	3343
11743	7590	08/11/2014	EXAMINER	
David W. Barman 17071 West Dixie Highway Miami, FL 33160			FRIDIE JR, WILLMON	
			ART UNIT	PAPER NUMBER
			3722	
			NOTIFICATION DATE	DELIVERY MODE
			08/11/2014	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

dwbarman@gmail.com
USPTO@dockettrak.com



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
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In re Application of :
Brian Len : ON PETITION
Application No. 13/247,108 :
Filed: September 28, 2011 :
Attorney Docket No. LEN-004 :

This is a decision on the petition under 37 CFR 1.137(b), filed on May 19, 2014, to revive the above-identified application.

The petition is **dismissed**.

Any request for reconsideration of this decision must be submitted within **TWO (2) MONTHS** from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. The reconsideration request should include a cover letter entitled “Renewed Petition under 37 CFR 1.137(a).” This is **not** a final agency action within the meaning of 5 U.S.C. § 704.

A grantable petition under 37 CFR 1.137(a) must be accompanied by: (1) the required reply, unless previously filed; (2) the petition fee as set forth in 37 CFR 1.17(m); (3) a statement that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 CFR 1.137(a) was unintentional; and (4) any terminal disclaimer (and fee as set forth in 37 CFR 1.20(d)) required by 37 CFR 1.137(d). Where there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137 was unintentional, the Director may require additional information. See MPEP 711.03(c)(II)(C) and (D). The instant petition lacks item(s) (1) above.

With regards to item (1), a Notice to File Corrected Application Papers (Notice) was mailed on December 31, 2013. The Notice required applicant to either amend the specification to contain a description of drawing Figures 16 and 16A or to correct the drawings by removing Figures 16 and 16A from the drawings. However, while applicant provided one replacement sheet of drawings, containing Figures 16 and 16A, applicant did not amend the specification to contain a brief description of the drawing figures. Therefore, the present petition cannot be granted at this time.

Art Unit: OPET

Further correspondence with respect to this matter should be delivered through one of the following mediums:

By mail: Mail Stop PETITIONS
 Commissioner for Patents
 Post Office Box 1450
 Alexandria, VA 22313-1450

By hand: Customer Service Window
 Mail Stop Petitions
 Randolph Building
 401 Dulany Street
 Alexandria, VA 22314

By fax: (571) 273-8300
 ATTN: Office of Petitions

By internet: EFS-Web¹

Telephone inquiries concerning this decision should be directed to the undersigned at (571) 272-3226.

Andrea Smith
Andrea Smith
Paralegal Specialist
Office of Petitions

¹ www.uspto.gov/ebc/efs_help.html (for help using EFS-Web call the Patent Electronic Business Center at (866) 217-9197)

Office of Petitions: Decision Count Sheet

Mailing Month

8

Application No.

13247108



For US serial numbers: enter number only, no slashes or commas. Ex: 10123456

For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official:

SMITH, ANDREA

Count (1) - Palm Credit

13/247,108

Decision: DISMISSED

FINANCE WORK NEEDED

Select Check Box for YES



Decision Type: 510 - 37 CFR 1.137(b) FOR REVIVAL TO ACCEPT LATE F



Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach 2nd count sheet & mark this box



Printed on: 8/6/2014

Office of Petitions: Routing Sheet



Application No. 13/247,108

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application.

GRANTED

DISMISSED

DENIED

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)**

Docket Number (Optional)
Len-004

Page 1 of 2

First named inventor: **Brian Len**
Application No.: **13/247,108** Art Unit: **3722**
Filed: **9-28-2011** Examiner: **Wilimon Fridie**

Title: **AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL
DUAL CONTROL LATHE**

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee – required for all utility and plant applications filed before June 8, 1995, and for all design applications; and
- (4) Statement that the entire delay was unintentional.

1. **Petition fee** **850.00**
 Small entity fee \$ _____ (37 CFR 1.17(m)). Applicant asserts small entity status. See 37 CFR 1.27.
 Undiscounted fee \$ _____ (37.CFR.1.17(m)).

2. **Reply and/or fee**
 A The reply and/or fee to the above-noted Office notice or action in the form of
Replacement Drawing Sheet _____ (identify the type of reply):
05-07-2014
 has been filed previously on _____
 is enclosed herewith.
 B The issue fee and publication fee (if applicable) of \$ _____
01-08-2014
 has been paid previously on _____
 is enclosed herewith.

This collection of information is required by 37 CFR 1.137(a). 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, 1.14 and 41.6. This collection is estimated to take 1 hour 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 Petition, 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.

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)**

Page 2 of 2

3. Terminal disclaimer with disclaimer fee

- Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(a) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(a) was unintentional. (MPEP 711.03(c), subsections (III)(C) and (D)).]

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

/David W. Barman/

05-19-2014

Signature

Date

David W. Barman

47225

Typed or Printed Name

Registration Number, if applicable

PO Box 613127

786-361-6579

Address

Telephone Number

Miami FL 33261

Address

Enclosures:

- Fee Payment
- Reply
- Terminal Disclaimer Form
- Additional sheet(s) containing statements establishing unintentional delay
- Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- Transmitted by EFS-Web or facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

05-19-2014

/David W. Barman/

Date

Signature

David W. Barman

Typed or printed name of person signing certificate

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	13247108
Filing Date:	28-Sep-2011
Title of Invention:	AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE
First Named Inventor/Applicant Name:	Brian Len
Filer:	David Wade Barman
Attorney Docket Number:	LEN-004

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:				
Pet. Revive Abandon App, Delay Pymt-Resp	2453	1	850	850

Patent-Appeals-and-Interference:

Post-Allowance-and-Post-Issuance:

Extension-of-Time:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				850

Electronic Acknowledgement Receipt

EFS ID:	19063117
Application Number:	13247108
International Application Number:	
Confirmation Number:	3343
Title of Invention:	AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE
First Named Inventor/Applicant Name:	Brian Len
Customer Number:	11743
Filer:	David Wade Barman
Filer Authorized By:	
Attorney Docket Number:	LEN-004
Receipt Date:	19-MAY-2014
Filing Date:	28-SEP-2011
Time Stamp:	13:31:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$850
RAM confirmation Number	11796
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Petition for review by the Office of Petitions.	Len-004-Petition-signed.pdf	241127	no	3
			ac2cf01299e6c509e4b4b767a21b0cd13f4c659f		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30147	no	2
			7a712c74ef489d801db8eda9844aecc8038f9d3e		

Warnings:

Information:

Total Files Size (in bytes):			271274		
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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

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.



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 22314-1450
www.uspto.gov

Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/247,108 09/28/2011 Brian Len LEN-004 3343
EXAMINER FRIDIE JR, WILLMON
ART UNIT PAPER NUMBER 3722
NOTIFICATION DATE DELIVERY MODE 05/19/2014 ELECTRONIC

Notice of Abandonment

This application is abandoned in view of:

- 1. [X] The applicant's failure to timely file a proper reply to the Office letter mailed on 12-31-13.
(a) [X] A reply was received on 5-7-14 (with a Certificate of Mailing or Transmission date 5-1-14), which is after the expiration of the period for reply...
2. [] Applicant's failure to timely pay the required issue fee and publication fee...
3. [] Applicant's failure to timely file corrected drawings...
4. [] Applicant's failure to timely file the inventor's oath or declaration...
5. [] Drawings received on... were disapproved by examiner...
6. [] Corrected drawings were received on... which is after the expiration of the one-month period...
7. [] No corrected drawings have been received in reply to one-month period...
8. [X] The reason(s) below: Please note the late response failed to correct the problem: Figs 16 and 16A are still not in the brief description.

Patent Publication Branch
Office of Data Management
(571)-272-4200 or 1(888)-786-0101

Practitioner's Docket No.: LEN - 004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 13/247,108 Confirmation No. 3343
Filing Date : September 28, 2011
Applicant : Brian Len
Title : Automotive wheel CNC (Computed Numerical Control) /
Manual Dual Control Lathe
TC/AU : 3722
Examiner : Willmon Freddie Jr.
Docket No. : LEN - 004
Customer No. : 11743

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

R E S P O N S E / A M E N D M E N T

S i r :

Responsive to the current Office action, kindly amend the above-identified application as follows:

- **Amendments to the Drawings** begin on page 2 of this paper.
- **Remarks** begin on page 3 of this paper.
- **Replacement Sheet** is submitted herewith.

Inventor: Len
Serial No.: 13/247,108

AMENDMENT TO THE DRAWINGS

Please delete drawing sheet of record having Fig. 16 and 16A thereon and enter replacement sheet submitted herewith.

Inventor: Len
Serial No.: 13/247,108

REMARKS

Please enter the drawing sheet submitted herewith.

If any fee is due, authorization is granted to charge deposit account 505986 for The Law Office of David W. Barman, P.A.

Respectfully submitted,

/David W. Barman/
David W. Barman
Reg. No. 47225

May 7, 2014

The Law Office of
David W. Barman P.A.
P.O. Box 613127
Miami, Florida 33261
Tel.: (786) 361-6579
Fax: (786) 752-3228

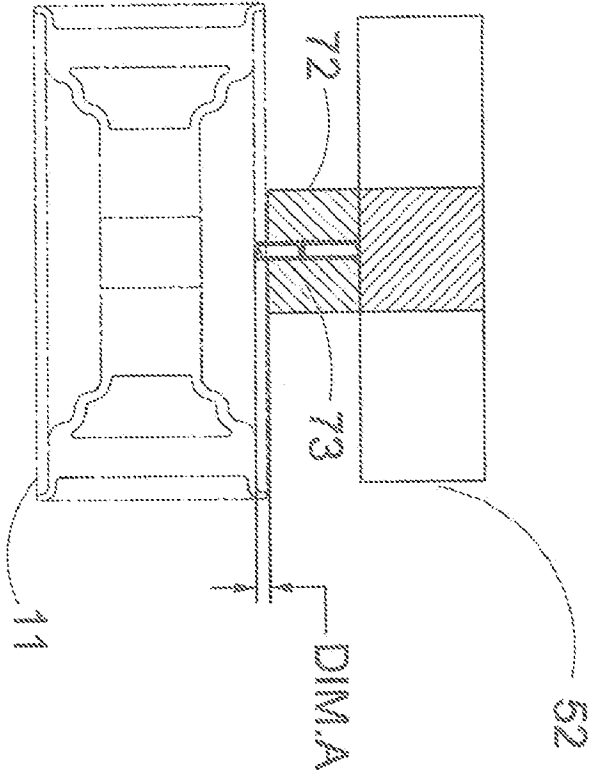


FIG. 16
SECTION C-C
OF FIG. 14

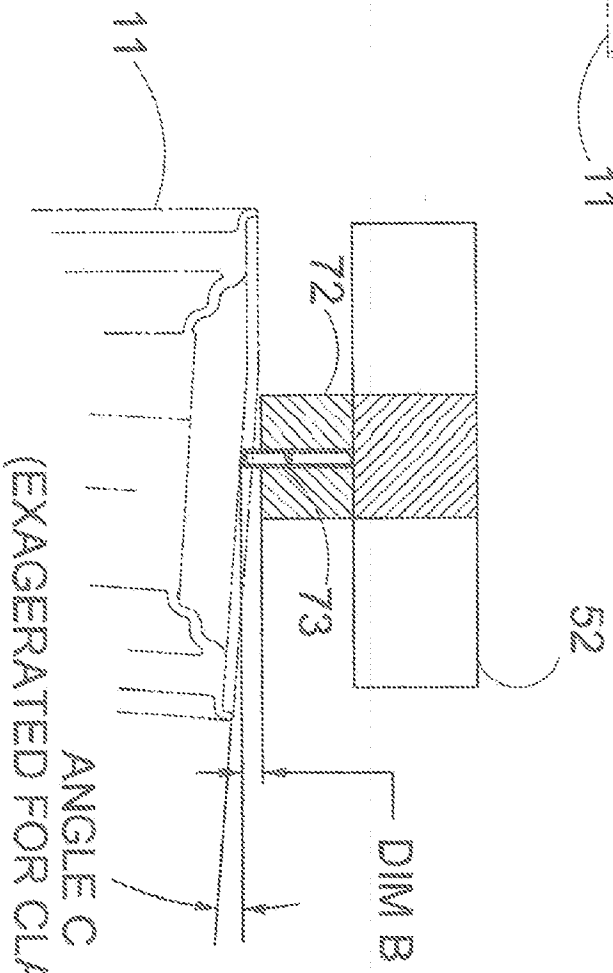


FIG. 16A
SECTION C-C OF FIG. 14

Electronic Acknowledgement Receipt

EFS ID:	18969642
Application Number:	13247108
International Application Number:	
Confirmation Number:	3343
Title of Invention:	AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE
First Named Inventor/Applicant Name:	Brian Len
Customer Number:	11743
Filer:	David Wade Barman
Filer Authorized By:	
Attorney Docket Number:	LEN-004
Receipt Date:	07-MAY-2014
Filing Date:	28-SEP-2011
Time Stamp:	16:02:45
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	Amendment after Notice of Allowance (Rule 312)	LEN-004-OAREPLY05072014.pdf	66880 2c68ebb10dee71fc4302857321ce6d53b2a171ff	no	3

Warnings:

Information:

2	Drawings-only black and white line drawings	len-004-FIG16-REPLACE.pdf	90656	no	1
			4e4d4add38092a166be1feb801695a719dfb0d2b		

Warnings:

Information:

Total Files Size (in bytes):	157536
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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

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.

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.

11743 7590 10/11/2013
David W. Barman
 P.O. Box 613127
 Miami, FL 33261-3127

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.
13/247,108	09/28/2011	Brian Len	LEN-004	3343

TITLE OF INVENTION: AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$890	\$300	\$0	\$1190	01/13/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
FRIDIE JR, WILLMON	3722	082-104000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "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.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,</p> <p>(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.</p>
	<p>1 <u>David W. Barman</u></p> <p>2 _____</p> <p>3 _____</p>

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

<p>4a. The following fee(s) are submitted:</p> <p><input checked="" type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input checked="" type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> 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).</p>
--	--

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

Applicant certifying micro entity status. See 37 CFR 1.29

Applicant asserting small entity status. See 37 CFR 1.27

Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see form PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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 /David W. Barman/

Date 01-08-2014

Typed or printed name David W. Barman

Registration No. 47225

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:	13247108
Filing Date:	28-Sep-2011
Title of Invention:	AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE
First Named Inventor/Applicant Name:	Brian Len
Filer:	David Wade Barman
Attorney Docket Number:	LEN-004

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	480	480

Extension-of-Time:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt

EFS ID:	17849785
Application Number:	13247108
International Application Number:	
Confirmation Number:	3343
Title of Invention:	AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE
First Named Inventor/Applicant Name:	Brian Len
Customer Number:	11743
Filer:	David Wade Barman
Filer Authorized By:	
Attorney Docket Number:	LEN-004
Receipt Date:	08-JAN-2014
Filing Date:	28-SEP-2011
Time Stamp:	11:33:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$480
RAM confirmation Number	8358
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Issue Fee Payment (PTO-85B)	LEN-004-IFEE-01082014.pdf	178853	no	2
			36087408568e9e7e97d517501272db7a627bb94b		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30024	no	2
			de84bf2d3577bbfd7e369b1188c6dbb734509fe7		
Warnings:					
Information:					
Total Files Size (in bytes):			208877		

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.

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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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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,108	09/28/2011	Brian Len	LEN-004	3343
11743	7590	12/31/2013	EXAMINER	
David W. Barman P.O. Box 613127 Miami, FL 33261-3127			FRIDIE JR, WILLMON	
			ART UNIT	PAPER NUMBER
			3722	
			NOTIFICATION DATE	DELIVERY MODE
			12/31/2013	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

dwbarman@gmail.com



UNITED STATES PATENT AND TRADEMARK OFFICE

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Application No. : 13247108
Applicant : Len
Filing Date : 09/28/2011
Date Mailed : 12/31/2013

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice, or the time remaining from the Notice of Allowance and Fee(s) Due, whichever is longer, within which to respond.

The informalities requiring correction are indicated in the attachment(s). If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to respond within the above-identified time period will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136(a).

See attachment(s).

*A copy of this notice **MUST** be returned with the reply. Please address response to
"Mail Stop Issue Fee, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450".*

/Joanna Black/
Publication Branch
Office of Data Management
(571) 272-4200

Application No. 13247108

IDENTIFICATION OF SPECIFICATION/DRAWING INCONSISTENCIES

- On Page of the specification there is a brief description of FIG. , but the drawings filed do not include a drawing with that designation. Applicant must respond either by supplying the omitted drawing or by amending the specification to remove all references to that drawing.
- The drawings filed 09/28/2011 include FIG. 16 and 16A, but the specification's brief description of the drawings does not describe a drawing with that designation. Applicant must respond either by amending the specification to add a brief description of that drawing or by correcting the drawings to remove the drawing in question.
- Drawings are present in the application and are referred to in the detailed description of the invention, but the specification does not contain a brief description of the drawings as required by 37 CFR 1.74 and 37 CFR 1.77(b)(8).
- Page of the specification refers to FIG. , but no drawing with that designation is described in the brief description of the drawings and no drawing with that designation is present in the application. Applicant must respond either by amending the specification to remove all references to that drawing, or by supplying that drawing and amending the specification to add a brief description of it.
- OTHER:
- COMMENTS:

IDENTIFICATION OF DRAWING DEFICIENCIES

- There is a hole or the image thereof within the illustration. FIG(s)
- The illustration is penetrated or traversed by a solid or broken line that is not intended to be part of the drawing, such as a dark line caused by a flaw in the copying process. FIG(s) 14, 15, 16A
- An ink stamp or the image thereof obscures part of the illustration. FIG(s)
- The drawing is marred by black smudges, obliterations, or fax/copier marks (for example, speckles or dots in a substantial portion of the drawing). FIG(s)
- Figure numbers are duplicated or missing. FIG(s)
- Drawing sheet or figure is missing. FIG(s)
- Numbers, letters, or reference characters in the drawing have been crossed out or are illegibly handwritten. FIG(s)
- The character of the lines, numbers, and letters is poor. FIG(s)
- The drawing's background shows that the original drawing was made on graph paper or other paper with a pattern or decoration. FIG(s)
- The FIG. number label is placed in a location that causes the drawing to be read upside down. FIG(s)
- Data, a reference number, or part of the drawing is truncated or missing, or a lead line has no reference number. FIG(s)
- The drawing and/or the FIG. label contain(s) foreign language. FIG(s)
- This utility application contains a photograph of a view that is capable of being illustrated as a line drawing. FIG(s)
- A petition under 37 CFR 1.84(a)(2) to accept color drawings has been granted, but the brief description of the drawings in the specification does not contain (or has not been amended to contain) the paragraph required by 37 CFR 1.84(a)(2)(iii).
- This reissue application contains amended drawings that are not labeled as "Amended" as required by 37 CFR 1.173(b)(3). FIG(s)
- OTHER:
- COMMENTS:



NOTICE OF ALLOWANCE AND FEE(S) DUE

11743 7590 10/11/2013
David W. Barman
P.O. Box 613127
Miami, FL 33261-3127

EXAMINER
FRIDIE JR, WILLMON
ART UNIT PAPER NUMBER

3722
DATE MAILED: 10/11/2013

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

13/247,108 09/28/2011 Brian Len LEN-004 3343
TITLE OF INVENTION: AUTOMOTIVE WHEEL CNC (COMPUTED NUMERICAL CONTROL) / MANUAL DUAL CONTROL LATHE

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

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 ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.
If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.
If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".
For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

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

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

IMPORTANT REMINDER: 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.

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

Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see form PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 13/247,108, 09/28/2011, Brian Len, LEN-004, 3343
Row 2: 11743, 7590, 10/11/2013, (Empty), (Empty)
Row 3: David W. Barman, P.O. Box 613127, Miami, FL 33261-3127, (Empty), (Empty)
Row 4: (Empty), (Empty), (Empty), EXAMINER, (Empty)
Row 5: (Empty), (Empty), (Empty), FRIDIE JR, WILLMON, (Empty)
Row 6: (Empty), (Empty), (Empty), ART UNIT, PAPER NUMBER
Row 7: (Empty), (Empty), (Empty), 3722, (Empty)

DATE MAILED: 10/11/2013

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 120 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 120 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.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**Notices of Allowance and Fee(s) Due mailed between October 1, 2013 and
December 31, 2013**

(Addendum to PTOL-85)

If the “Notice of Allowance and Fee(s) Due” has a mailing date on or after October 1, 2013 and before January 1, 2014, the following information is applicable to this application.

If the issue fee is being timely paid on or after January 1, 2014, the amount due is the issue fee and publication fee in effect January 1, 2014. On January 1, 2014, the issue fees set forth in 37 CFR 1.18 decrease significantly and the publication fee set forth in 37 CFR 1.18(d)(1) decreases to \$0.

If an issue fee or publication fee has been previously paid in this application, applicant is not entitled to a refund of the difference between the amount paid and the amount in effect on January 1, 2014.

Notice of Allowability	Application No. 13/247,108	Applicant(s) LEN, BRIAN	
	Examiner WILL FRIDIE JR	Art Unit 3722	AIA (First Inventor to File) Status No

-- 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 6/28/13.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. The allowed claim(s) is/are 1-6. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/oph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- 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.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 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. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Examiner's Amendment/Comment 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other _____. |
|--|---|

/Willmon Fridie/
Primary Examiner, Art Unit 3722

Search Notes 	Application/Control No. 13247108	Applicant(s)/Patent Under Reexamination LEN, BRIAN
	Examiner WILL FRIDIE JR	Art Unit 3724

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
82	104,117,142,146,152,155	3/22/13	wf
		10/7/13	wf

SEARCH NOTES		
Search Notes	Date	Examiner
esearch	3/13/13	wf
	10/7/13	wf

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
ishp	all of the above	10/7/13	wf

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Practitioner's Docket No.: LEN - 004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 13/247,108 Confirmation No. 3343
Filing Date : September 28, 2011
Applicant : Brian Len
Title : Automotive wheel CNC (Computed Numerical Control) /
Manual Dual Control Lathe
TC/AU : 3722
Examiner : Willmon Freddie Jr.
Docket No. : LEN - 004
Customer No. : 11743

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

R E S P O N S E / A M E N D M E N T

S i r :

Responsive to the Office action dated March 28, 2013, kindly amend the above-identified application as follows:

- **Amendments to the Claims** are reflected in the listing of claims, which begins on page 2 of this paper.
- **Remarks/Arguments** begin on page 4 of this paper.

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A machine for refinishing of repairing of damaged wheel rims comprising: selective operability as a manual lathe, CNC lathe, or combinations thereof; a rotational wheel rim holding spindle; a jaw for holding a wheel rim, said jaw having plurality of angular surface features that further secure said wheel rim said jaw plurality of angular surface configured with an adjustable decreasing diameter, and configured to pull, hold, and lock a wheel rim into either a wedge shape region or a back angle region of jaw; set screws imbedded in said jaw, wherein said set screws extend outward from an interior channel formed in said jaw and are utilized to level a wheel rim held in said jaw, said jaw and spindle configured in an arrangement imparting stability and engagement of wheel while under load of machining, acceleration, deceleration and high speeds; at least two platforms for supporting a tool post, said tool post is rotational about an axis while said spindle is moving and said tool post is moving, wherein said tool post holds a cutting tool in a configuration changably selectable from a first angle of cutting to a second angle of cutting whilst uninterruptably performing a lathing operation; wherein said tool post is movable along at least 2 of an x-axis, a y-axis, and a z-axis.

2. (original) The machine of claim 1 wherein said spindle is rotatable by moving a wheel rim secured thereto.

3. (cancelled).

4. (original) The machine of claim 1 wherein said tool post is moved manually, by a computer controlled program, or combinations thereof.

5. (original) The machine of claim 1 further comprising of a large swing about the spindle relative to size of a machine frame.

6. (original) The machine of claim 1 wherein said selective operability is performed while said wheel rim remains in said spindle.

REMARKS

Reconsideration of the application is requested.

This amendment/reply is in reply to the Office Action issued March 28, 2013 in the subject application. This amendment/reply is timely filed within the three (3) month time period for reply set forth in the Action.

Claims 1-6 remain in the application. Applicant amends claim 1 herein. Claim 3 is cancelled. Applicant represents and asserts no new matter is added by any amendment herein.

In view of MPEP 707.07 that requires an Office Action to be complete as to all matters, applicant proceeds under the understanding that the present claims are deemed patentable once distinction over the cited references is established.

I. REJECTIONS UNDER 35 USC 103

In "Claim Rejections – 35 USC § 103" on pages 2-4 of the above-identified Office Action, claims 1-6 have been rejected as being unpatentable over the Iwabuchi and Topil references of record under 35 U.S.C. § 103.

Applicant respectfully traverses this rejection.

Before discussing the prior art in detail, it is believed that a brief review of the invention as claimed, would be helpful. Claim 1 calls for, *inter alia*, a

a rotational wheel rim holding spindle; a jaw for holding a wheel rim, said jaw having plurality of angular surface features that further secure said wheel rim said jaw plurality of angular surface configured with an adjustable decreasing diameter, and configured to pull, hold, and lock a wheel rim into either a wedge shape region or a back angle region of jaw; set screws imbedded in said jaw, wherein said set screws extend outward from an interior channel formed in said jaw and are utilized to level a wheel rim held in said jaw, said jaw and spindle configured in an arrangement imparting stability and engagement of wheel while under load of machining, acceleration, deceleration and high speeds; at least two platforms for supporting a tool post, said tool post is rotational about an axis while said spindle is moving and said tool post is moving, wherein said tool post holds a cutting tool in a configuration changably selectable from a first angle of cutting to a second angle of cutting whilst uninterruptably performing a lathing operation (claim 1, emphasis added)

Thus, the machine of the present invention requires each of:

a plurality of angular surface configured with an adjustable decreasing diameter, and configured to pull, hold, and lock a wheel rim into either a wedge shape region or a back angle region of jaw; and

said tool post is rotational about an axis while said spindle is moving and said tool post is moving, wherein said tool post holds a cutting tool in a configuration changably selectable from a first angle of cutting to a second angle of cutting whilst uninterruptably performing a lathing operation.

Support for this amendment is found, at least, in the current application, page 21, lines 14 – 26; page 22, line 14-22; page 3, lines 9-14; and disclosure of Fig. 46 in U.S. Provisional Pat. App. Serial No. 61/387,047.

The cited references are deficient, at least, for failure to teach or suggest the plurality of jaws and configuration of a plurality of angular surface configured with an adjustable decreasing diameter, and a tool post is rotational about an axis while said spindle is moving and said tool post is moving, wherein said tool post holds a cutting tool in a configuration changably selectable from a first angle of cutting to a second angle of cutting whilst uninterruptably performing a lathing operation.

Applicant acknowledges that the current rejection is based on a combination of the cited references. Applicant will discuss each reference separately and conclude with a recitation showing how the combined disclosures fail to render the claimed invention obvious. This is not the impermissible "attacking of references separately" that is disfavored in patent practice. It is merely and efficient way to discuss the content of each reference and demonstrate how the combined disclosure remains deficient.

The Office Action, beginning on page 2, asserts that Iwabachi discloses the jaw of the present invention.

This is incorrect.

Iwabachi discloses

To achieve the above object, there is provided in accordance with the present invention a multi-axis turning center comprising: a spindle head; a spindle rotatably supported by the spindle head; a table or a headstock for gripping and rotating a workpiece thereon, the table or the headstock being disposed in confronting relation to the spindle, the spindle head being relatively movable in the three mutually transverse axes directions to the workpiece gripped and rotated by the table or the headstock; and a multi-point turning tool, mounted on the spindle and having a plurality of tips, for turning the workpiece gripped and supported by the table or the headstock; wherein the spindle head is movable to translate the multi-point turning tool to one of positions around the workpiece, and the tips are selectively used depending **on the one of the positions to turn the workpiece** (Iwabachi, col. 3, lines 1-16).

Iwabachi is limited to one single position, i.e single angle, while the spindle and/or toolpost is moving. There is no teaching or suggestion in Iwabachi for either of the claimed jaw with plurality of angular surfaces or toolpost that is changably selectable from a first angle of cutting to a second angle of cutting whilst uninterruptably performing a lathing operation of the present invention. In order to change the angle of the Iwabachi device, one would need to stop all movement of the tool post, a step not required or desired in the machine of the present invention.

Combination with Topil fails to cure the deficiency because Topil only teaches an article used in conjunction with a workpiece used with a multiple jaw chuck and the article of Topil is deficient for failing to teach or suggest either the jaw having plurality of angular surface features or the toolpost as claimed. An article such as those in Topil, being a secondary device connected to a lathe chuck, is known to persons having skill in the art to have diminished stability and would not be suitable for use in a wheel rim lathe operation.

The KSR decision recognized that there still must be an articulated reasoning found in the prior art.

“[R]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness.” *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006), cited with approval in *KSR Int'l. Co. v. Teleflex Inc.*, 550 U.S. 398, 417-18 (2007).

The present application falls squarely into the KSR analysis because there is no articulated reasoning within the references relating to the jaw configuration and tool post as currently claimed.

At best, combination of Iwabuchi with Topil will teach a person of ordinary skill in the art to take a secondary member, attach to the chuck of a lathe, and apply a cutting tool at a single angle. In view of the failure of the cited references to teach or suggest the current invention, Applicant asserts a rejection under 35 USC 103 cannot be properly maintained. Applicant respectfully requests reconsideration and withdrawal of this rejection.

Claim 1 is, therefore, believed to be patentable over the art. The dependent claims are believed to be patentable as well because they all are ultimately dependent on claim 1.

In view of the foregoing, reconsideration and allowance of claims 1-2, and 4-6 are solicited.

Inventor: Len
Serial No.: 13/247,108

In the event the Examiner should still find any of the claims to be unpatentable, counsel would appreciate receiving a telephone call so that, if possible, patentable language can be worked out.

Respectfully submitted,

/David W. Barman/
David W. Barman
Reg. No. 47225

June 28, 2013

The Law Office of
David W. Barman P.A.
P.O. Box 613127
Miami, Florida 33261
Tel.: (786) 361-6579
Fax: (786) 752-3228

Electronic Acknowledgement Receipt

EFS ID:	16189062
Application Number:	13247108
International Application Number:	
Confirmation Number:	3343
Title of Invention:	Automotive wheel CNC (Computed Numerical Control) / Manual Dual Control Lathe
First Named Inventor/Applicant Name:	Brian Len
Customer Number:	11743
Filer:	David Wade Barman
Filer Authorized By:	
Attorney Docket Number:	Len-004
Receipt Date:	28-JUN-2013
Filing Date:	28-SEP-2011
Time Stamp:	15:09:04
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	Amendment/Req. Reconsideration-After Non-Final Reject	LEN-004-OAREPLY06282013.pdf	108639 <small>f5f65993ad5f10387691ba12aafb6ec0a9293bc6</small>	no	9

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.

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 13/247,108	Filing Date 09/28/2011	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	
AMENDMENT	06/28/2013	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR			
		*	Minus	** 20	= 0	X \$40 = 0	
		*	Minus	***3	= 0	X \$210 = 0	
		<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>					
		<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>					
					TOTAL ADD'L FEE	0	

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR			
		*	Minus	**	=	X \$ =	
		*	Minus	***	=	X \$ =	
		<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>					
		<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>					
					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.

LIE
/ALLYSON PURNELL/

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.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,108	09/28/2011	Brian Len	Len-004	3343
11743	7590	03/28/2013	EXAMINER	
David W. Barman P.O. Box 613127 Miami, FL 33261-3127			FRIDIE JR, WILLMON	
			ART UNIT	PAPER NUMBER
			3722	
			NOTIFICATION DATE	DELIVERY MODE
			03/28/2013	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

dwbarman@gmail.com

Office Action Summary	Application No. 13/247,108	Applicant(s) LEN, BRIAN	
	Examiner WILL FRIDIE JR	Art Unit 3724	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 28 September 2011.
- 2a) This action is **FINAL**.
- 2b) This action is non-final.
- 3) An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) Claim(s) 1-6 is/are pending in the application.
- 5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) Claim(s) _____ is/are allowed.
- 7) Claim(s) 1-6 is/are rejected.
- 8) Claim(s) _____ is/are objected to.
- 9) Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) The specification is objected to by the Examiner.
- 11) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) 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:
 - 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)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 3) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 4) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwabuchi et al. (7506423) in view of Topil (7802501).

Iwabuchi et al. disclose a jaw (109), at least two platforms for supporting a tool post (103); wherein said tool post is movable along at least 2 of an x-axis, a y-axis, and a z-axis, wherein said spindle is rotatable and said tool post is rotational about on an axis and wherein said tool post is moved manually, by a computer controlled program, or combinations thereof.

Iwabuchi et al. lack the disclosure of a jaw having plurality of angular surface features that further secure a workpiece; set screws imbedded in said jaw, wherein said set

Art Unit: 3724

screws extend outward from an interior channel formed in said jaw and are utilized to level a workpiece held in said jaw.

Topil discloses a jaw having plurality of angular surface features that further secure a workpiece; set screws (76) imbedded in said jaw, wherein said set screws extend outward from an interior channel formed in said jaw and are utilized to level a workpiece held in said jaw.

It would have been obvious to a skilled artisan at the time of the invention to replace the jaw of Iwabuchi et al. with the jaw arrangement of Topil to insure a firmer grip of the workpiece.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILL FRIDIE JR whose telephone number is (571)272-4476. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ASHLEY BOYER can be reached on 571 272 4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3724

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.

wf

/Willmon Fridie/
Primary Examiner, Art Unit 3724/

Notice of References Cited	Application/Control No. 13/247,108	Applicant(s)/Patent Under Reexamination LEN, BRIAN	
	Examiner WILL FRIDIE JR	Art Unit 3724	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-4,777,713 A	10-1988	Kitamura, Koichiro	483/22
*	B US-2003/0198274 A1	10-2003	Lucchetti, Richard L.	372/109
*	C US-7,043,805 B2	05-2006	Tokuma et al.	29/27C
*	D US-7,243,584 B1	07-2007	Gatton, Geoffrey L.	82/142
*	E US-7,240,412 B2	07-2007	Sasazawa et al.	29/27C
*	F US-7,506,423 B2	03-2009	Iwabuchi et al.	29/27C
*	G US-7,802,501 B1	09-2010	Topil, Lubomir	82/152
*	H US-8,353,095 B2	01-2013	Hall, James W.	29/560
	I US-			
	J US-			
	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

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	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.

Search Notes 	Application/Control No. 13247108	Applicant(s)/Patent Under Reexamination LEN, BRIAN
	Examiner WILL FRIDIE JR	Art Unit 3724

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
82	104,117	3/22/13	wf

SEARCH NOTES		
Search Notes	Date	Examiner
esearch	3/13/13	wf

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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BIB DATA SHEET
CONFIRMATION NO. 3343

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO. Len-004	
13/247,108	09/28/2011	082	3724		
APPLICANTS Brian Len, Coral Springs, FL; ** CONTINUING DATA ***** This appln claims benefit of 61/387,047 09/28/2010 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 10/12/2011					
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Verified and Acknowledged <u>/WILL FRIDIE JR/</u> Examiner's Signature	<input type="checkbox"/> Met after Allowance Initials _____	STATE OR COUNTRY FL	SHEETS DRAWINGS 13	TOTAL CLAIMS 6	INDEPENDENT CLAIMS 1
ADDRESS David W. Barman P.O. Box 613127 Miami, FL 33261-3127 UNITED STATES					
TITLE Automotive wheel CNC (Computed Numerical Control) / Manual Dual Control Lathe					
FILING FEE RECEIVED 530	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		


EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	82/104.ccls. and (jaws same screw)	USPAT	OR	OFF	2013/03/22 19:17
L2	0	82/104.ccls. and (chuck same screw)	USPAT	OR	OFF	2013/03/22 19:18
L3	317	"82"/\$.ccls. and (chuck same screw)	USPAT	OR	OFF	2013/03/22 19:18
L4	192	l3 and lathe	USPAT	OR	OFF	2013/03/22 19:19
L5	38	l4 and jaw	USPAT	OR	OFF	2013/03/22 19:19
L6	360	82/104.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/03/22 19:25
L7	30	82/104.ccls. and chuck	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/03/22 19:26
L8	63	lathe same wheel same rim same chuck	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/03/22 19:28
L9	907	lathe same wheel same chuck	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/03/22 19:31
L10	78	82/117.ccls. and chuck	USPAT	OR	OFF	2013/03/22 19:54

3/ 22/ 2013 8:05:13 PM

C:\Users\wfridie\Documents\EAST\Workspaces\13045515.wsp

<i>Index of Claims</i> 	Application/Control No. 13247108	Applicant(s)/Patent Under Reexamination LEN, BRIAN
	Examiner WILL FRIDIE JR	Art Unit 3724

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

CLAIM		DATE							
Final	Original	03/22/2013							
	1	✓							
	2	✓							
	3	✓							
	4	✓							
	5	✓							
	6	✓							



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Table with 4 columns: APPLICATION NUMBER (13/247,108), FILING OR 371(C) DATE (09/28/2011), FIRST NAMED APPLICANT (Brian Len), ATTY. DOCKET NO./TITLE (Len-004)

CONFIRMATION NO. 3343

PUBLICATION NOTICE



11743
David W. Barman
P.O. Box 613127
Miami, FL 33261-3127

Title:Automotive wheel CNC (Computed Numerical Control) / Manual Dual Control Lathe

Publication No.US-2012-0073413-A1
Publication Date:03/29/2012

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

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Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
13/247,108

APPLICATION AS FILED - PART I

(Column 1) (Column 2)

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(j))	6 minus 20 = *	*
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 = *	*
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 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).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

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

SMALL ENTITY

RATE(\$)	FEE(\$)
N/A	95
N/A	310
N/A	125
x 30 =	0.00
x 125 =	0.00
	0.00
	0.00
TOTAL	530

OR OTHER THAN SMALL ENTITY

RATE(\$)	FEE(\$)
N/A	
N/A	
N/A	
TOTAL	

APPLICATION AS AMENDED - PART II

(Column 1) (Column 2) (Column 3)

AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(j))	*	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))					

SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

OR OTHER THAN SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

(Column 1) (Column 2) (Column 3)

AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(j))	*	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 =	
x =	
TOTAL ADD'L FEE	

OR OTHER THAN SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/247,108	09/28/2011	Brian Len	Len-004

CONFIRMATION NO. 3343

POA ACCEPTANCE LETTER



11743
David W. Barman
P.O. Box 613127
Miami, FL 33261-3127

Date Mailed: 10/14/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/28/2011.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/tnguyen/

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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY.DOCKET.NO, TOT CLAIMS, IND CLAIMS. Row 1: 13/247,108, 09/28/2011, 3724, 530, Len-004, 6, 1

CONFIRMATION NO. 3343

11743
David W. Barman
P.O. Box 613127
Miami, FL 33261-3127

FILING RECEIPT



Date Mailed: 10/14/2011

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 submit a written request for a Filing Receipt Correction. 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)

Brian Len, Coral Springs, FL;

Power of Attorney: The patent practitioners associated with Customer Number 11743

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/387,047 09/28/2010

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 13/247,108

Projected Publication Date: 03/29/2012

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Automotive wheel CNC (Computed Numerical Control) / Manual Dual Control Lathe

Preliminary Class

082

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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	
	Filing Date	
	First Named Inventor	Brian Len
	Title	Automotive Wheel
	Art Unit	
	Examiner Name	
	Attorney Docket Number	Len-004

I hereby revoke all previous powers of attorney given in the above-identified application.

 A Power of Attorney is submitted herewith.

OR

 I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

11743

OR

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Practitioner(s) Name	Registration Number

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Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____

SIGNATURE of Applicant or Assignee of Record

Signature

Date

9/28/2011

Name

BRIAN LEN

Telephone

305 3600895

Title and Company

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.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of
Invention

Automotive wheel CNC (Computed Numerical Control) / Manual Dual Control Lathe

As the below named inventor(s), I/we declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number _____

filed on _____



As amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought.

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.55, 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.

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FULL NAME OF INVENTOR(S)

Inventor one: Brian Len Date: 9/28/2011

Signature: [Signature] Citizen of: USA

Inventor two: _____ Date: _____

Signature: _____ Citizen of: _____

Additional inventors or a legal representative are being named on _____ additional form(s) attached hereto.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
NON-PROVISIONAL PATENT APPLICATION

Title: Automotive wheel CNC (Computed Numerical Control) / Manual Dual
Control Lathe

Inventor: Brian Len, Coral Springs, FL.

INDEX TO RELATED APPLICATIONS

This application claims the benefit of U.S. Provisional Patent Application Serial No. 61/387,047 filed September 28, 2010, the disclosure of which is incorporated herein by reference in its entirety.

BACKGROUND OF THE INVENTION

The present invention relates to a method and device for repairing wheel rims, and more particularly, to a method and device for repairing the rims of automobiles after the rims have been dented or bent out of shape.

In accordance with one aspect of the present invention, there is provided a machine useful for repairing the rims of wheels. The machine may be used with wheels of any composition including, but not limited to metals, metal alloys, composites and the like. According to a further aspect of the present invention, a method is provided for repairing the wheel rims of motor vehicles.

BRIEF SUMMARY OF THE INVENTION

The present invention is a machine for refinishing of repairing of damaged wheel rims comprising: selective operability as a manual lathe, CNC lathe, or combinations thereof; a rotational wheel rim holding spindle; a jaw for holding a wheel rim, said jaw having plurality of angular surface features that further secure said wheel rim; set screws imbedded in said jaw, wherein said set screws extend outward from an interior channel formed in said jaw and are utilized to level a wheel rim held in said jaw; at least two platforms for supporting a tool post; wherein said tool post is movable along at least 2 of an x-axis, a y-axis, and a z-axis.

The machine spindle is rotatable by moving a wheel rim secured thereto. The tool post is rotational about on an axis and is moved manually, by a computer controlled program, or combinations thereof. The machine selective operability in manual or CNC mode is performed while said wheel rim remains in said spindle.

The machine has a large swing about the spindle relative to size of a machine frame.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a front view of the machine.

Figure 2 is a rear view of the machine.

Figure 3 is a left-side view of the total machine.

Figure 4 is a right-side view of the total machine.

Figure 5 is a partial front view showing the available working tool volume.

Figure 6 is a view from the right side showing the available total tool volume.

Figure 7 is an expanded view of the assembly of item 30 demonstrating slide tables from a front view.

Figure 8 is an assembly of item 30 demonstrating XZ slide views in a right side view.

Figure 9A demonstrates a typical working tool being an electric digital probe.

Figure 9B demonstrates a typical working tool bit.

Figure 9C demonstrates a typical working burnishing brush.

Figure 9D demonstrates a typical working tool being a burnishing brush.

Figure 10A demonstrates a front view of rotatable tool holders about a central axis.

Figure 10B is a top view of rotatable tool holders about a central axis.

Figure 10C demonstrates rotatable tool holders showing a polishing brush rotatable on an assembly about a central axis.

Figure 11 is an expanded front view of the assembly of item 50 showing the chuck and drive mechanism.

Figure 12 is a cross section of figure 1 along section lines from figure 1.

Figure 13 is an expanded view of the assembly drive motor and machine base as viewed from the left side of the machine.

Figure 14 is an expanded partial cut away front view of a jaw 51 holder with leveling screws holding a wheel rim.

Figure 15 is a front view of the jaw 51 holder from a wheel rim.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Machine lathe 10 as described herein references the total assembly. The machine is formed of various subassemblies each numbered for the sake of description. Headstock mechanism 50 acutely secures an article to be machined in a desired position. Tool post mechanism 2 provides for guidance of various typical working tools, bits, probes and the like used in the machining process. Sliding table mechanism 30 provides for movement of the entire tool post

mechanism 2 in order to effectuate machining with applicable working tools, bits, probes and the like. The machine lathe 10 further includes a microcomputer system 8 whereby automated machining can be controlled. Microcomputer 8 is operatively associated with the various movements of tool post mechanism 2 and other such mechanisms to provide computer control machine lathing. Machine lathe 10 further encompasses at least one door 12 and at least one transparent window 20 that slideably moves along safety door sliding rod 13 and is secured into a fixed enclosed position with safety door bracket 14. A light fixture 15 is installed on the interior of the machine such that light fixture 15 illuminates a working article when door 12 is in a closed position. Door 12 is secured into a closed position by door latch 19. Machine envelope frame 7 is a welded steel frame and is secured to machine base 9. Machine base 9 and machine envelope frame 7 support each of the component parts of machine lathe 10. Machine base 9 has incorporated therein leveling devices 17 which are adjustable such that machine lathe 10 can be leveled even if the surface upon which machine lathe 10 is residing is not completely leveled. As shown in figure 2 machine lathe 10 has incorporated thereon a base plate for which is removable and provides for internal access of electrical power supply and microcomputer assembly 8. As seen in figure 4 a drive motor 61 is mounted on a motor mount 62 and interacts with headstock 50 that holds an article to be machined such that tool post 2 provides for interaction with the article to be machine lathed. Figure 5 is a front view showing the working space for machine lathe 10 in one embodiment dimension A being the overall lathe bed is aprox 48 inches long by 20 inches wide The floor size of machine is about 72" x 48".

Dimension C being lathe height is approximately 73 inches. Dimension D is the tool clearance diameter being the maximum throw of approximately 30 inches. Dimension Z is the lathe tool bed range of approximately 24 inches. It has always been a problem in the wheel repair industry to obtain a lathe that is small in floor footprint but with a large diameter swing. Swing is the maximum diameter of the workpiece. Some lathes are designed with a gap between the bed rails that allow the part to swing below the bottom of the headstock. The reason for this is that production machines increase length of machine with swing. This is a industry norm.

There are not many machines at all that have such a large swing without removing the gap. The problem with a machine that has the possibility of removing the gap is that this would only create a larger swing over a short distance along the bed. This would normally be helpful in working on a flat round plate of not more that a few inches wide. With a wheel in place in the jaws it would extend past where the gap was thus making the removal of the gap useless.

As per figure 5 the working space is a ratio of approximately 1:1.in working area. in other words there is approximately 30 inches of swing over bed with about 30 inches of tool post travel.

There is no need to have a long bed for a relatively narrow wheel. However it is desired that the swing over bed to accommodate the larger wheels manufactured today.

In keeping the bed length short and widening the swing over, a more realistic and economical

machine is created.

As seen in figure 7 the directional movement is effectuated as follows: Product piece 11 is a typical article in which machine lathing is desired in one embodiment of the present invention article 11 is a wheel rim. Tool post assembly 2 holds a probe 31 or other typical working tool, bit or other working tool or bit to be used in the lathing process. Barrel 32 is a steel barrel with set screws to lock probe in position and secures probe 31 into position. A quick released tool retainer 33 is a fixed on top of tool mount 34 such that the entirety of tool post mechanism 2 is moved by table mechanism 30. Table mechanism 30 is formed of a hand wheel 35 for the "X" slide whereby table mechanism 30 is moved along an x axis by either the hand wheel 35 or the servo motor 46 attached to the other end of the ball screw 47. Table mechanism 30 is further moved by x slide rail 37 that moves along x slide mount bar 36. Movement along the x axis is accomplished through rotational movement of hand wheel 35 when power is removed from servo motor 46. When servo motor 46 is powered up then said movement is created along slides by motor 46 rotating ball screw 47. Z slide hand wheel 43 moves along a z direction through corporation of a pinion gear 63 that runs along manual z rack 42. Movement within z slide mount bar upper 44 and z slide rail upper 45 is initialized by rotation of z servo motor 39. As used herein an x movement of the slide is relative movement That will run parallel to the face of the automotive wheel 11. and is provided by x slide mount bar 36 and provides the desired motion. As used herein the z direction is provided by lead screw 41 that is supported by a pair of lead screw end mounts 40. The mechanism moves by virtue of interaction of z lead screw 41 with z slide mount bar 44 and z slide rail 45. As seen in figure 8, the x direction of movement provides movement of tool post assembly 2 mounted on table mechanism 30. Tool holder 33 is mounted on rotational plate 29 and fastened into position with fastening bolts 70. Slide rail 37 connects to tool post assembly 2 by support 34 being tool mount 34. In use an operator will open safety door 12 in order to access the working mechanisms of machine lathe 10. Article 11, in this example being non-limiting article 11 is an automotive wheel rim is attached to headstock 50. Headstock 50 is constructed and arranged as a truck and drive assembly with a chuckjaw or jaw 51 and a headstock shaft 52 as best seen in figure 13. A t-bolt slot 53 allows for t-bolt 54 to be placed therein. Bearing 55 is placed within bearing spacer column 56 and locked into a fixed position through bearing retainer nut 57. Drivebelt 58 interacts with electromagnetic clutch 59 and is moved by virtue of connection with motor pulley 65 rotational movement of motor 61 turns motor pulley 65 moving drivebelt 58 and subsequently turning tailstock pulley 66. The rotational movement imparted by rotational motion of motor 61 ultimately turns automotive wheel 11 in a rotational manner. The fixed rotational movement of automotive wheel rim 11 allows it to be machined through any of the appropriate machine tools that will ultimately contact automotive wheel 11 by virtue of movement of tool post assembly 2.

In one embodiment, shown in Figs. 14 and 15 headstock 50 supports a chuck jaw 72. Chuck jaw 72 has a plurality of angular surface features that further secure a wheel rim 11 while being machined on machine 10. Chuck jaw 72 has incorporated therein a plurality of set screws 73. The set screws can be unscrewed outward from the surface of chuck jaw 72 in order to provide a horizontal level to wheel rim 11.

CNC/manual abilities with reference fig 7:

There are two independent methods of moving in and out in the Z direction. This is a method that has not been done before. The lower slides 68 will harness any movement created by hand wheel 43 with transfer through a rack and gear 42 to create travel in a z direction along 68 the lower z slide rail. This movement will in effect move the complete machine from that point up. The machine can then be moved manually toward and away from the wheel 11. One level up there is another set of set of z slide rails/upper 45 which is under power by z servo motor 39 with transfer through ball screw 41. As mentioned previous, these methods of movement are in the same z direction and act independently of each other.

With this in mind, we can now do two things as a result of this. One is that as we don't need any homing in this machine as start values are set for every new wheel on the machine, we can now use this to create both manual and cnc movement.

On the one hand the manual and CNC can work independent or in unison with each other. Should the brake 72 be in the locked position then just the CNC would be working. Should the brake be unlocked then while the cnc is running a program (i.e. cutting a wheel) adjustments can be made by the operator to cut just that little bit more, or less, in a specific area on the wheel. This would be beneficial in the event that there is a deep gouge in a certain area of the wheel and be best to cut only deeper in that specific spot. the operator would very slowly move hand wheel 43 in at that area and then begin moving it out after the CNC has passed the bad spot.

Machine lathe 10 is uniquely configured to selectively operate as either a CNC (Computed Numerical Control) lathe or a manual lathe. The CNC is used mainly for the correction of cosmetic damage to the face of a wheel rim.

There are certain wheels that are known to have a diamond polish, also known as a machined finished. The side of the wheel rim (i.e. the side visible when mounted on a car), is originally factory cut to a certain given shape. The final cuts are then made with a diamond shaped insert

so as leave a bright, bare metal, screw cut type look. This finish has become popular on many of the wheels that are available today.

In the case that one of these wheels are cosmetically damaged, a light trim with the lathe on “CNC mode”, would be able to correct that.

Machine lathe 10 is used in manual mode to give the operator the ability to hand finish or hand repair certain conditions on a wheel without the assistance of any motors or electrical assists.

A conventional, or off the shelf lathe is suited for many purposes and possible jobs, a large machine with a large footprint to be able to accept wheels in the sizes that are manufactured in present times today.

Machine 10 of the present invention is constructed and arranged to accommodate the wheel sizes and shapes and instead of the wheels being accommodated by the machine, the machine 10 is built to accommodate the wheel. It is thus capable of doing large and small wheels and still having a small footprint, thus reducing floor space needed.

It is an advantage for any wheel shop to have both a CNC lathe and a fully manual lathe. In other words two separate machines are normally needed.

For ease of operation, machine 10 is combined into one within the new Automotive wheel CNC (computed Numerical Control) lathe. This machine is now capable of either being a complete CNC machine on the one hand, or with the push of a button, it can convert to a fully manual machine on the other.

The manual machines movement of tool post within its axis is initiated by a human with the turning of hand wheels, that manually will move method of traverse (e.g. ball screws, lead screws or rack). This will in turn create movement of the desired tool post.

The chuck will be controlled by an on/off switch with speed selection that will be controlled manually by the operator of machine. Thus the machine will be controlled totally by operator.

The same movement can be created by a similar method on most CNC machines, the manual turning of the hand wheel is transferred to electrical methods of controlling the servo motors to move method of traverse, (e.g. ball screws or rack) which will in turn move the tool post. In other words, all manual movements are transferred into electrical and thus not a totally manual machine.

Manual lathe machines are not powered via a computer control. All actions are carried out by an operator. This is necessary in some instances where certain procedures need to be carried out with human judgment and control. The chuck will still be powered by a motor, but speeds and on/off power is controlled by the operator of machine. The tool post movement is not created by a motor or computer at all. It is initiated by a hand wheel which is physically turned by the operator and thus will create the desired resistance between the part and the cutting tool.

The distinguishing factor of why the machine should be totally manual and not partially, is that the operator gets a feeling of resistance on the hand wheels when there is no electrical assist. At times, it is necessary to round off corners without cutting too deep into the surface of wheel. This becomes possible with a totally manual machine operated by a skilled artisan.

Should this be tried on a CNC machine with hand wheels, no resistance is felt and much deeper than desired cuts can be made that may damage the wheel rim beyond repair.

In a CNC machine, the movement of tool post and chuck are controlled by the computer, thus the term computed numerical control. The computer will command that power be supplied to motors in controlled amounts, to rotate at given speeds via the control unit which gets feed back from an encoder attached to motor. With this information, the computer can now track the updated location on the grid.

Thus, the computer will know where the tool post is located on the "X" and "Z" grid. In saying this the computer will also control speed of rotation of chuck. So, if a pattern to follow or program is loaded on the computer that has all this information stored, the computer now has the ability to complete the run with out any assistance from a human.

The combined CNC/manual lathe 10 provides several advantageous over conventional machines including, but not limited to: Saving job time - If a wheel is already on the machine, there is the possibility of doing some repair work and then at the same time doing cosmetic work which is a time saver as set up time is reduced; Space - this machine will eliminate the need for two machines that require large floor area; energy consumption - the machine of the invention is built to have enough power to complete any wheel related job. A regular production machine that is large enough for wheels will be an overkill on motor sizes etc. and will thus need much larger amounts of energy to complete the same job on same wheel; Cost of equipment and setup - all costs will be reduced as machine is smaller, item specific and is two machines in one; Ease of use - the machine is built for one purpose, namely wheels. The programming etc. is based on this as well as the size as are many other factors too numerous too mention.

Machine 10 is unique in combining axis movement or motion on the CNC/manual lathe:

The CNC/Manual combination lathe machine 10 of the present invention is capable of doing full CNC work with movement created by either motors or hydraulics, but also has the ability to do fully manual controlled movements created by the operator with hand wheels without any electrical assists. This is made possible in two different ways .

The first will be called multi level stacking of platforms. The second is to enable rotation of one ball screw by two or more methods of power transfer.

The first, with the aid of the multi level platforms that enable movement on the same or different axis. An example of this is where there will be two or more separate platforms that will travel in the same direction. In other words, there may be two or three platforms of travel on the x axis alone. In this event the one platform will be controlled by a motor (for CNC work). The second may be controlled by a manual hand wheel (for manual lathe), while a possible third level may include hydraulics.

The bottom "Z" axis can in fact be thought of as an axis that can in fact move the complete cnc machine forward and back as all the motors etc will be on platforms that are on top of the bottom axis. This lower platform can thus be totally free of any motors and can be totally manual in all aspects as there is no electric or motors controlling it. It can either be manually moved or locked in place so as to allow the upper platforms to work. Movement on this can either be on a ball screw or a rack and gear.

The second method is by withdrawing the power from a motor that is energizing a ball screw, the motor itself can now be manually turned. This could create a scenario where there may be a hand wheel on the one end of a ball screw and on the other end a motor. Should the motor be powered, it could turn the ball screw and if it were not, the hand wheel would be able to turn the screw and thus turn the motor as well.

So therefore it can be said that movement of ball screw, rack, or lead screw, can either be made with: A motor (electrically operated); the operator turning a dial which will in turn, manually move the screw; hydraulic cylinders; or combinations thereof. The above can control the CNC and manual movement and use of the lathe, either independently or in conjunction with one another.

All of the above methods of motion can control the CNC and manual methods of the lathe, either independently or in conjunction with one another. This will allow the combining of the two machines into one.

Machine 10 has a sturdy frame 7 that is built to accept linear rails as its guides. As the machine needs weight to provide stability, heavy duty steel and also concrete are used in the construction of frame. The weight is needed as when wheel spins there may be an imbalance caused as a result and weight in the machine itself will help in this regard.

Various methods can be used and at times could be a combination of the under mentioned methods. Linear rails - For the most part linear rails and guides are used in the present invention. In applications involving polishing wherein particulate is created alternative rails or methods of traverse may be used. Another method could be the dovetail and gib that is commonly used on production machines.

Certain lock downs are necessary in the present invention. These lockdowns will prevent any undesirable movements within any axis when the CNC part of machine is in action. The brake can lock down a manual axis and disallow these movements. Various types of brakes which normally lock upon the linear rail are used. Alternatively, any acceptable brake can be used. The two most common are pneumatic and manual. Either of the two can be used. In the event of it being pneumatic, then control of the unit will be initiated by the computer. If it were a manual then control would be by the operator of machine.

A gear box is used to create a similar direction of manual movement to that of a conventional manual production lathe. This is done so as not to confuse the operator of machine that may have may have grown accustomed to production machines. The gearbox can also have the ability to disengage the hand wheel while under power of the motor on the other end of the ball screw. This would occur when the CNC or computer is controlling machine. In this event the motor would turn the screw, but the hand wheel would not turn. However, when power is released from the motor and the manual lathe is desired, the hand rail can be depressed back in toward the gearbox, thus engaging such so that hand wheel will now in turn, turn the ball screw.

A CNC lathe will also often have hand wheels. Again the problem with this, is that these wheels generate power to servo motors which create the desired movement. The problem with this is there is no resistance and no forgiving, when a move is initiated the tool will make that move, even if the wheel is in the way.

Method of travel:

Motors-Preferably servo over stepper motors are normally used as there travel is more constant and even, however in some cases where precision is not as necessary eg. polishing, the less costly stepper motor can be used. The obvious differences between the two are the quality and the cost. For the most part however servo motors will be used.

The machine may use ball screws or lead screws. The main difference between ball screws and lead screws is again quality. The ball screw is more precise than the lead screw. There is a difference in cost. Although the lead screws are far better in quality than was in the past, it is still desired to use the ball screw. Future improvements in the quality of the lead screws, may allow cost effective use in the future. The desired screw will have zero backlash when used in the machine.

When the ball screw turns, the nut on the screw will traverse the length of thread. This nut is attached to a upper platform and thus the platform will move as screw rotates.

A large motor 61 located within the frame of the machine will rotate the chuck 50 and wheel rim 11 via a spindle or shaft 52 with either a direct or belt driven system. An electrical brake is used to rapidly decelerate the speed. The brake is a series of resistors or capacitors.

Unlike a universal machine that was built for many differing jobs that will need a larger motor to be able to have enough torque to complete any application, machine motor can be large enough to complete a specific job and thus be sized accordingly.

With the use of an inverter that can create three phase power with a single phase input, there will be many options available. So there can now be the possibility of using single phase power to run entire machine. This is an advantage as now machine owners will not require 3 phase power. Also an advantage that power consumption will be lower than most other machines.

Computer 8 operates the CNC (computed numerical control). It is the intelligence in the machine, that makes normally complicated procedures, far simpler. There are various methods that these apparatus can be attached to the machine and the sole difference in all methods are what is comfortable for that particular machine operator. Installed on this system is the program, which will be discussed in further detail in the next few paragraphs.

As the machine can be connected to the internet, it becomes possible to use communication programs like Skype. This can allow the operator of machine to work on machine whilst getting guidance from an outside party, possibly in another country. Video and audio are possible as machine has video camera and headset.

The machine shall have an enclosure over the body that shall disallow objects to fly from within and cause possible injury to those on outside. The probable objects that may be projected is the wheel itself, however other items such as chuck keys etc could also be catapulted.

The door of enclosure may for safety sake have a micro switch that will not allow the chuck to turn on, if door is not closed. The lighting within enclosure shall be bright and extend for the length of the inner chamber so that it will still be possible to see within the back and inside of the wheel. This will enable the operator to read for possible reference, numbers that are stamped within the wheel while it is mounted on chuck.

The tool post has a quick release method by rotating the lever on the top of the unit, a cam is released and the tool can slide out. This makes changing of tools and probes etc. both quick and easy. Angle of tool and positioning to wheel and within machine is also easy to adjust by loosening top nut and aligning or moving the post itself.

The running program can be made up in two different ways, but either way will essentially perform the same functions.

The first way is by building a specific dedicated program that is made from scratch from the ground up for the purpose of doing wheels. There will be no need for another program as this will perform what is needed to function with working on wheels.

The second will be an overlay of an existing off the shelf program. In other words, screens and buttons and functions will be in the form of a conversational overlay that will generate commands to an existing off the shelf program.

In both of the above scenarios there will be an operating system, which could be one of many. To some degree, should the second scenario of an off the shelf program with an overlay be used, then some other parts, other than wheels, may be able to be worked upon. The method of doing such work would be to open the off the shelf machining program and not the overlay. By doing this the machine can in fact still perform as a regular cnc lathe and thus be capable of working on parts other than wheels.

There are many smaller, but significant tasks that the new program will perform. They are digitizing the wheel and then being able to finish the wheel by cutting or polishing.

There are certain events that it may be in the interest of the seller or builder and also the owner or purchaser of this machine that may make it advantageous to have a series of codes, that will either lock, or keep unlocked and functioning, the machines program and many of its abilities.

The program itself is wheel specific and will simplify an otherwise complicated procedure which would require a higher level of training. It will also eliminate many of the mistakes that can be made when doing wheels on an of the shelf program.

Digitizing a wheel is mapping the shape of the top portion or face of a wheel.

The probing or digitizing method of measurement should be accurate within approximately 0.001" (0.03mm). However there is built into the program a smoothing action that will average out readings taken to allow a smoother more even looking cut.

There are various methods this can be done and with various probes or digitizers.

An uncommon method will be to digitize the wheel on a stand with a wheel locator (Wheel Cones) whilst using a digitizing arm. the shape of the face of the wheel is followed while taking readings.

The probe, with the ability of the machines movements within its axis, will move up to the wheel, touch and let computer read where did so on the xz grid. Then it will move back a small amount, move sideways a small set amount, go forward again and take another reading. And so on till end of wheel. This is then stored as a file on the computer 8 and will be available as a map of the face of the wheel rim 11 for future use.

The reason for cutting the face of the wheel is many new wheels have a machined face from the factory and this often gets damaged during normal use. The idea is to be able to re create this same finish so that original look can be restored. If a wheel rim 11 has been previously digitized or probed, then that file can be opened. The cutting of the wheel face is done by following that same pattern of that same wheel that was originally digitized. In following this pattern, one now has the ability to place a tool in the area on the axis grid that will be able to trim or polish the surface of the wheel.

In doing this, with a very light trim, all blemishes can be removed and thus the wheel can have a new appearance. There are other tool types that can be used like polishing wheels.

When the start button is pushed, a user will be prompted to save wheel details in data base.

The data base will give a user various fields for data entry and this will be the operators choice on what to complete. A picture of wheel can now be taken with on board camera. A User will now be prompted to goto start position of wheel, which is the position where a user would want to start cutting the wheel. A user will press the ok button which lets computer know to take that positional reading and save it and then automatically will move the probe away from wheel to a safe position. The computer will now prompt a user to goto the end position, which is where a

user would want the last point of contact for cutting to be. Once at that position a user now hit the ok button which again lets the computer take that positional reading and saves it.

The machine will now automatically retract (Z+) the probe to a safe position .

Then would go toward the start point that was originally saved. As probe touches the start point previously recorded, it stops. Machine now retracts (Z+) probe by an amount that can be changed numerically via the keyboard normally about 0.020".

Now machine would move over (X-) also by a pre set amount and after moving over would again move forward toward wheel and when touches would stop and again take a reading. I would then move out and slowly work its way across wheel towards the position originally recorded as the end.

When probe gets to the end position, it will then move back on the (Z+) until its clear and safe. The probe cycle is now complete.

In saying this there is also a "retract" button on the monitor screens that will give a user the option of allowing the computer to safely retract the tool or probe.

The "PAUSE" button has a purpose and that is when button pressed, it will pause the probe in the away from wheel position. This is so that the wheel can be turned to another position, while the probe is not touching it. The reason for this is that the probe has to follow a straight line from beginning to end of the probe cycle and on some wheels the spokes are curved and wheel has to be turned.

The "FINE, MEDIUM and COARSE" buttons do in fact what they say. The probing can be done in fine, medium or coarse. In the event that there is a lot of detail on a section of a wheel, a user may need to probe on fine. Fine probing is more precise but takes more time, so normally only smaller areas of this are done where needed. The differentiating factor between the three buttons is in fact the distance between probe hits on the surface of the wheel. The distance can be changed numerically on screen with keyboard. One can swop between the buttons whilst in a cycle. In an area of wheel rim 11 that needs fine, this can be done. In an area that can do with coarse or medium, the operator can hit the button and it will automatically change the distance between the probe hits on the surface of the wheel.

The program has built in capabilities that will allow various procedures to take place. Some of these will be cloaked(hidden) and some will be initiated by the operator of machine.

Smoothing action is a method of taking all the points that were probed and creating an average pattern within them. The problem with that is in a in areas of probing thta have tight turns and radiuses, the smoothing will occur there too. This would make the smoothing action detrimental

in that specific case. However what I've done here is that a user can be area specific on where a user want the smoothing to occur.

Last cut memory is a method of going a little deeper in a specific area on a wheel that has already been digitized. It is undesirable to weld on the face of a wheel as it discolors the surface and does not look good on a finished product. Should there be a gouge on the surface that is in an area that is thick enough to cut a slightly deeper area, this can now be done and still cut original depth in areas that cannot go deeper.

Using the "Cut In" "Cut Out" "Cut More" "Cut Less" and whilst the wheel is turning and performing a cut, a user will press these buttons , one at a time, which will move the tool in direction requested, by a user pre entered amount, one click at a time. This will then allow a user to take more or less of certain areas of the wheel.

However doing this may or may not leave fine lines as buttons are pressed. At the end of the cut a user will be prompted with an option if a user want to use same pattern a user just created again. If so smoothing will be done thereon and another cut can be made, but with no lines. There is another way of manually doing this, however wont be as accurate. Whilst a wheel is being cut, a user can manually move the machine by hand with the hand wheels and create the same result. However should a user need to go a bit deeper in another cut, there will be no memory to do this.

Data base is extremely user friendly with as much detail as a user want. As much info on that specific wheel that was saved can be entered when, or after it was digitized. Including a photograph by on board camera.

Next cut adjustments are made after each cut by pressing the relevant buttons in direction desired. This will move the position of tool for next cut as instructed. No numerical positional values have to be entered as would be on a regular production CNC lathe.

Firstly, the file for that particular wheel is loaded. Then check that the data and or picture is the same. Press the "START" button and the computer will prompt a user to set tool to the start position and press OK. Once OK is pressed, the machine will now record that position as the same as when the start position of the probing of that wheel was recorded.

The "DRY RUN" button can be used to see if the file loaded is firstly correct and also to fine tune the positional settings of start location. During a dry run the spindle will not turn so position can

be closely monitored. The direction and speed of travel can be controlled with a the likes of an electronic hand wheel eg. the finger wheel on a computer mouse.

To move that start position, the "cut more/less and in and out buttons arrow style buttons can be used. what it in fact does is loosens up the start position and the resets all values as to how much the operator has shifted such start. This will then allow the operator to cut more or less in certain areas of wheel. These values are normally set after each full pass so one can see where more needs to be cut.

Normally when working on this machined finished face, if there is a gouge on the working area, a problem is created. If the scrape is welded, the weld would normally be seen once the wheel is cut, as it is almost always different in color. If the gouge is in an area that the wheel is thick enough to cut off a little extra, then welding may not be necessary. However the problem that would normally occur is that if a user cut deeper in one part of the wheel, then all other areas will need to be cut to same depth. The computer will now allow a user to use the "in out and more and less buttons" whilst doing a pass. In other words, one can start off doing a normal pass and then while blade is getting toward area of concern, the deeper button can be clicked, one at a time, which will in turn take the blade in the direction requested at the pre entered value for that block. Once finished with that pass a user will be prompted: "does user want to follow the original file path or the new one a user created". Now if a user follow new path the machine will follow said path but with new values as and when a user entered them on previous run.

Another method of doing the same action to eliminate the need for many undesirable welds, will be to graphic part of the program here the map of wheel can be seen on either the cutting or probing screen and pull and drag the line according to where a user would like them to be.

Yet another method will be to combine the manual part of the machine with the CNC part during a CNC cutting cycle. As there are levels within the stack of platforms and axis, there is normally one level on the x and on the z that are controlled only by manual movements. In saying this whilst a run on the cnc is in progress, very gently one can move the manual platform method of traverse in the desired direction. This would create a blending effect whilst cutting deeper in desired areas. This could obviously be done as well between runs but then the desired blending will not occur. While the CNC part of machine is working using the combined x and z axis movements to follow shape of wheel, the operator will have the ability to move all the whole CNC part of machine in and out on the z axis. This will allow one to do a light cut in areas of the wheel where this is desired and also a medium to heavy cut in other parts.

This will enable deeper gouges to be cut out of wheels where this is necessary and in turn not taking excessive amount of metal off of the wheel.

This method of cutting a wheel is far superior than regular off the shelf programs as in a regular CNC program the operator has to continually enter values after every completed movement during the wheel cutting cycle. Should a value be mistyped or incorrectly calculated by operator, the machine could be mistakenly set up in a way that will probably damage the wheel and possibly the machine and operator.

The lathe will have the ability to be able to be used in either the manual mode, or the CNC mode. This would be beneficial to wheel companies as often two lathes are needed to serve this purpose and in this case, one will be sufficient.

The movement described below is that of the apron itself, on top of which is the tool post. It is not in fact the rotation of the spindle.

Whereas some cnc (computer controlled) machines do have the ability to control movement manually with either a dial or jog button, this movement is created by the operator turning a dial, which in turn will supply power to electrical motors that will create movement of tool post.

The problem in using computer or electrically controlled movement for this purpose of manual motion, is that the operator has no personal feel of resistance to the movement of the tool post and a deeper than desired cut can easily be made. In other words should an operator turn dial slightly too much, this movement is created and executed immediately with no forgiving.

On standard manual lathes that are not computer controlled, this movement is created by an operator turning a handle which will in turn create movement of tool post. Resistance is felt by operator thus reducing the risk of an error. Resistance is the key

With this in mind the "automotive wheel combo lathe" will have the ability to be used as a conventional manual machine, as the applicable motors can be turned off and a manual operator controlled method of movement can be used.

When the "MANUAL" button mode is used, the servo motors will move the tool post to a desirable position for manual work and then they would switch off which would allow manual movement of ball screws . This would allow the operator of machine to then manually control the position of tool post, while still being able to turn on the spindle which will in turn spin the wheel.

In doing this, the complete method of a manually controlled machine that has no cnc or servo motor assists is created. Furthermore, at the touch of a button the machine can go back to a cnc machine with the full ability of computer controlled movement. Also due to the fact that this machine has stacked levels of axis as described in beginning of document, there will be certain levels that will only be controlled by manual movement.

The manual mode is for wheels that have suffered some physical damage. It would allow the operator to manually control certain settings on the lathe. These settings would include speed of turret and positioning of the tool post within the x and z axis by a manual movement of a hand wheel without the use of positional electrical motors. An example where this would be used would be on a wheel that needs to be skimmed. This would be necessary when the wheel plate that makes contact with the hub of the motor vehicle may have a burr that needs to be corrected. Also when a wheel is chrome plated this often happens as the chrome may be thicker , or have left some burrs that may cause run out when the wheel spins. There are many instances that will require a manual lathe to correct damage on a wheel

In this case the operator can control the machine in the manual mode (as he would any manual machine). There are other times that a wheelwright(repairer of wheels) would require a manual lathe for the repair, or partial repair of a wheel. This could all be done in the “manual mode”.

The lathe will have the ability to be able to be used in either the manual mode, or the CNC mode. This would be beneficial to wheel companies as often two lathes are needed to serve this purpose and in this case, one will be sufficient.

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On standard manual lathes that are not computer controlled, this movement is created by an operator turning a handle which will in turn create movement of tool post. Resistance is felt by

operator thus reducing the risk of an error. With this in mind the "automotive wheel cnc lathe" will have the ability to be used as a conventional manual machine, as the applicable motors can be turned off and an operator method of movement can be used.

The program is windows compatible and thus can carry out its own functions, but also be able to allow windows operating system to work in conjunction with it. External monitoring of files and system, including video and photography can be achieved.

Downloading and uploading will be allowed by known parties.

With this in mind the above will create various settings wherein many positive features can be created. Some are: Photos of wheels in data base; remote training on machine; video conferencing with included camera; external diagnosing and correction of break downs; and Downloading of Upgrades.

The program will be able to carry out certain functions normally not included in cnc lathe abilities. It will have the ability to create a start and end position of motion for each wheel that is digitized. Before, after and within that movement it will have the ability to perform certain functions. There will be a lead in and out that is preset and can be changed by operator. This is so as to not leave a visible start or end point on the wheel.

It will have the ability to create its own smoothing action that can be can be targeted to a certain part or all of the digitized map of the wheel.

It will have the ability to manually override the program and create movements controlled by operator whilst and during a run in the cutting process of a wheel. This can be used should there be an area on face of wheel that has a possible burr or damage and there is a desire to deepen or withdraw the depth of the movement in that specific area. A memory of last cut is made and operator can either follow the last cut or the original.

Upon a wheel being digitized, it is now possible to take the points that were recorded in that file and create a smoothing action by averaging them out. When a wheel is being probed or digitized, some of the readings may be ever so slightly read in error. There are many possible causes that this may occur. For the most part there is normally still a layer of clear coated paint over wheel. Within this covering there may be slightly high spots due to foreign object such as dust that fell onto wheel while paint was curing. Should the probe have taken a reading at the point where the dust had caused a high point, this reading would appear in the new probed file to be saved. There are many other factors that could cause this problem. Another possibility is when there is a wheel that needs to be turned during a probing cycle, there may a height

difference from one spoke to another. The reason that some wheels need to be turned is that there is no straight line from the probing start point to the end. The desired area of digitizing is the face of the wheel (high areas) and not going into lug holes and low areas of wheel. Remembering that we are only skimming the face of the wheel.

There is no straight path from start to end of digitizing or probing path. In this event the wheel would be turned once pause is activated during the probe cycle, so as to allow the continuation of the straight line for probe to follow.

On some wheels there is a steep incline at the beginning of the cut, as there is also at the end of the cut. This creates a problem as most cutting tools need to be set at an angle to facilitate the direction and positioning of the movement. In other words the angle of tool may allow the first part of wheel to be cut, but cannot move over the last incline on wheel on the path at end of cut. In the past it has been necessary to initiate two separate procedures or cuts to complete wheel.

Also, in the past, the area of contact of the wheel and cutting tool constantly varies during a move as the shape or pattern of the wheel would constantly be varying. This may lead to problems both in the quality and appearance of the end product.

The new machine has a method around this issue. It is in fact a revolving turret or tool post. The angle that is set at the beginning of a procedure will automatically with the aid of the computer to keep an optimal cutting angle at all times.

There is also the possibility of polishing wheels with a buffer or pad. Instead of using a tool with blade, a motorized polishing buff can be mounted in its place. In this event the wheel would still be digitized so as to allow machine to follow that pattern and then polishing could be attained through the cnc machine. What in fact would be happening is while the pattern of the wheel is being followed, a buffing wheel will be spinning and just touching on the surface of the wheel. While this is happening the machine will be turning the wheel, either at a preset high or low speed.

The computer will also allow the tool post (where upon the buffing wheel will be set) to move backward on the "Z" axis to touch on a block of polishing compound, or to be oiled with polishing oil via the serpentine oiler.

While the machine is following the pattern of the wheel as it would be while cutting a wheel. instead of mounting a cutting tool in the tool post, a polishing buff will be mounted instead. This will allow a polished finish to be attained but only on the first flat surface of the wheel. This is finish on many oem wheels and up to now could not be easily duplicated in a used wheel refinishing plant.

Up to now most chuck jaw 51s that were made for wheels have steps in them that will wrap around the lip of wheel so as to fasten the wheel to machine. At times when using a manual (not cnc) lathe, the wheel is mounted with the face facing the chuck so as to be able to get to work on the back or inside of the wheel. This is not always possible as many wheels have a face that is convex and some also have spokes and other hindrances that get in the way of fastening the wheel in a suitable position that will allow the wheel to spin central to the chuck of machine.(See fig? below). The new machine can offset the depth that wheel fits into the jaw 51 with the aid of a set screw that can be adjusted to suite wheel.

The new method off attaching a wheel within jaw 51 that can compensate for the above will be as follows. There will be placed within the jaw 51, at the contact area where face of wheel will be situated, a set screw that can offset the depth that wheel fits into the jaw 51 and thus the angle of the wheel can now be adjusted.

Motion can also be created with the use of hydraulics. This can facilitate with polishing to keep buffer steady. The positive aspects of using hydraulics at times over motors is that it can take more abuse and certain applications do abuse machine more that others. An example of this is polishing . There is most certainly a lot of stress and not to mention dirt that can affect the machine adversely. Should the application of the machine be aimed more at polishing as a n example, then it may make sense to use either all or partly hydraulic means to attain the best level of workmanship.

Much the same as the above polishing, but instead of a buff wheel, a drill will be placed in the tool post. This will allow holes to be drilled at specific pre determined positions in the wheel. An example of this is a BMW wheel will have a different PCD (pitch circle diameter) to that of a Mercedes. The PCD is in fact the bolt holes in wheel to which a bolt is placed through that will attach the wheel to the car.

With this machine, as it has the capabilities of determining positions it will have the possibility of drilling holes at these positions

With a wheel in place on machine and determined central, it would be possible to attach a drilling or milling method to tool post which will facilitate the drilling out of bolt holes at given distances from center of wheel. This would be in place of either the cutting blade or the polishing motor.

The CNC part of the lathe will be able to determine at what distance a drill is from the center. Thus if it is at 50mm from center, the PCD it would be drilling would be 100mm as we are

working on circle diameter. Now there is in place an encoder on the spindle motor (chuck) of the lathe. This normally serves as a means of controlling the rotation and speed of the wheel. It is however very accurate in determining where its position is within a single revolution. The computer control can thus split a revolution into as many quadrants as there are lug holes in a wheel. Holes are drilled in wheel 11 at a position determined by the distance the "X" axis is from the center of wheel 11. The method of actual drilling would be the "Z" axis moving inward with drill and thus boring of hole will occur.

The same cycle will continue but with the wheel being rotated to the next quadrant at which another hole will be drilled.

The above method can either be carried out manually by using the DRO (Digital Read out) or by using the control of the computer.

There are many instances where this machine will improve quality of workmanship, time management and make it a more affordable investment on a whole than it has been in the past with similar machines.

There are a few reasons that one may need to use this machine to complete a wheel repair or refinish. In either event the following steps will be followed:

Mount wheel 11 in jaw 51 of chuck; if wheel 11 is not running central in chuck, then adjust at least one of set screws 73 for positioning of wheel; If wheel is to be cut manually then press manual operation button on display and proceed to cut in manual mode; If wheel has a saved digitized file then proceed to cut wheel in CNC mode; If wheel is to be digitized or probed then press digitize wheel and follow the on screen prompts; after wheel is digitized, load the applicable digitized file for cutting wheel; start wheel cut process in CNC by performing a dry run, while watching following distance of tool to see if all in order before the final cut; after all settings are concluded and ready for cut press start; after this run when wheel stops, visually look at wheel to see where adjustments are necessary, for next cut. Complete this step as necessary until wheel is completed.

The jaw 51 that can adjust the wheel to better centralized position in chuck.

The program and its method in making work to be carried out simpler with less chance of mistakes .

A safer method of doing wheels for both the user of machine, the wheel and the machine itself. This is attained by the physical enclosure around wheel and the workings of actual machine and program. The small foot print with large wheel capabilities.

It is exceptionally hard to get a production lathe that is small and has a large swing. More so with wheels as the sizes have increased considerably over the past decade. As the machine has a small foot print the space rental for the work area is reduced to that of a large machine. Also many existing shops have lathes today that cannot work on the larger wheels.

For the most part there has been no real reason to incorporate the manual and CNC lathe into a single unit. With wheels there is a need for both machines and due to floor area rental and also cost of machine, it makes sense to incorporate both manual and the cnc method.

In the novel machine 10 there is no disconnect between motors to create its manual movement. Also a CNC program can be run at same time as, and in conjunction with the manual part of the machine.

The below description is of a significant reason that CNC and totally manual machines are not combined. Manual is referring to is manual "without servo motor assistance". The reason that the user does not want the manual without motor assistance (i.e. electrical movement) is that we need to be able to feel pressure exerted whilst we are cutting a wheel. If one cannot have this feel, far deeper cuts and mistakes will be made while moving an electrical hand wheel manually that has no feel at all.

On a normal CNC machine, on a regular basis (probably every time machine is switched on) a homing action is needed. This is for the control of machine to know its own location within its axis. Homing occurs when each of the applicable axis movements touch up against a pre determined limit switch and inadvertently creates a home position that the machine will work from. This will aid in tool setting distances and create a uniform and constant environment from which the machine will operate. Now most CNC machines have a manual ability which is essentially just an override of control of machine. This movement is often created by electrical hand wheels. As described in paragraph above, this is not the manual ability that we are seeking as there is no feel for what we are doing. What is wanted is total manual movement created by a source other than the electrical control of machine. We need to manually turn balls crews or gear racks to create this movement. Unfortunately once this is done on a conventional CNC, positions are lost.

In the case of the novel combined manual/CNC machine, homing is not necessary as it is easier to setup the angle of the tool at the start position of the wheel to be cut, and then setting this in the machine control as the start position by pressing a button on the computer screen. This will be set on every wheel as on average, every wheel will be different.

On a normal CNC, if it were to have the manual ability, its own homing position will be lost every time one moves the manual position of the machine. This would create a lot of extra work between every job. It would not be desirable on a day to day CNC machine to have manual capabilities, that are not controlled by the control itself.

On the novel machine, there is no problems with moving the manual position of the machine as there is no homing and setting position of each wheel is done anyway and is a very easy process.

Another advantage in the way that the novel CNC/manual machine is set up is that the CNC and the manual ability of the machine can be operated simultaneously. This is handy when there would be a deep scratch in the wheel and while the CNC program to cut the wheel is running, and with wheel spinning, a slight adjustment in the manual z table can be performed whilst the blade or tool is passing over the scratched area. This would allow minimal metal removal from the wheel as a deeper cut is only performed in the area where it is needed.

When renting space to open shop, a key factor is power into building. This is a limitation in many cases if there is no 3 phase power. It is costly and inconvenient to work around.

This machine can be used on single phase power if necessary and also the electrical consumption is kept to a minimum as all motors etc are geared for the job at hand.

With a conventional lathe production machine, it is always an overkill as at time of manufacture there is no way of them knowing exactly the use of the end user.

It is also an option that part of the machine can be separated at fig 1. 81 upwards and sold in a kit form. This could be attached to almost any lathe. The kit would come complete with fig1.81 and above and will include a separate box with computer and control.

While the invention has been described in its preferred form or embodiment with some degree of particularity, it is understood that this description has been given only by way of example and that numerous changes in the details of construction, fabrication, and use, including the combination and arrangement of parts, may be made without departing from the spirit and scope of the invention.

I claim:

1. A machine for refinishing of repairing of damaged wheel rims comprising: selective operability as a manual lathe, CNC lathe, or combinations thereof; a rotational wheel rim holding spindle; a jaw for holding a wheel rim, said jaw having plurality of angular surface features that further secure said wheel rim; set screws imbedded in said jaw, wherein said set screws extend outward from an interior channel formed in said jaw and are utilized to level a wheel rim held in said jaw; at least two platforms for supporting a tool post; wherein said tool post is movable along at least 2 of an x-axis, a y-axis, and a z-axis.
2. The machine of claim 1 wherein said spindle is rotatable by moving a wheel rim secured thereto.
3. The machine of claim 1 wherein said tool post is rotational about on an axis.
4. The machine of claim 1 wherein said tool post is moved manually, by a computer controlled program, or combinations thereof.
5. The machine of claim 1 further comprising of a large swing about the spindle relative to size of a machine frame.
6. The machine of claim 1 wherein said selective operability is performed while said wheel rim remains in said spindle.

ABSTRACT

The present invention is a novel machine for repairing damaged wheel rims whereby the machine is a combination CNC and manual lathe configured of performing all of the required tasks for repairing damaged wheel rims in a single unit.

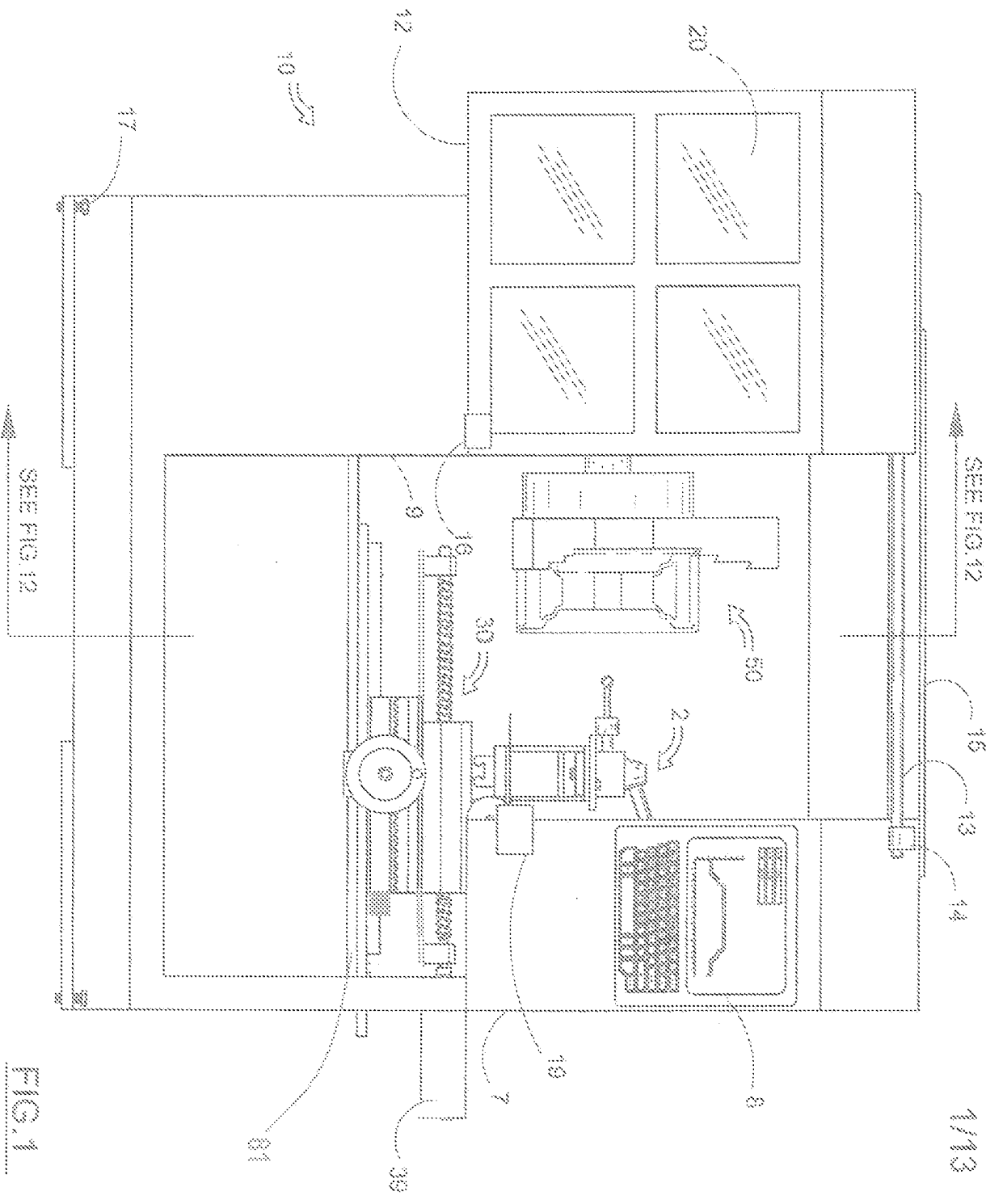


FIG. 1

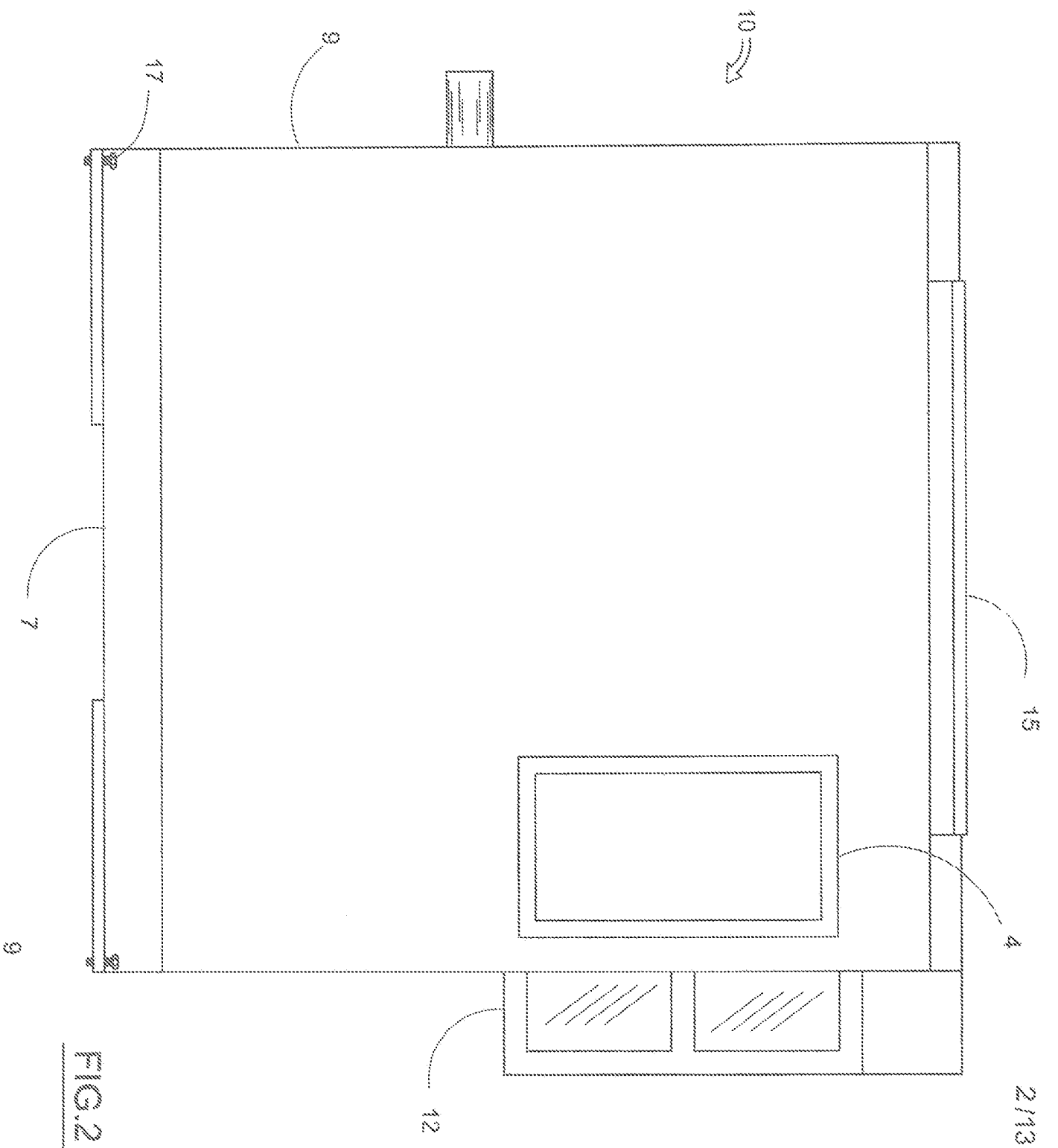


FIG. 2

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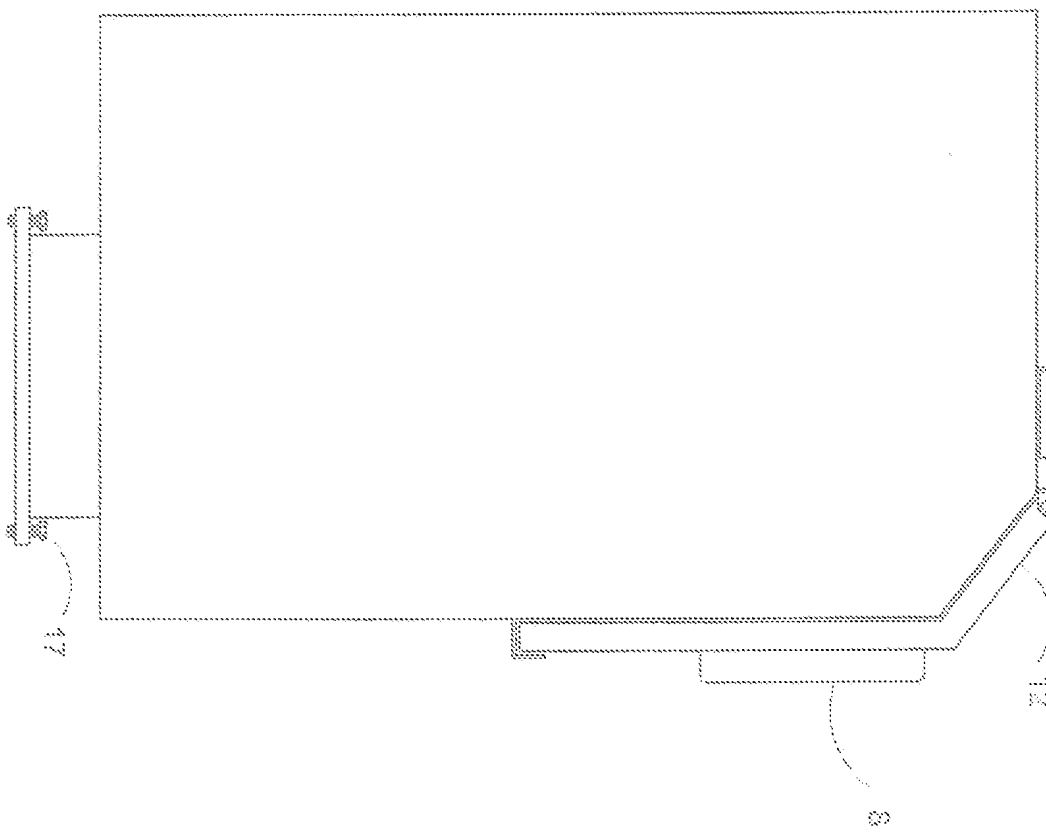


FIG. 3

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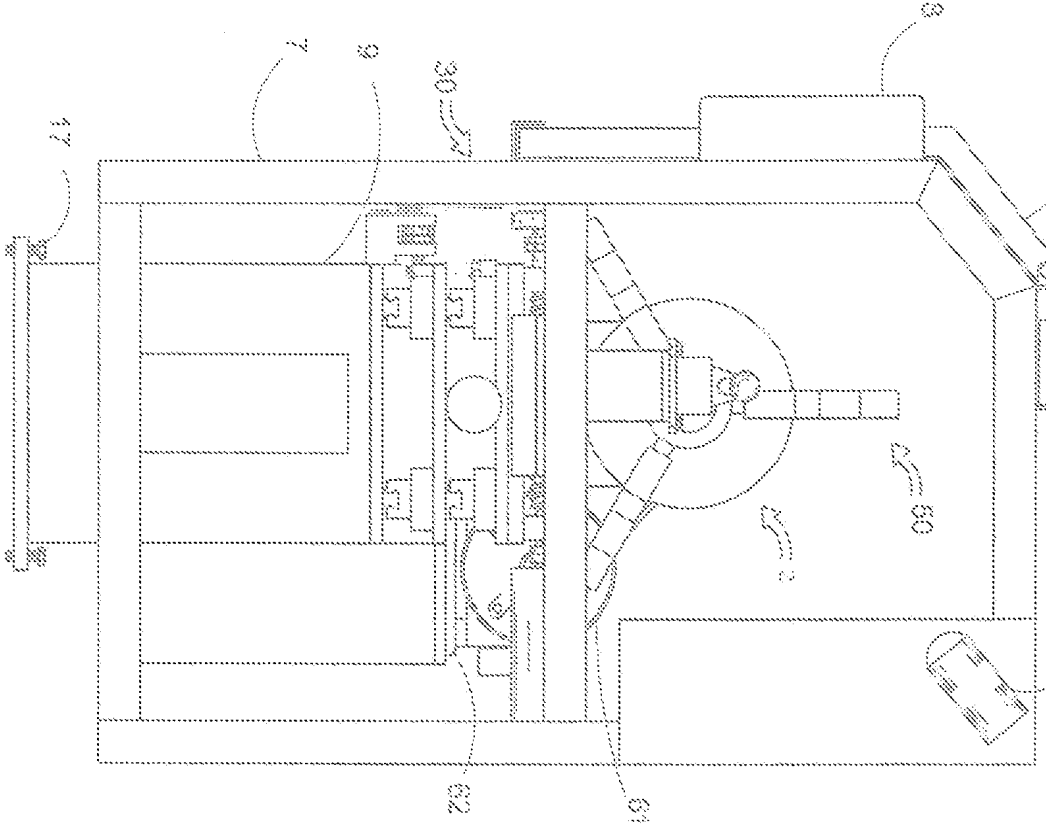


FIG. 4

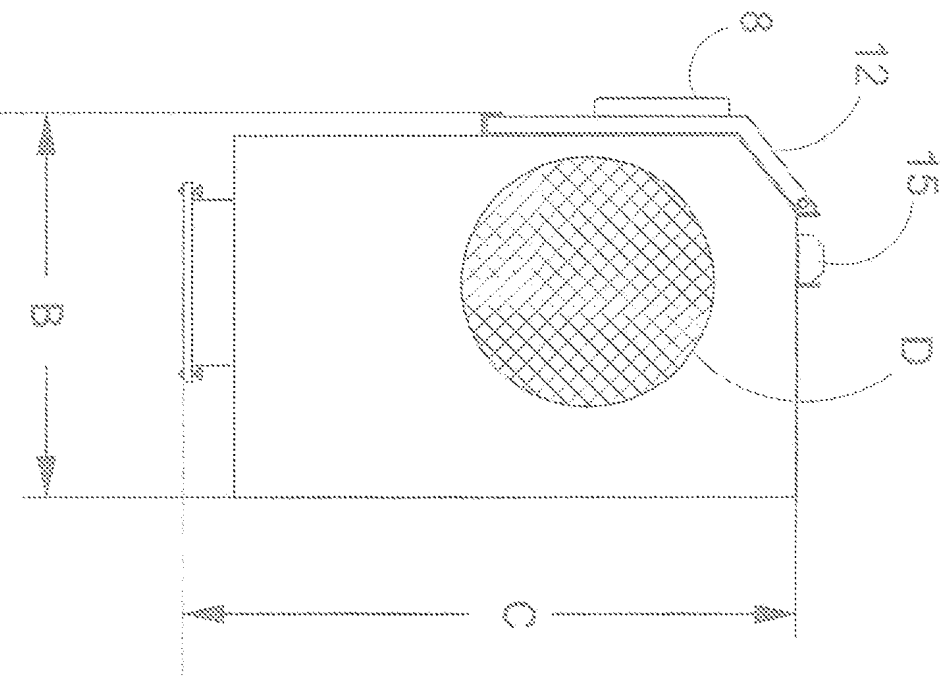
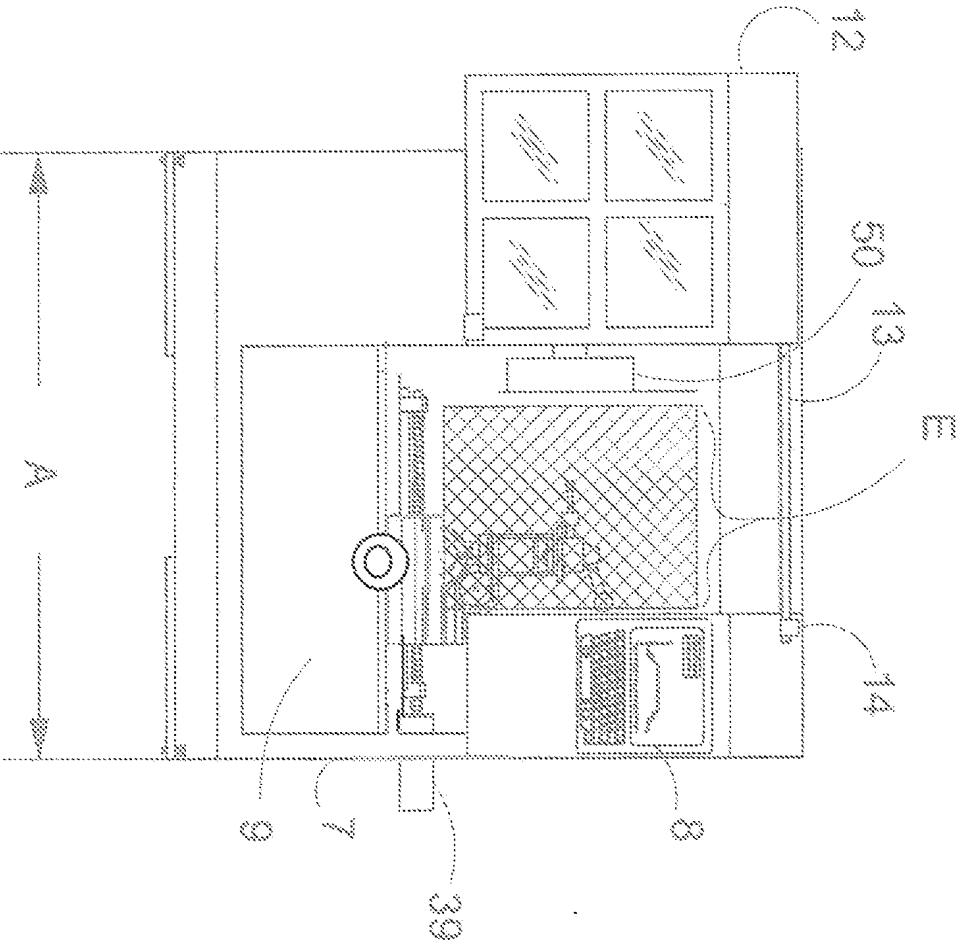


FIG. 5

FIG. 6

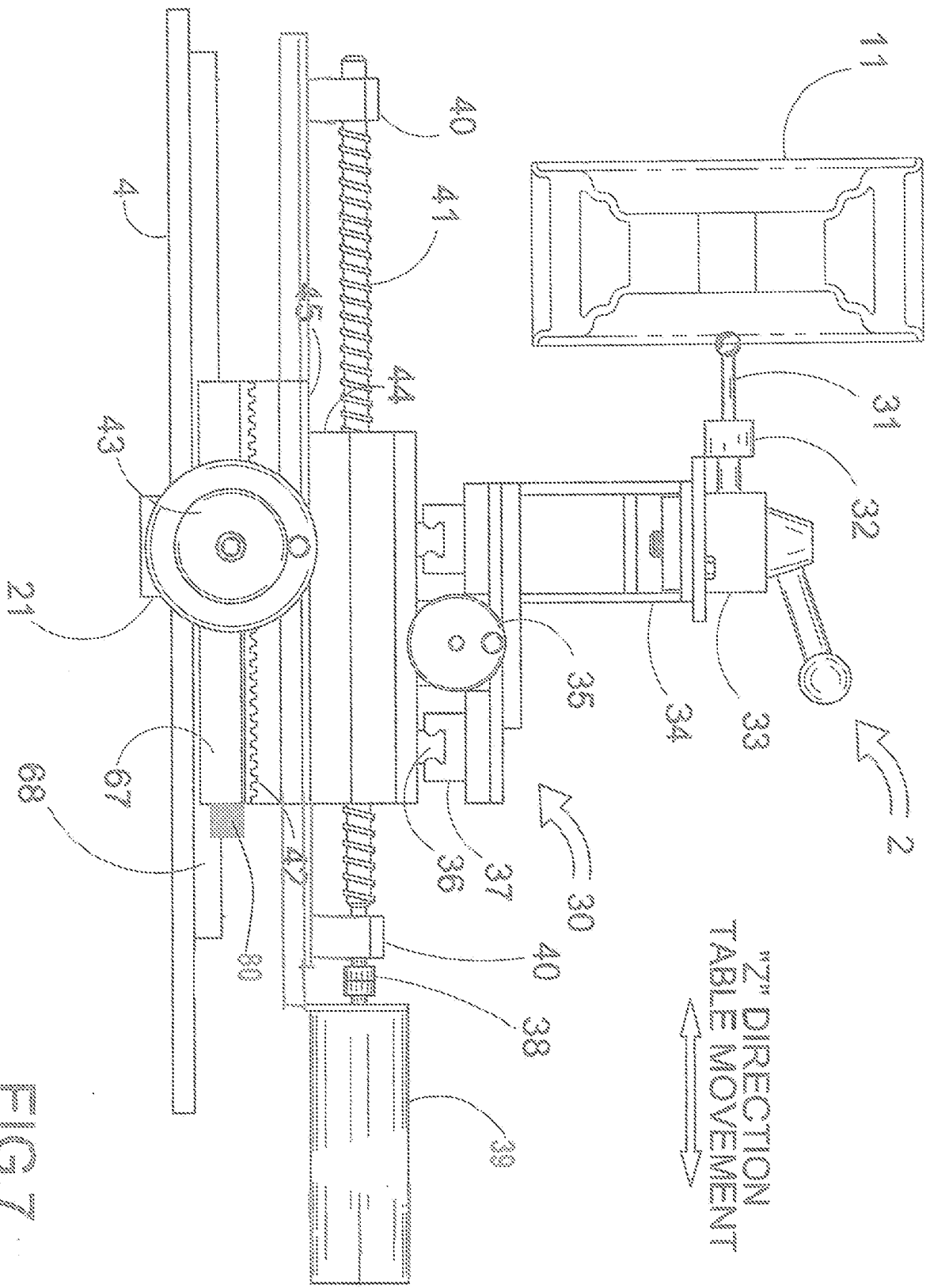


FIG. 7

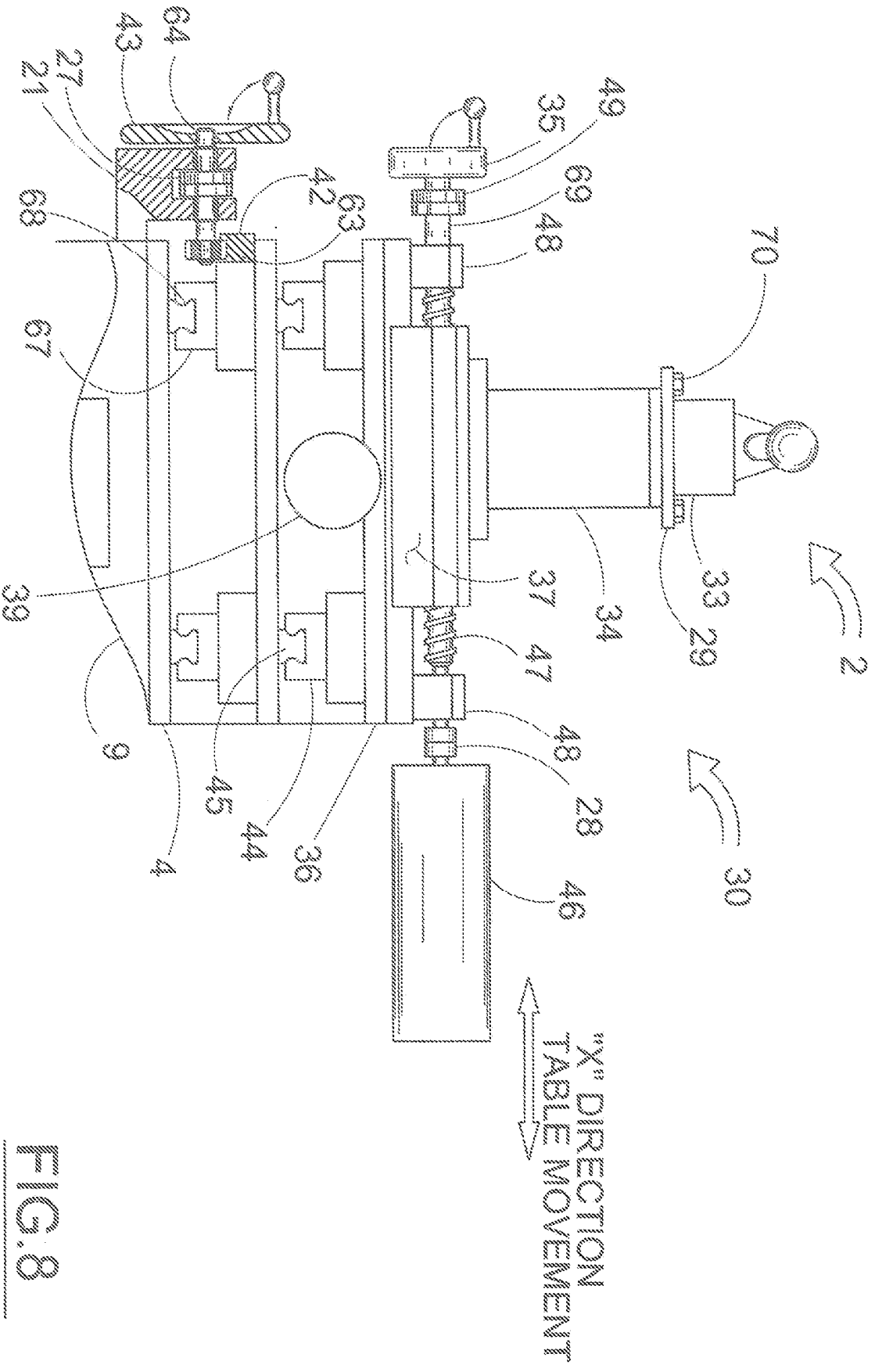


FIG. 8

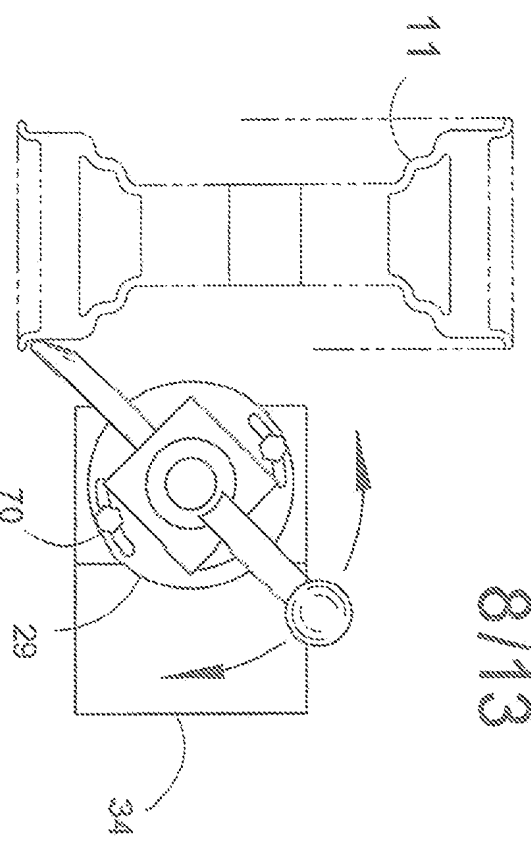


FIG. 10b

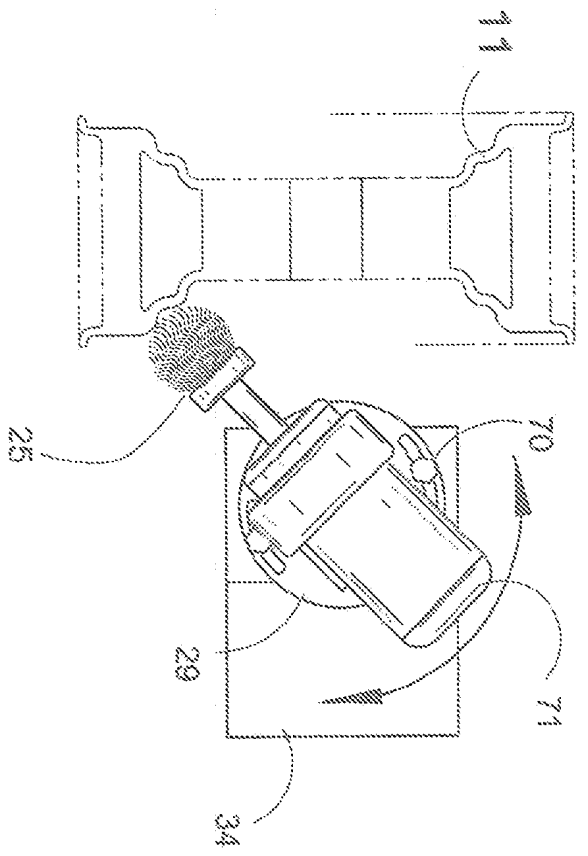


FIG. 10c

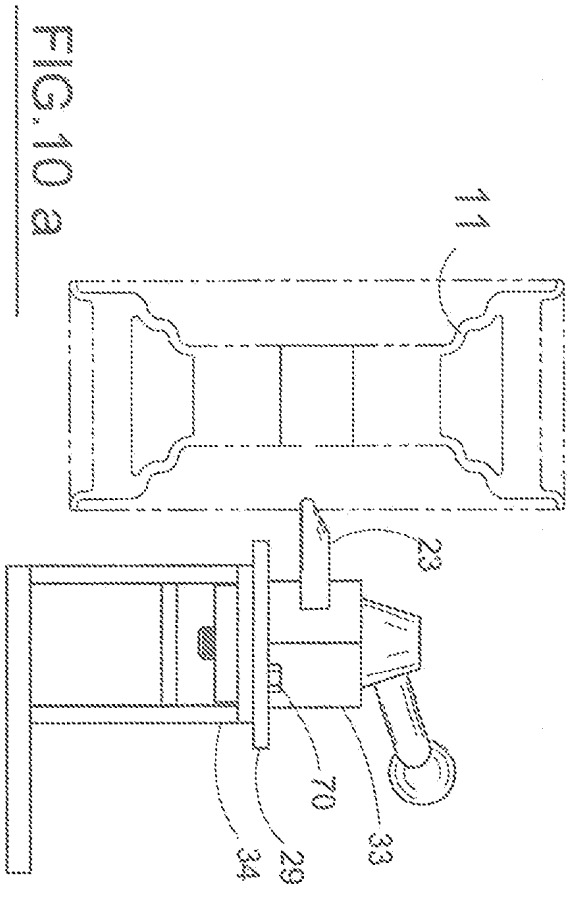


FIG. 10a

FIG. 9c

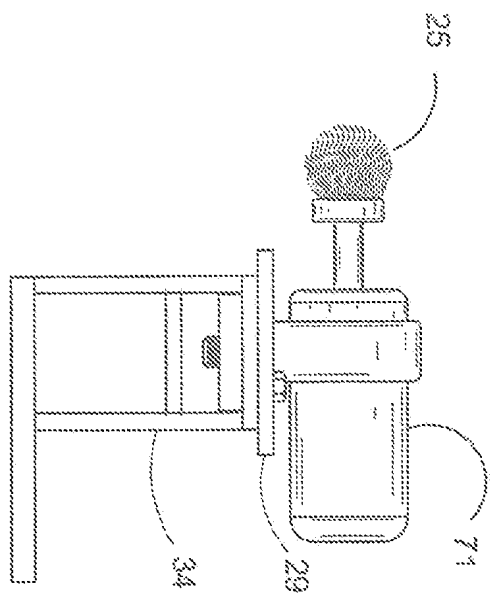
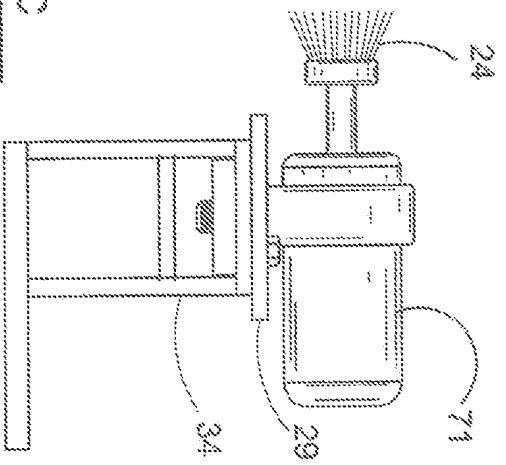


FIG. 9d

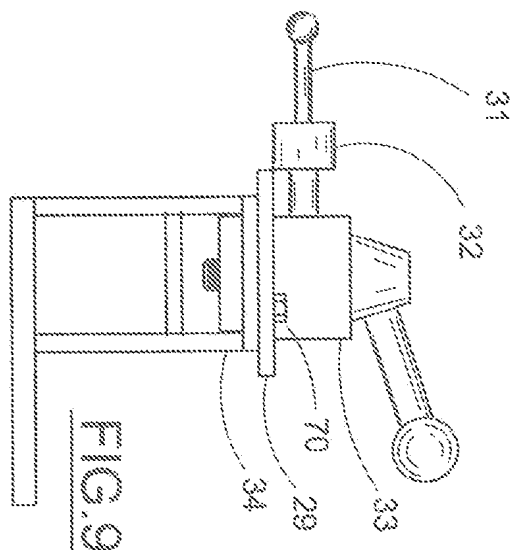


FIG. 9a

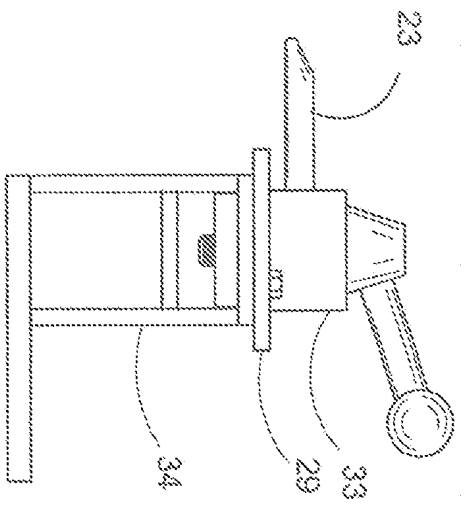


FIG. 9b

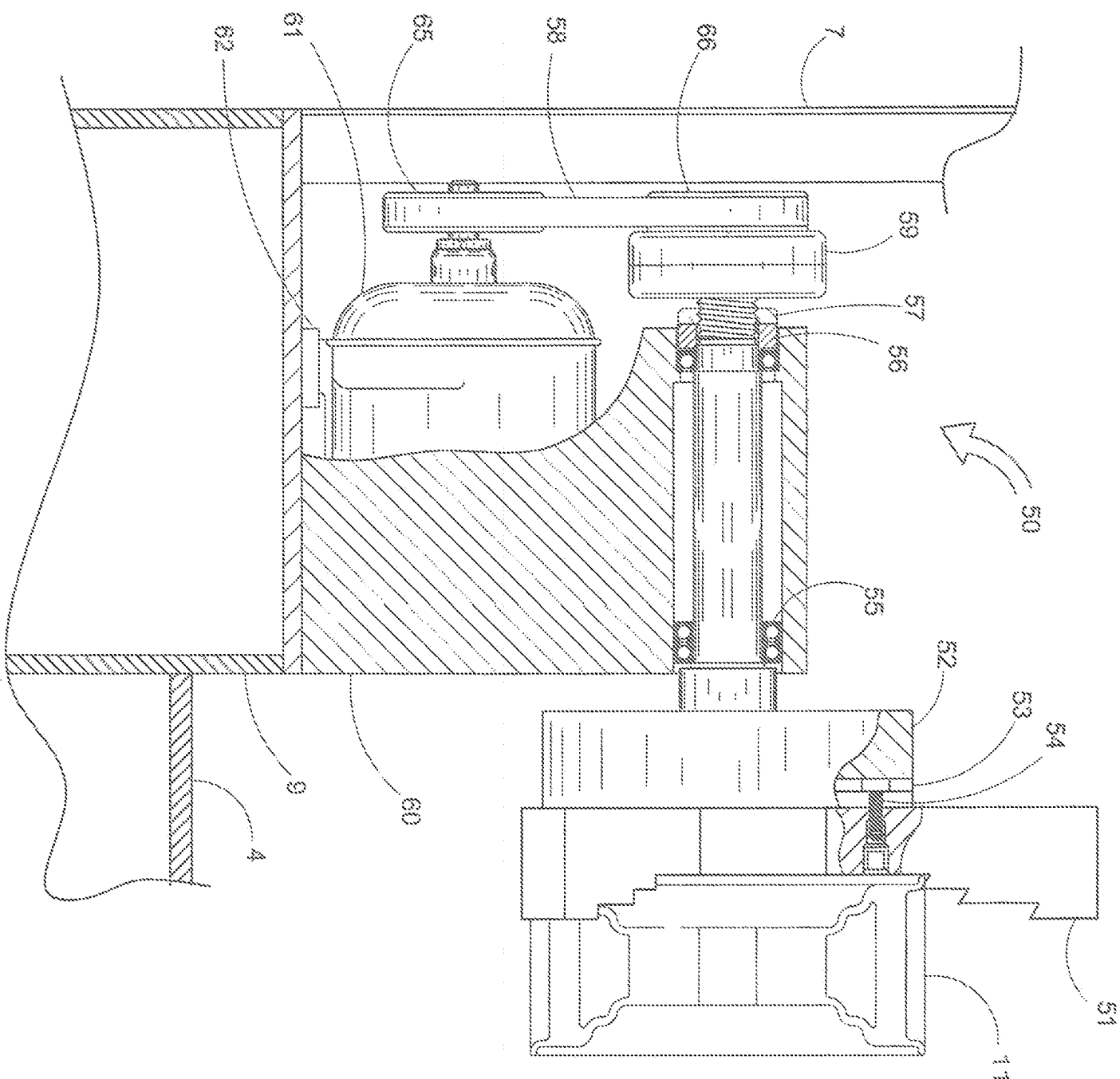
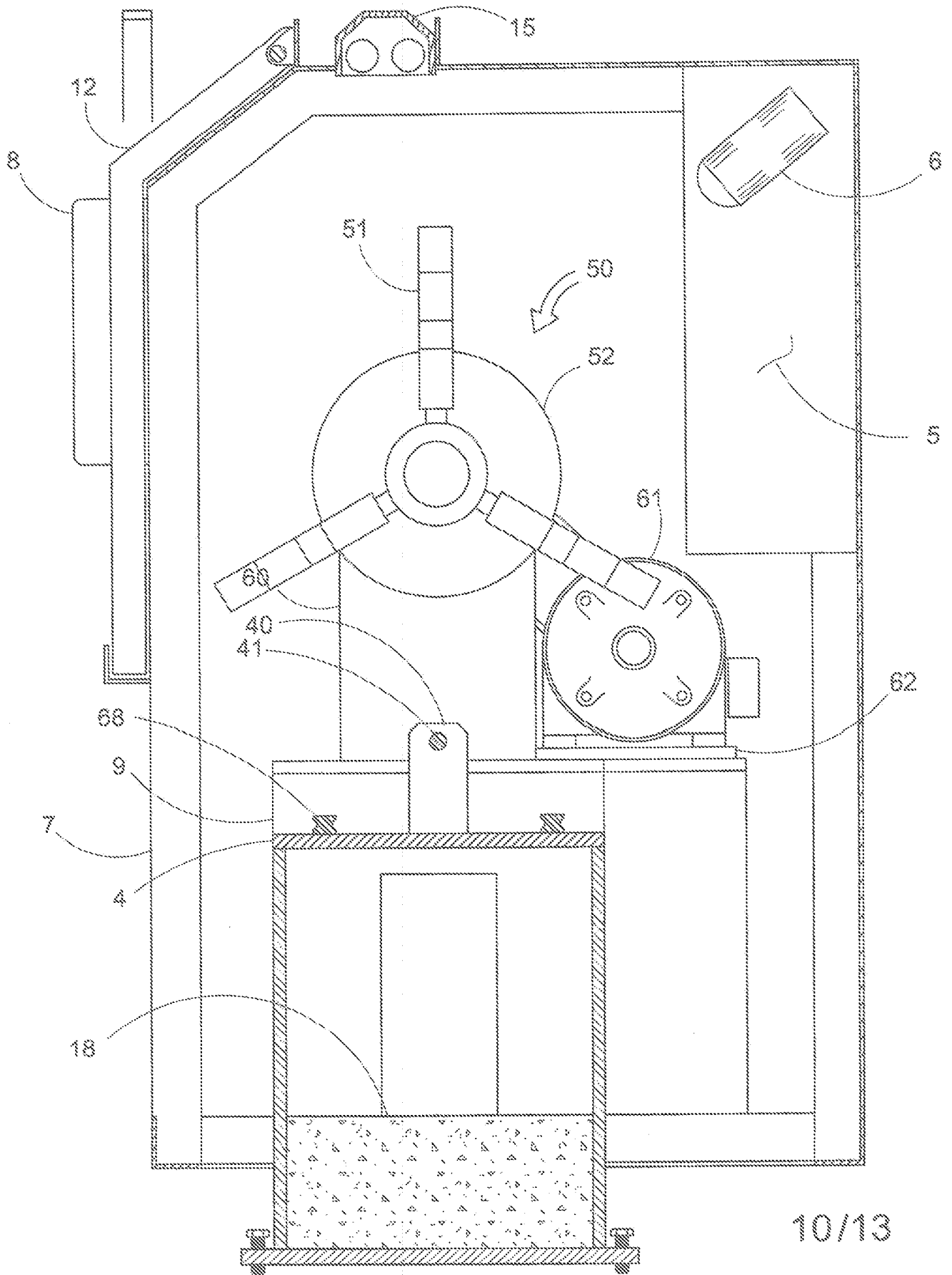


FIG. 11



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SECTION OF FIG.1
FIG.12

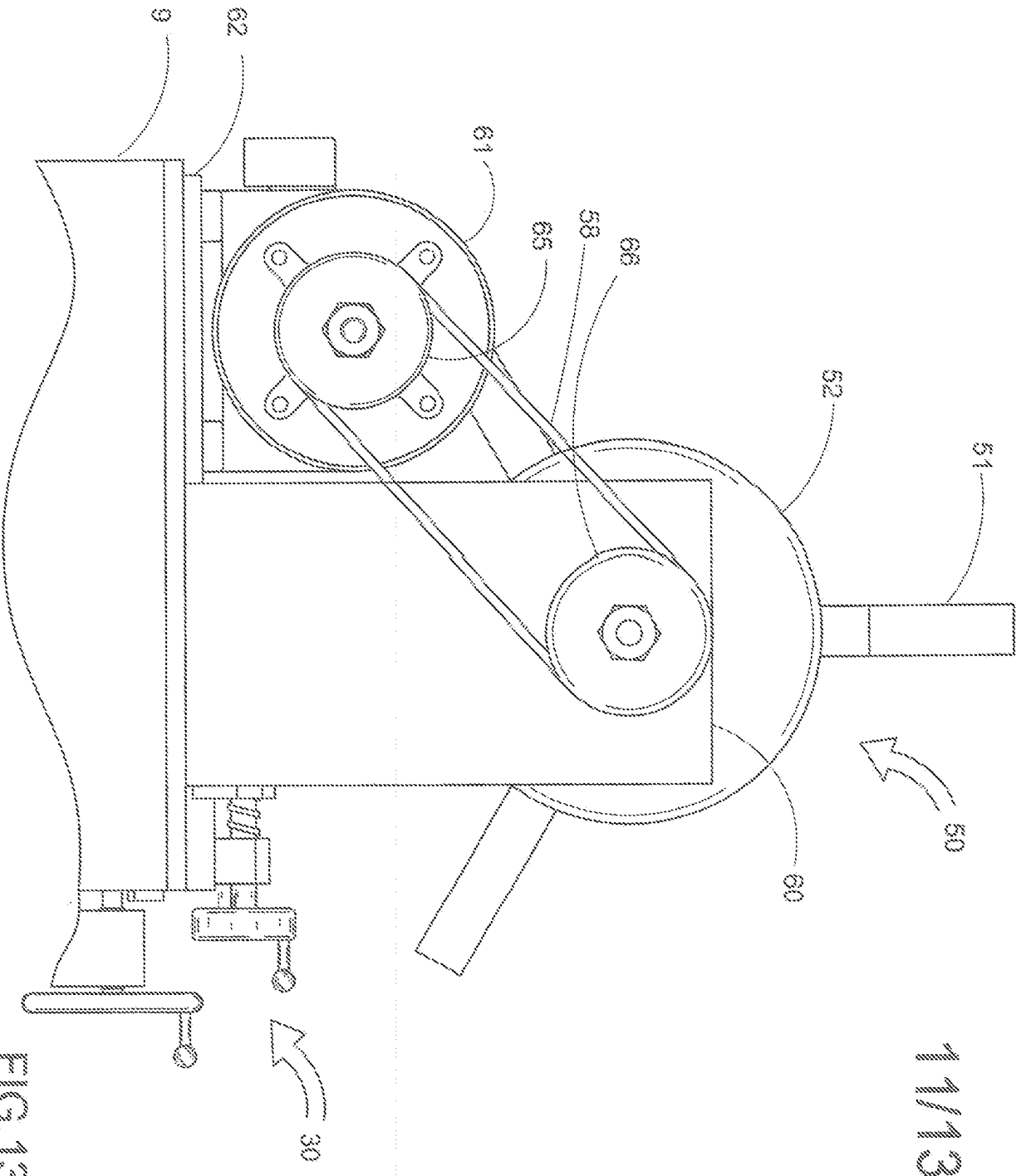


FIG. 13

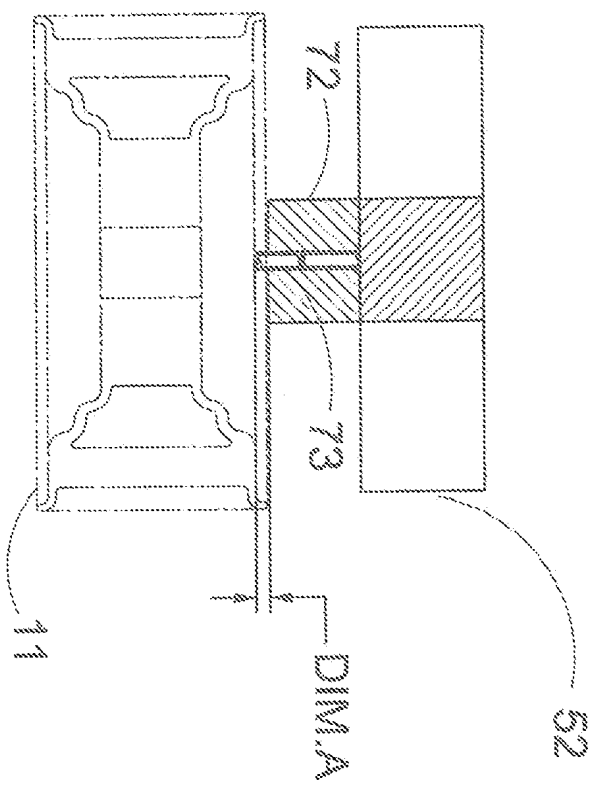


FIG. 16
SECTION C-C
OF FIG. 14

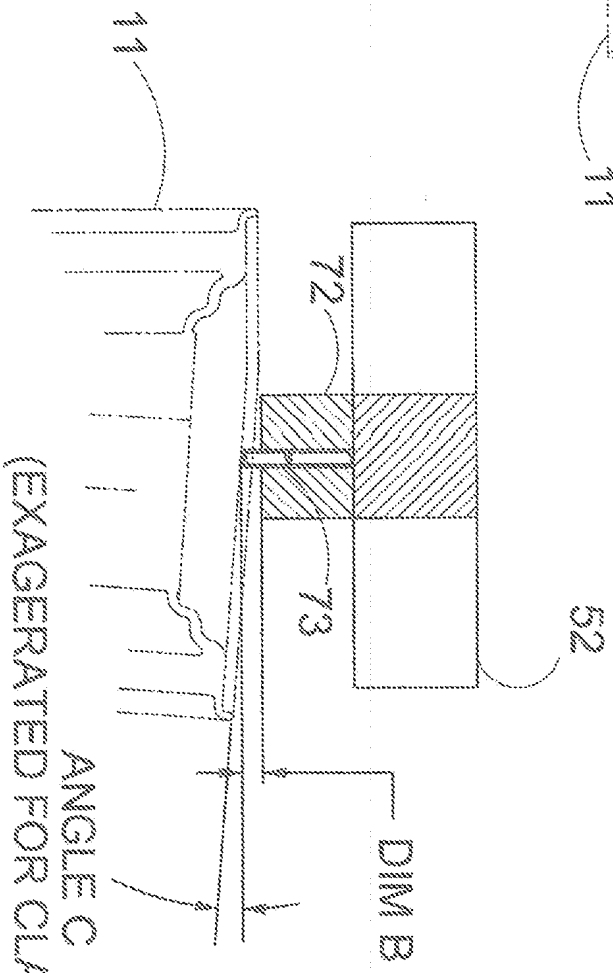
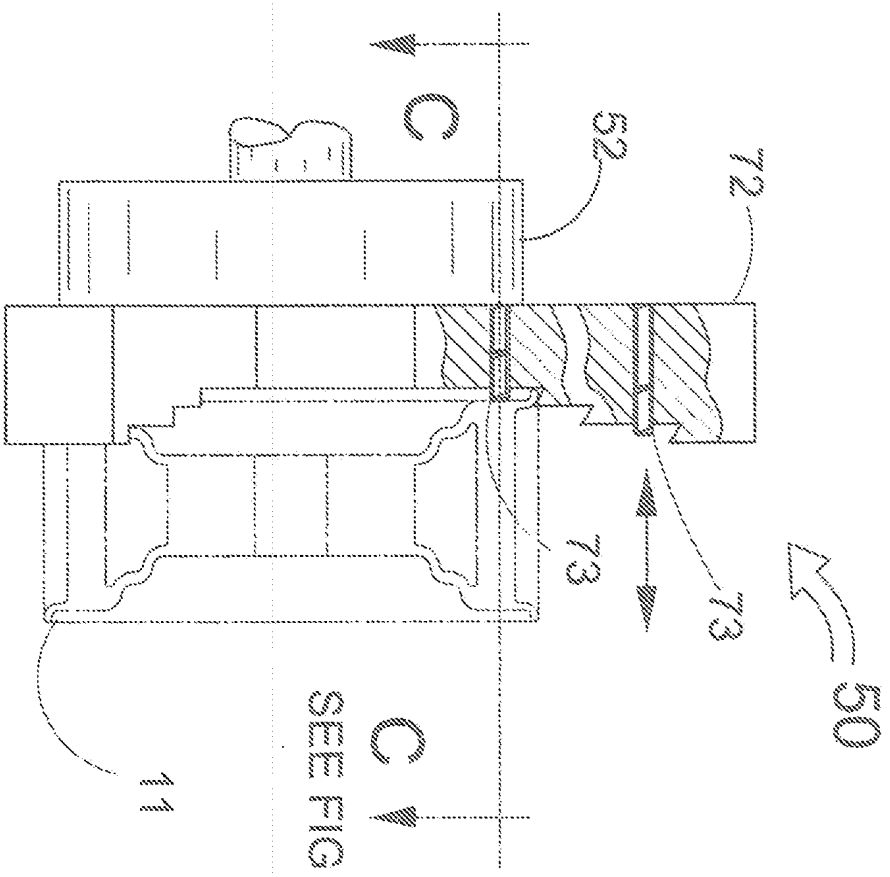


FIG. 16A
SECTION C-C OF FIG. 14



SEE FIG. 16, 16A

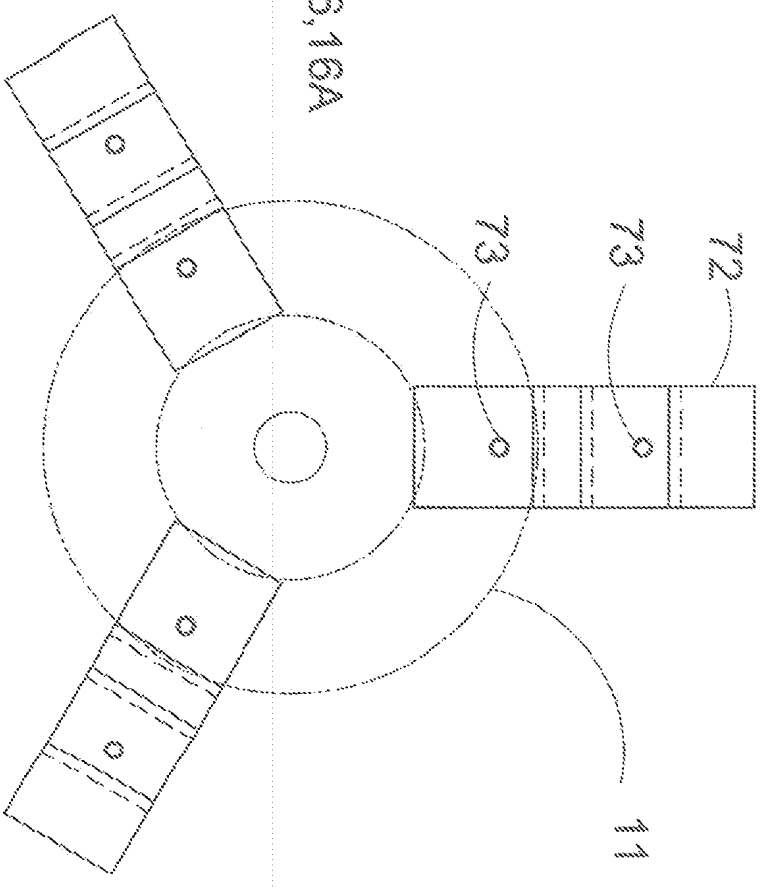


FIG. 14

FIG. 15

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	Automotive wheel CNC (Computed Numerical Control)/ Manual Dual Control Lathe
First Named Inventor/Applicant Name:	Brian Len
Filer:	David Wade Barman
Attorney Docket Number:	Len-004

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	95	95
Utility Search Fee	2111	1	310	310
Utility Examination Fee	2311	1	125	125

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 (\$)				530

Electronic Acknowledgement Receipt

EFS ID:	11066808
Application Number:	13247108
International Application Number:	
Confirmation Number:	3343
Title of Invention:	Automotive wheel CNC (Computed Numerical Control)/ Manual Dual Control Lathe
First Named Inventor/Applicant Name:	Brian Len
Customer Number:	11743
Filer:	David Wade Barman
Filer Authorized By:	
Attorney Docket Number:	Len-004
Receipt Date:	28-SEP-2011
Filing Date:	
Time Stamp:	13:30:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$530
RAM confirmation Number	10442
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Application Data Sheet	LEN-004-ADS.pdf	105294 10e28403228ce65df94587c446344f60a29e4444	no	5
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Information:					
This is not an USPTO supplied ADS fillable form					
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Warnings:					
Information:					
3	Oath or Declaration filed	LEN-004-SignedDEC.pdf	1080329 3a15a428ec2eb491b49c8bf6d6ec25f1bb36527c	no	1
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	Document Description		Start	End	
	Specification		1	23	
	Claims		24	24	
	Abstract		25	25	
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5	Drawings-only black and white line drawings	LEN-004-FIG1.pdf	423060 13ff52344cdde6facd52f2ca362216595fa360b	no	1
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Information:					
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Total Files Size (in bytes):			7856098		
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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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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.		

Secrecy Order 37 CFR 5.2

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant				
Applicant Authority <input checked="" type="radio"/> Inventor		<input type="radio"/> Legal Representative under 35 U.S.C. 117		<input type="radio"/> Party of Interest under 35 U.S.C. 118
If applicant is not an inventor, indicate the authority to file for the patent on behalf of the inventor, the inventor is:				
				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Brian		Len	
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City	Coral Springs	State/Province	FL	Country of Residence
				US
City		Country Of Residence i		
Active Military Service in				
				
Citizenship under 37 CFR 1.41(b)		US		
Mailing Address of Applicant:				
Address 1		9509 NW 38th Street		
Address 2				
City	Coral Springs	State/Province	FL	
Postal Code	33065	Country	US	
If the representative for the inventor is an Organization check here. <input type="checkbox"/>				
Organization Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
Residence Information of the Inventor's Representative:				
Residence Information (Select One) <input type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service				
City		State/Province		Country of Residence
City		Country Of Residence i		
Active Military Service in				
				
Citizenship under 37 CFR 1.41(b)i				
Mailing Address of the Inventor's Representative:				
Address 1				
Address 2				

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention		

City		State/Province	
Postal Code		Country	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	11743		
Name 1		Name 2	
Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			<input type="button" value="Add Email"/> <input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	Automotive wheel CNC (Computed Numerical Control) / Manual Dual Control Lathe		
Attorney Docket Number	Len-004	Small Entity Status Claimed	<input checked="" type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	13	Suggested Figure for Publication (if any)	
Plant Submissions Only:			
Latin Name		Variety Denomination Name	

Publication Information:

<input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)
<input type="checkbox"/> Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention		

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	11743		
Prefix	Given Name	Middle Name	Family Name
<input type="button" value="Remove"/>			
Registration Number			
Prefix	Given Name	Middle Name	Family Name
<input type="button" value="Remove"/>			
Registration Number			

Additional Representative Information blocks may be generated within this form by selecting the **Add** button.

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status	Pending	<input type="button" value="Remove"/>			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
	non provisional of	61387047	2010-09-28		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

<input type="button" value="Remove"/>			
Application Number	Countryi	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			<input type="radio"/> Yes <input type="radio"/> No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention			

If the Assignee is an Organization check here. <input type="checkbox"/>				
Organization Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information:				
Address 1				
Address 2				
City		State/Province		
Country			Postal Code	
Phone Number		Fax Number		
Email Address				
Additional Assignee Data may be generated within this form by selecting the Add button.				

Signature:

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	/David W. Barman/			Date (YYYY-MM-DD)	2011-09-28
First Name	David W.	Last Name	Barman	Registration Number	47225

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Application Number: 13247108

Document Date: 9/28/2011

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