



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/055,094	08/04/2018	David Armas	Armas

CONFIRMATION NO. 4485

64231

CHRISTOPHER J. VANDAM, P.A.
19600 NE 21 Ct.
MIAMI, FL 33179

PUBLICATION NOTICE



OC000000114526066

Title:Automatic Grader Stabilizer

Publication No.US-2020-0040549-A1

Publication Date:02/06/2020

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/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/055,094	01/14/2020	10533300	Armas	4485

64231 7590 12/24/2019
CHRISTOPHER J. VANDAM, P.A.
19600 NE 21 Ct.
MIAMI, FL 33179

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

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

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

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

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the 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):

David Armas, Homestead, 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.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

64231 7590 09/11/2019
CHRISTOPHER J. VANDAM, P.A.
19600 NE 21 Ct.
MIAMI, FL 33179

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

Certificate of Mailing or Transmission

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

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/055,094	08/04/2018	David Armas	Armas	4485

TITLE OF INVENTION: Automatic Grader Stabilizer

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	MICRO	\$250	\$0.00	\$0.00	\$250	12/11/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
HARTMANN, GARY S	3671	172-783000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

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

1. Christopher J. Van Dam, P.A.
2. Chris Vandam
3.

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

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

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

4a. Fees submitted: ☒ Issue Fee ☒ Publication Fee (if required) ☐ Advance Order - # of Copies

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

- ☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No.

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

Authorized Signature Christopher J. Van Dam
Typed or printed name Christopher J. Van Dam

Date 17 OCT 2019
Registration No. 58464

Electronic Patent Application Fee Transmittal				
Application Number:		16055094		
Filing Date:		04-Aug-2018		
Title of Invention:		Automatic Grader Stabilizer		
First Named Inventor/Applicant Name:		David Armas		
Filer:		Christopher James Van Dam		
Attorney Docket Number:		Armas		
Filed as Micro Entity				
Filing Fees for Utility under 35 USC 111(a)				
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:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
UTILITY ISSUE FEE	3501	1	250	250
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				250

Electronic Acknowledgement Receipt	
EFS ID:	37960394
Application Number:	16055094
International Application Number:	
Confirmation Number:	4485
Title of Invention:	Automatic Grader Stabilizer
First Named Inventor/Applicant Name:	David Armas
Customer Number:	64231
Filer:	Christopher James Van Dam
Filer Authorized By:	
Attorney Docket Number:	Armas
Receipt Date:	06-DEC-2019
Filing Date:	04-AUG-2018
Time Stamp:	18:47:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$250
RAM confirmation Number	E2019B6I48131768
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Armas_16055094_85b_Issue_Fees_FINAL_17oct2019.pdf	106557	no	1
			64ca371e9ab3001d7bf65d46b03bef71bd57ddcd		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32313	no	2
			84c01d860366a233a2581bae8c47f2868d6bfe8a		
Warnings:					
Information:					
Total Files Size (in bytes):			138870		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

Applicant: ARMAS

Serial No.: 16/055,094

Title: Automatic Grader Stabilizer

Filing Date: 4 August 2018

Confirmation No. 4485

Examiner: HARTMAN, Gary S.

Date: 31 October 2019

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

AMENDMENT AFTER NOTICE of ALLOWANCE

After the NOTICE of ALLOWANCE mailed 11 September 2019, kindly amend the above-identified application as follows:

1. Amendments to the drawings are submitted herewith for figures 1, 2, 7 and 8. Annotated sheets are provided showing the single element “stop 58” that was inadvertently mis-numbered. Replacement sheets with the correction are also provided. Support for this amendment is found in the specification as originally filed at least at page 17 lines 8-16.
2. No new matter is added by any amendment herein.
3. Applicant hereby re-adopts the Declaration as filed with the initial application.

4. Applicant requests a brief telephonic interview with the Examiner regarding any claim not deemed allowable in light of these amendments and discussion.

Respectfully Submitted,
/Christopher Vandam/
Christopher J. Van Dam
USPTO Reg. No. 58,464
305-446-5200
chris@vandamlaw.com
15165 NW 77 Ave #1001
Miami Lakes, FL 33014

Electronic Acknowledgement Receipt	
EFS ID:	37619224
Application Number:	16055094
International Application Number:	
Confirmation Number:	4485
Title of Invention:	Automatic Grader Stabilizer
First Named Inventor/Applicant Name:	David Armas
Customer Number:	64231
Filer:	Christopher James Van Dam
Filer Authorized By:	
Attorney Docket Number:	Armas
Receipt Date:	31-OCT-2019
Filing Date:	04-AUG-2018
Time Stamp:	13:41:27
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	Drawings-only black and white line drawings	Armas_16055094_ReplacementDrawings_FINAL_31oct2019.pdf	1366382 0990c0c2179d3248f48ecbca68b60b94e7292d8c	no	6

Warnings:

Information:					
2	Amendment after Notice of Allowance (Rule 312)	Armas_16055094_Amendment _After_Allownace_FINAL_31oc t2019.pdf	43420 359a7f6b98c47d8a4f90b067b489bd228d5 45da5	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1409802		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

ANNOTATED SHEET

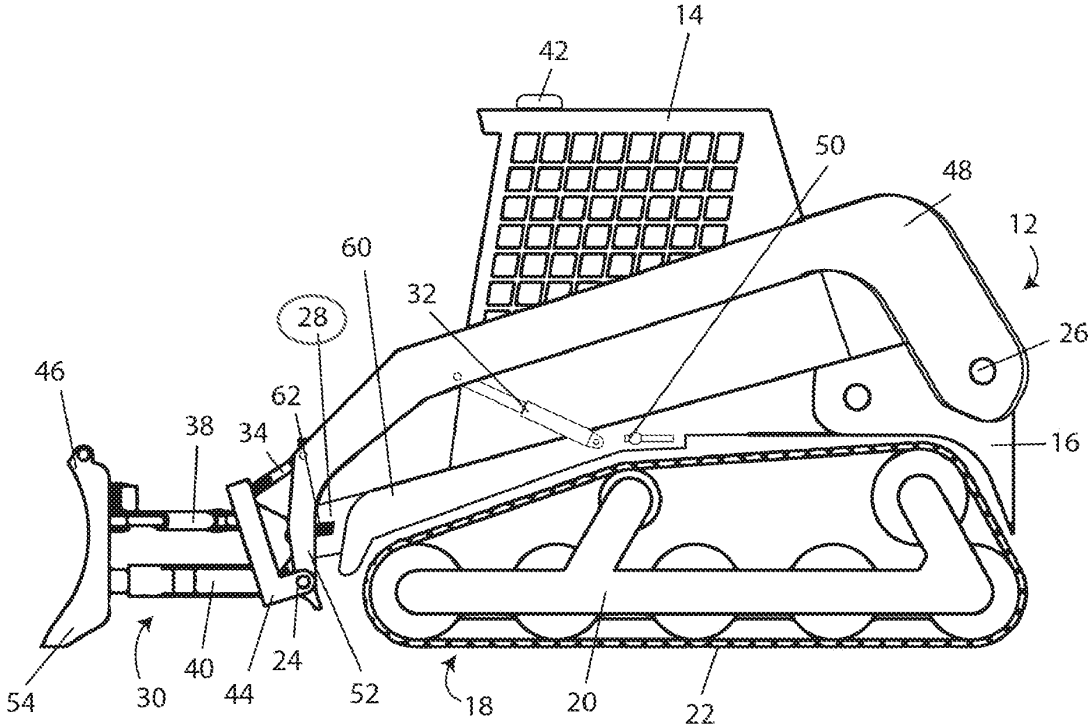


FIG. 1

ANNOTATED SHEET

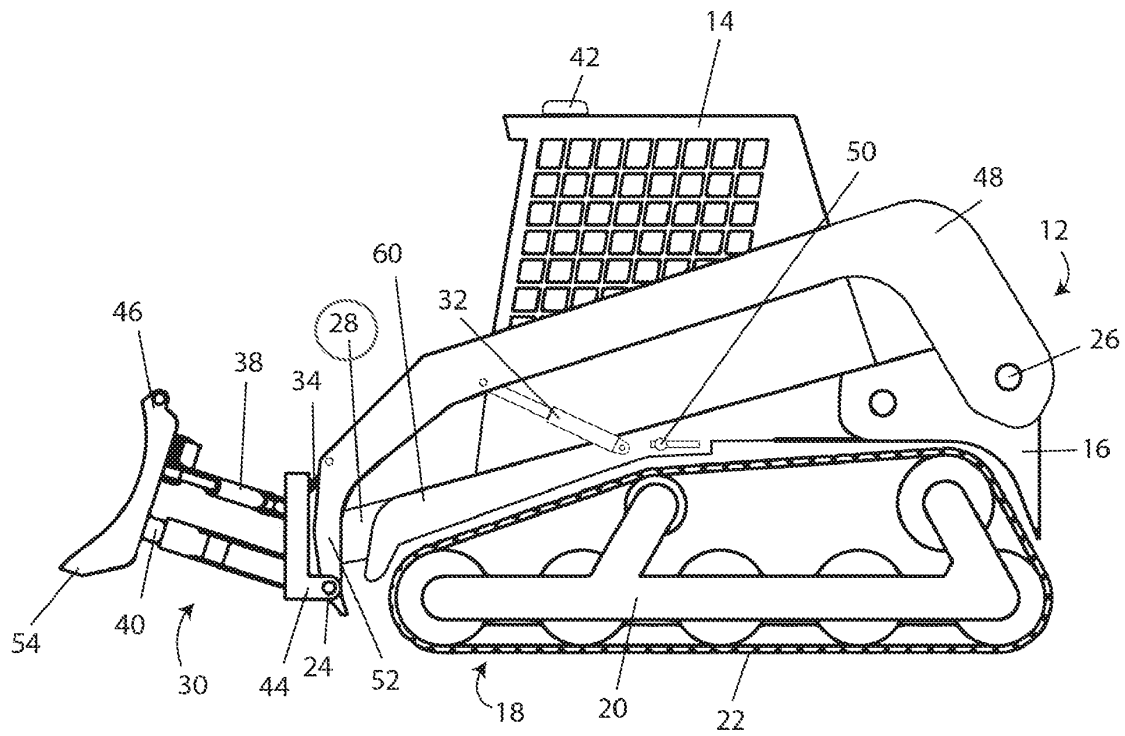


FIG. 2

ANNOTATED SHEET

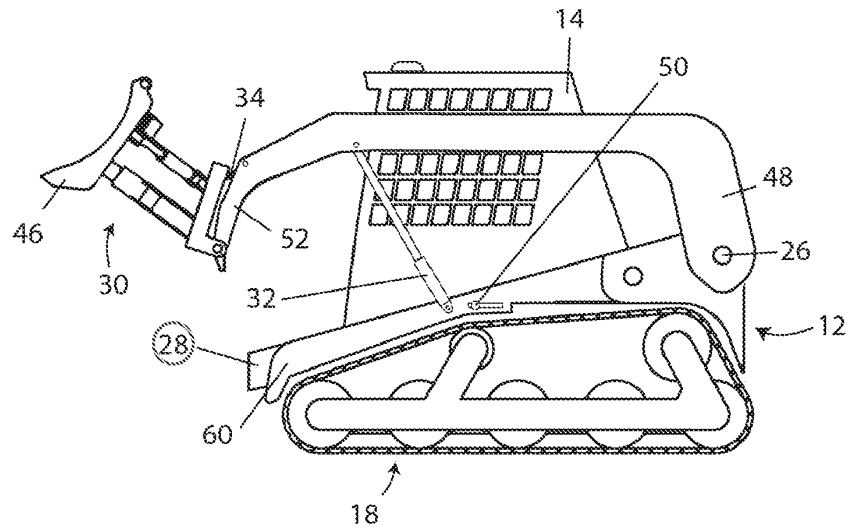


FIG. 7

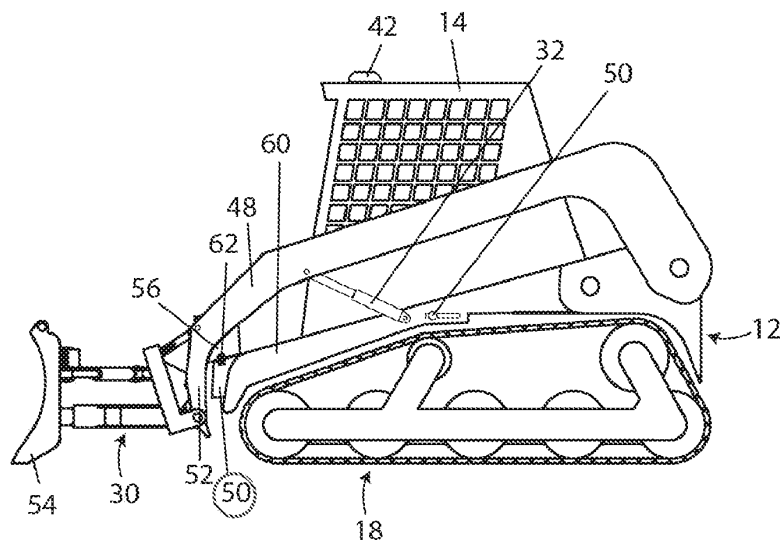


FIG. 8

Replacement Sheet

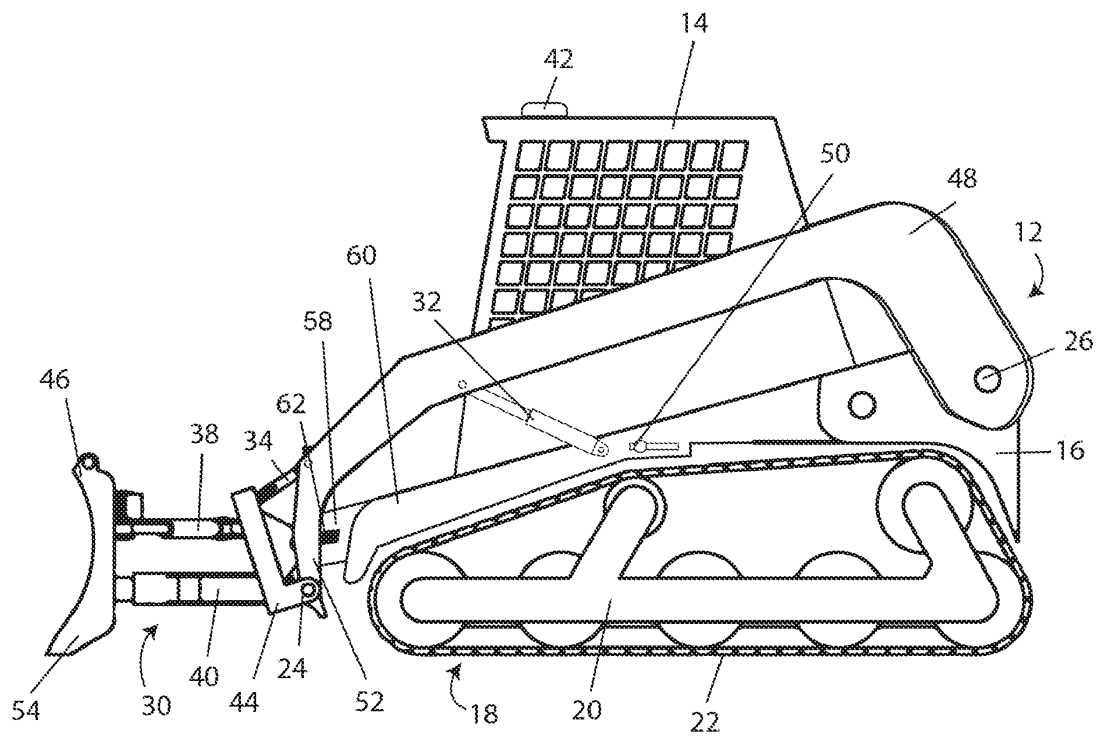


FIG. 1

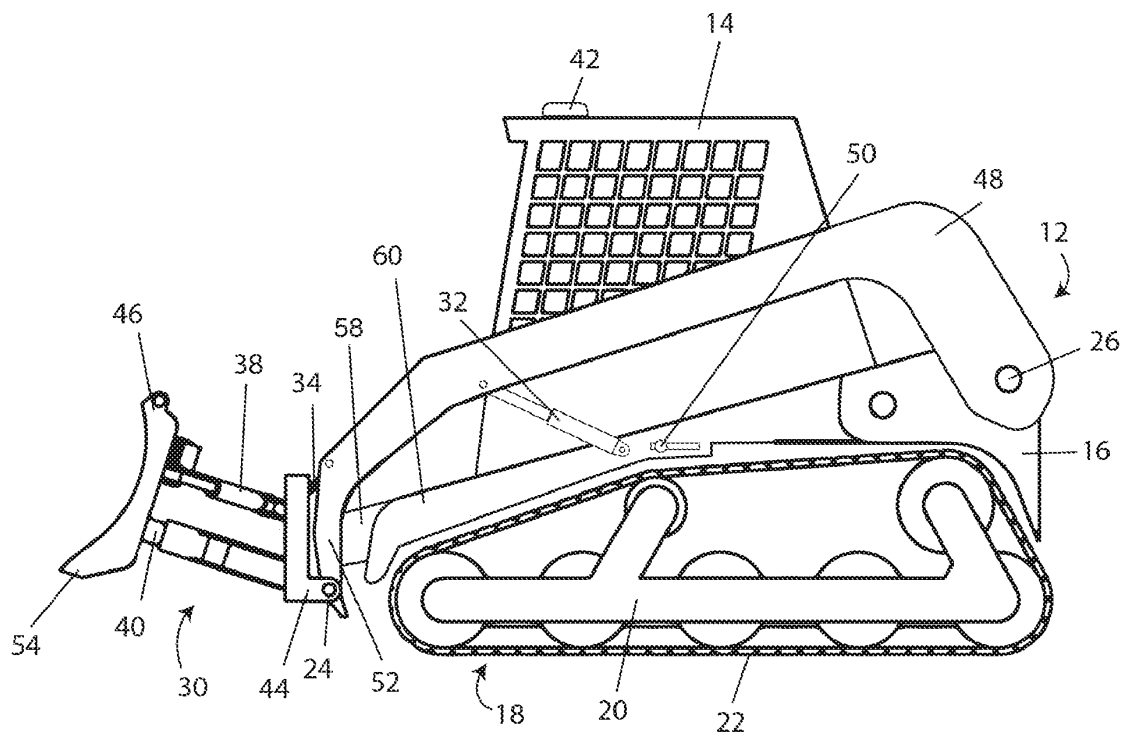


FIG. 2



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

64231 7590 09/11/2019
CHRISTOPHER J. VANDAM, P.A.
19600 NE 21 Ct.
MIAMI, FL 33179

EXAMINER

HARTMANN, GARY S

ART UNIT

PAPER NUMBER

3671

DATE MAILED: 09/11/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/055,094	08/04/2018	David Armas	Armas	4485

TITLE OF INVENTION: Automatic Grader Stabilizer

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	MICRO	\$250	\$0.00	\$0.00	\$250	12/11/2019

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

64231 7590 09/11/2019
CHRISTOPHER J. VANDAM, P.A.
19600 NE 21 Ct.
MIAMI, FL 33179

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

Certificate of Mailing or Transmission

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

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/055,094	08/04/2018	David Armas	Armas	4485

TITLE OF INVENTION: Automatic Grader Stabilizer

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	MICRO	\$250	\$0.00	\$0.00	\$250	12/11/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
HARTMANN, GARY S	3671	172-783000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

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

1 _____

2 _____

3 _____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

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

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

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/055,094	08/04/2018	David Armas	Armas	4485
64231	7590	09/11/2019	EXAMINER	
CHRISTOPHER J. VANDAM, P.A.			HARTMANN, GARY S	
19600 NE 21 Ct.				
MIAMI, FL 33179			ART UNIT	PAPER NUMBER
			3671	
DATE MAILED: 09/11/2019				

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/055,094	Applicant(s) Armas, David	
	Examiner GARY S HARTMANN	Art Unit 3671	AIA (FITF) Status Yes

-- 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 _____.
☐ 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 1-4 . 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/pph/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)

1. ☒ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/GARY S HARTMANN/ Primary Examiner, Art Unit 3671	
--	--

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: while controlling hydraulic lifts and blades are known, the prior art lacks teaching for having provided the stop with the steps of positioning and preventing in the manner claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GARY S HARTMANN whose telephone number is (571)272-6989. The examiner can normally be reached on 11-7:30.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Will can be reached on 571272-6998. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GARY S. HARTMANN
Primary Examiner
Art Unit 3671

/GARY S HARTMANN/
Primary Examiner, Art Unit 3671

<i>Notice of References Cited</i>	Application/Control No. 16/055,094		Applicant(s)/Patent Under Reexamination Armas, David	
	Examiner GARY S HARTMANN		Art Unit 3671	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-8118111-B2	02-2012	Armas; David	E02F3/3414	172/779
*	B	US-6988866-B2	01-2006	Friedland; Kenneth R.	B66F9/12	37/405
*	C	US-5435117-A	07-1995	Eggena; Dean A.	A01D34/27	56/10.2D
*	D	US-5127172-A	07-1992	Lund; Kenneth	E02F3/815	37/403
*	E	US-4189010-A	02-1980	Meisel, Jr.; Thomas C.	E02F3/7613	172/822
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 16/055,094	Applicant(s)/Patent Under Reexamination Armas, David
	Examiner GARY S HARTMANN	Art Unit 3671

CPC - Searched*		
Symbol	Date	Examiner
E02F 3/844, 962	09/05/2019	GH

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
172	779, 812, 822	09/05/2019	GH

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

Search Notes		
Search Notes	Date	Examiner
Inventor Search	09/05/2019	GH
(skidsteer (skid adj steer)) same blade same (pivot\$4 grade stop)	09/05/2019	GH
back and forward cite all tagged documents	09/06/2019	GH

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
172	812	09/06/2019	GH

--	--

Issue Classification 	Application/Control No. 16/055,094	Applicant(s)/Patent Under Reexamination Armas, David
	Examiner GARY S HARTMANN	Art Unit 3671

CPC						
Symbol					Type	Version
E02F		3		8157	F	2013-01-01
E02F		3		7618	I	2013-01-01
E02F		3		3414	I	2013-01-01
E02F		3		962	I	2013-01-01
E02F		3		844	I	2013-01-01

CPC Combination Sets					
Symbol			Type	Set	Ranking

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	4	
/GARY S HARTMANN/ Primary Examiner, Art Unit 3671	06 September 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1, 7

Issue Classification 	Application/Control No. 16/055,094	Applicant(s)/Patent Under Reexamination Armas, David
	Examiner GARY S HARTMANN	Art Unit 3671

INTERNATIONAL CLASSIFICATION			
CLAIMED			
E02F		3	84

NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
172	812

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	4	
/GARY S HARTMANN/ Primary Examiner, Art Unit 3671	06 September 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1, 7

Issue Classification 	Application/Control No. 16/055,094	Applicant(s)/Patent Under Reexamination Armas, David
	Examiner GARY S HARTMANN	Art Unit 3671

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 4	
/GARY S HARTMANN/ Primary Examiner, Art Unit 3671 (Primary Examiner) _____ (Date) 06 September 2019		O.G. Print Claim(s) 1	O.G. Print Figure 1, 7



UNITED STATES PATENT AND TRADEMARK OFFICE

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

BIB DATA SHEET

CONFIRMATION NO. 4485

SERIAL NUMBER 16/055,094	FILING or 371(c) DATE 08/04/2018 RULE	CLASS 172	GROUP ART UNIT 3671	ATTORNEY DOCKET NO. Armas	
APPLICANTS INVENTORS David Armas, Homestead, FL; ** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** * MICRO ENTITY ** 08/22/2018					
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /GARY S HARTMANN/ Acknowledged Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY FL	SHEETS DRAWINGS 4	TOTAL CLAIMS 4	INDEPENDENT CLAIMS 1
ADDRESS CHRISTOPHER J. VANDAM, P.A. 19600 NE 21 Ct. MIAMI, FL 33179 UNITED STATES					
TITLE Automatic Grader Stabilizer					
FILING FEE RECEIVED 430	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/055,094				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	75			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	165			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	190			
TOTAL CLAIMS (37 CFR 1.16(i))	4	minus 20 = *				x 25 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *				x 115 =	0.00			
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).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	430			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/055,094	08/04/2018	3671	430	Armas	4	1

CONFIRMATION NO. 4485

UPDATED FILING RECEIPT



0000000102097288

64231

CHRISTOPHER J. VANDAM, P.A.

19600 NE 21 Ct.

MIAMI, FL 33179

Date Mailed: 09/06/2018

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**

Inventor(s)

David Armas, Homestead, FL;

Applicant(s)

David Armas, Homestead, FL;

Power of Attorney: The patent practitioners associated with Customer Number 64231

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 08/22/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/055,094**

Projected Publication Date: 02/06/2020

Non-Publication Request: No

Early Publication Request: No

**** MICRO ENTITY ****

Title

Automatic Grader Stabilizer

Preliminary Class

172

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

1 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2
3 Applicant: ARMAS, David

4 Serial No.: 16/055,094

5 Title: Automatic Grader Stabilizer

6 Confirmation No.: 4485

7 Examiner:

8 Filing Date: 4 August 2018

9 Group Art Unit:

10
11 AMENDMENT IN RESPONSE TO

12 NOTICE TO FILE CORRECTED APPLICATION PAPERS

13
14 Date: 4 September 2018

15 Mail Stop Amendment

16 Hon. Commissioner for Patents

17 P.O. Box 1450

18 Alexandria, VA 22313-1450

19
20 Sir:

1 Responsive to the NOTICE TO FILE CORRECTED APPLICATION

2 PAPERS mailed 22 August 2018, Applicant now submits:

3 1.Replacement drawings for all sheets of drawings
4 filed with the initial application are supplied
5 herewith. The changes include formalizing the
6 drawings, removing stray marks, integrating
7 amendments as noted in figs 3-6 as originally filed
8 and removing the parts index.

9 2.No new matter has been included in this amendment.
10

11 Respectfully Submitted,

12 /Christopher Vandam/
13 Christopher J. Van Dam
14 USPTO Reg. No. 58,464
15 305-446-5200
16 chris@vandamlaw.com
17 7855 NW 12th St. # 202
18 Miami, FL 33126

Replacement Sheet

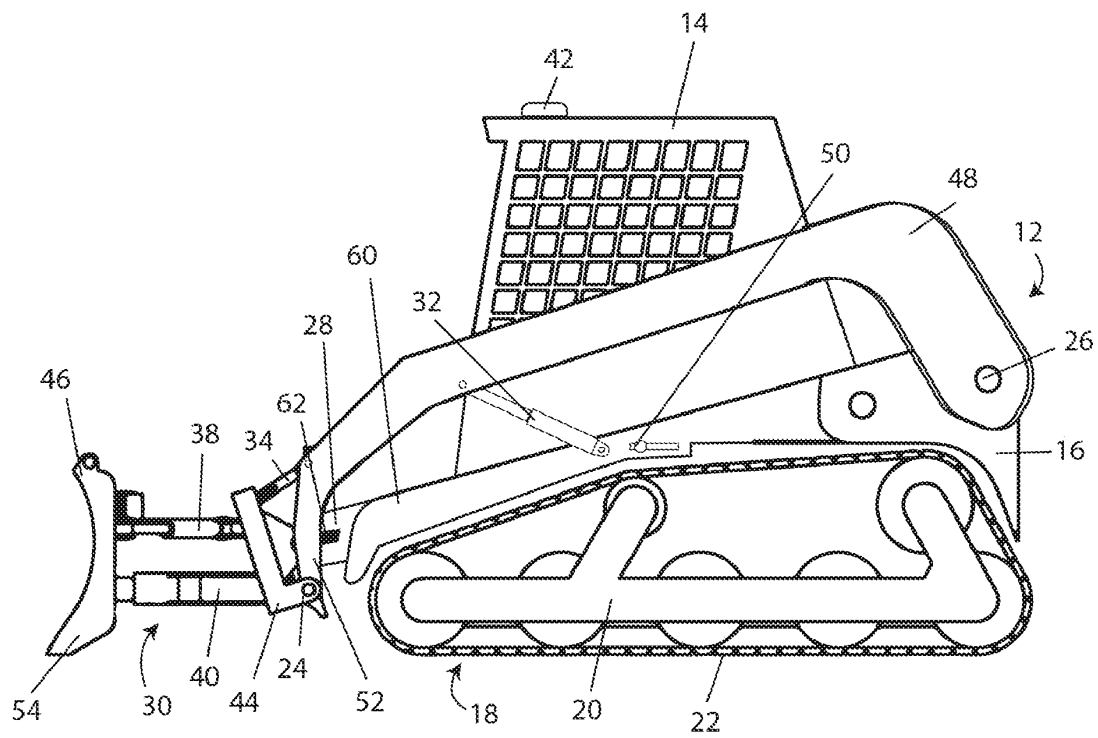


FIG. 1

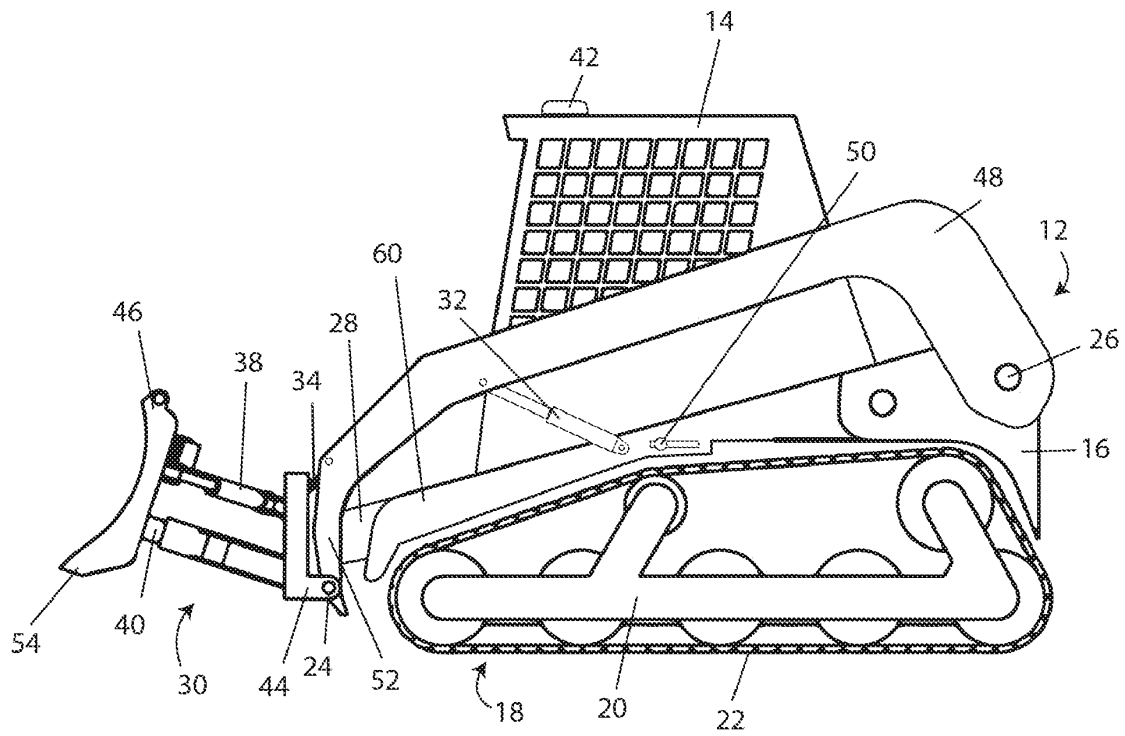


FIG. 2

Replacement Sheet

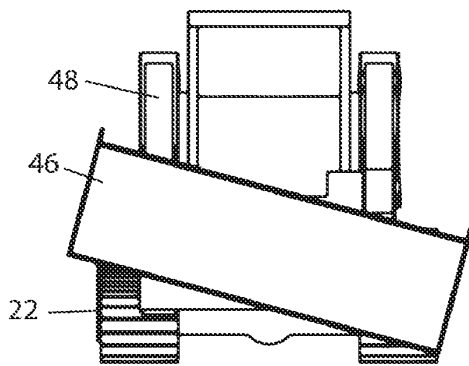


FIG. 3

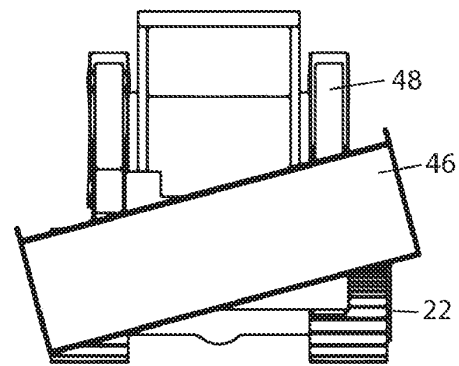


FIG. 4

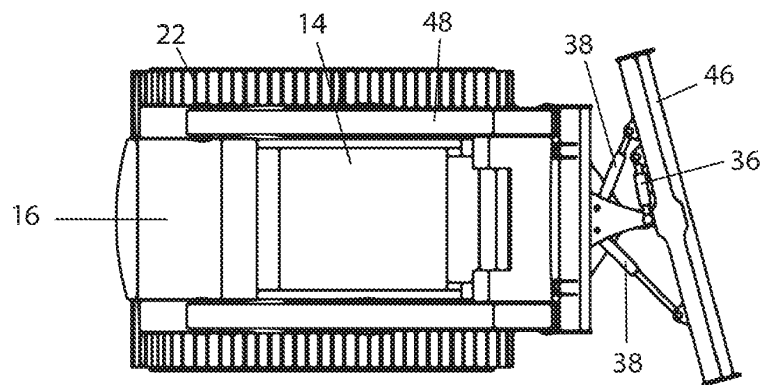


FIG. 5

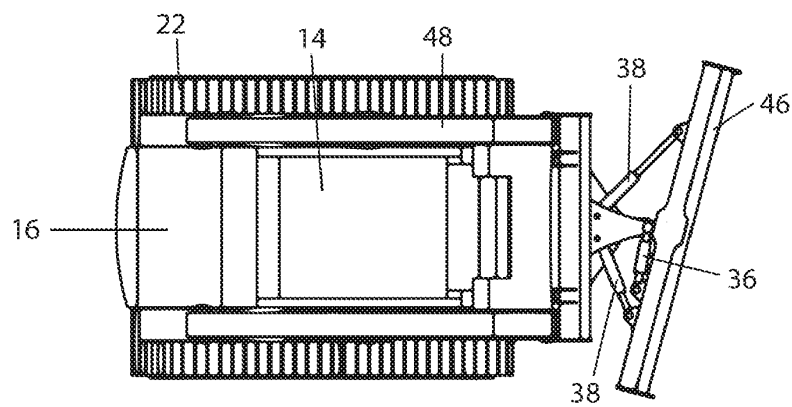


FIG. 6

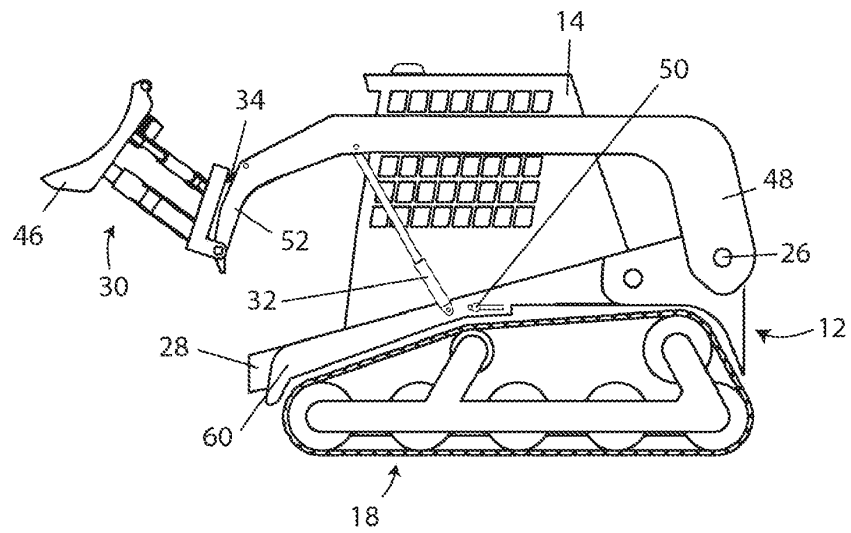


FIG. 7

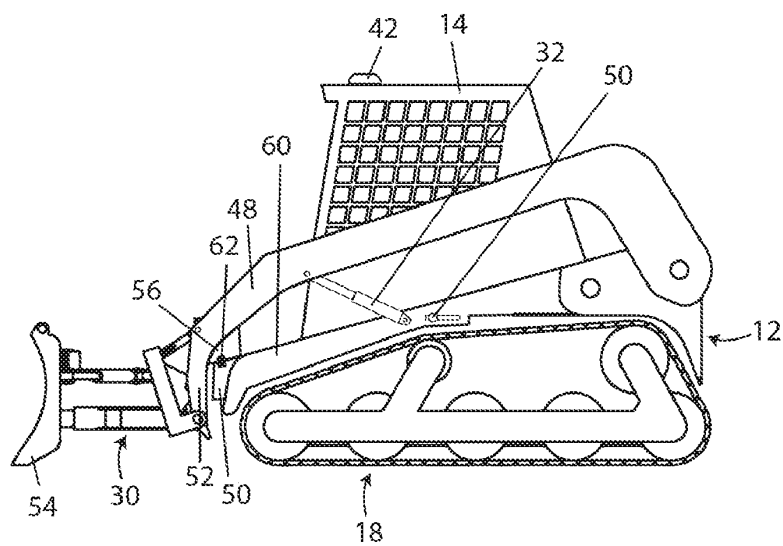


FIG. 8

Electronic Acknowledgement Receipt	
EFS ID:	33624058
Application Number:	16055094
International Application Number:	
Confirmation Number:	4485
Title of Invention:	Automatic Grader Stabilizer
First Named Inventor/Applicant Name:	David Armas
Customer Number:	64231
Filer:	Christopher James Van Dam
Filer Authorized By:	
Attorney Docket Number:	Armas
Receipt Date:	04-SEP-2018
Filing Date:	04-AUG-2018
Time Stamp:	19:21:07
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	Applicant Response to Pre-Exam Formalities Notice	Armas_16055094_Amendment_FINAL_4sep2018.pdf	50358 8589de1f9d7706d4203926cf7e825e233fe3e493	no	2

Warnings:

Information:					
2	Drawings-only black and white line drawings	Armas_16055094_ReplacementDrawings_FINAL_4sep2018.pdf	1808083	no	4
			550108359dc87688e7a40c1a7612857684c bad99		
Warnings:					
Information:					
Total Files Size (in bytes):			1858441		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/055,094	08/04/2018	David Armas	Armas

CONFIRMATION NO. 4485

FORMALITIES LETTER

64231
CHRISTOPHER J. VANDAM, P.A.
19600 NE 21 Ct.
MIAMI, FL 33179



Date Mailed: 08/22/2018

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

An application number and filing date have been accorded to this application. The application is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given TWO MONTHS from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
 - The drawings must be reasonably free from erasures and must be free from alterations, overwriting, interlineations, folds, and copy marks. See Figure(s) 1-8.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web, including a copy of this Notice and selecting the document description "Applicant response to Pre-Exam Formalities Notice".
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/bcao/



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/055,094	08/04/2018	3671	430	Armas	4	1

CONFIRMATION NO. 4485

FILING RECEIPT



0000000101788341

64231

CHRISTOPHER J. VANDAM, P.A.
19600 NE 21 Ct.
MIAMI, FL 33179

Date Mailed: 08/22/2018

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**

Inventor(s)

David Armas, Homestead, FL;

Applicant(s)

David Armas, Homestead, FL;

Power of Attorney: The patent practitioners associated with Customer Number 64231

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 08/22/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/055,094**

Projected Publication Date: To Be Determined - pending completion of Corrected Papers

Non-Publication Request: No

Early Publication Request: No

**** MICRO ENTITY ****

Title

Automatic Grader Stabilizer

Preliminary Class

172

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/055,094				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	75			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	165			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	190			
TOTAL CLAIMS (37 CFR 1.16(j))	4	minus 20 = *				x 25 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *				x 115 =	0.00			
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).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	430			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
TOTAL ADD'L FEE									TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
TOTAL ADD'L FEE									TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										

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.

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	ARMAS, David
	Title	AUTOMATIC GRADER STABILIZER
	Art Unit	
	Examiner Name	
	Attorney Docket Number	Armas

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:

64231

OR

☐ I hereby appoint Practitioner(s) named below 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:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the:

☒ Applicant/Inventor.

OR

☐ Assignee of record of the entire interest. See 37 CFR 3.71.

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

SIGNATURE of Applicant or Assignee of Record	
Signature	X <i>David Armas</i>
Name	David Armas
Title and Company	Applicant and Inventor

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

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: 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.

ARMAS

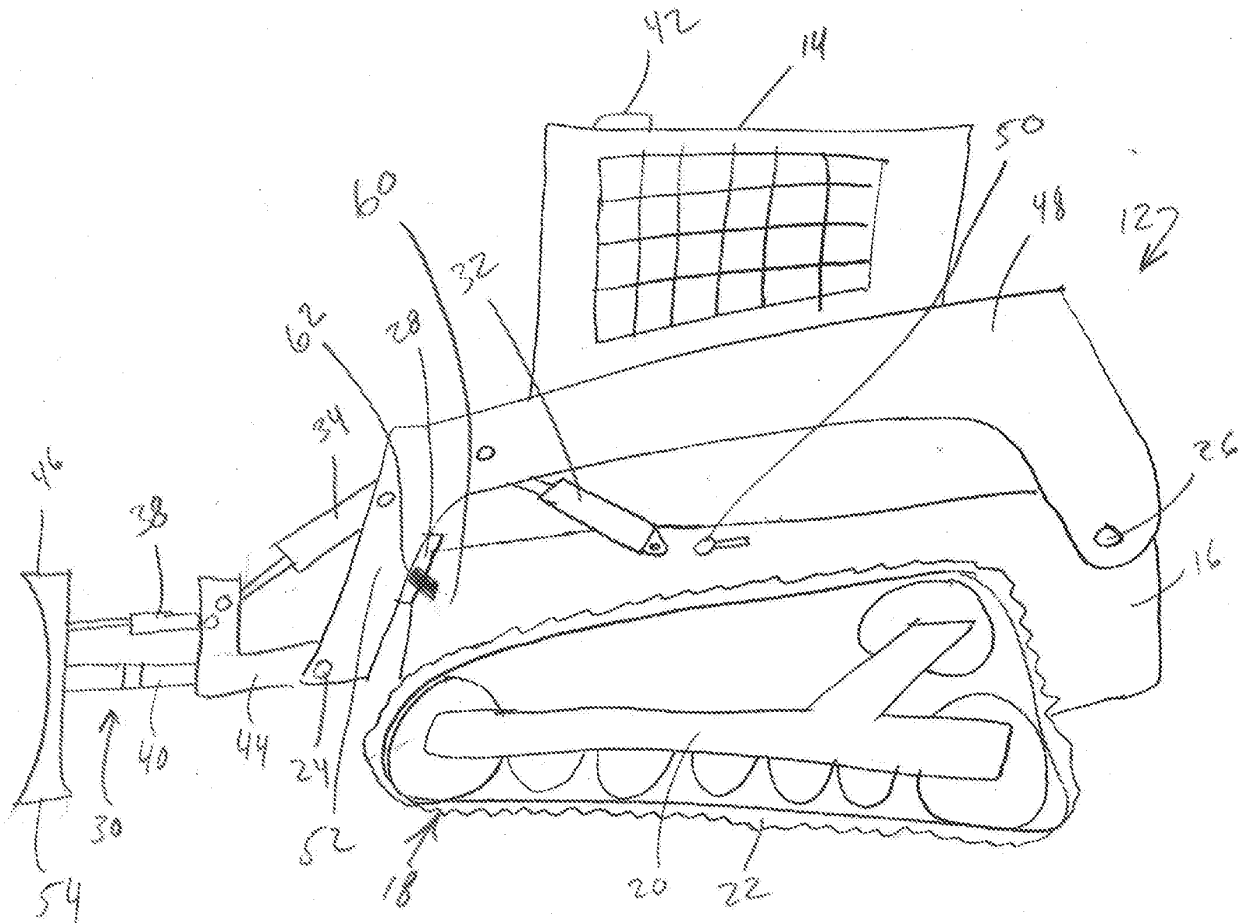


FIG. 1

50-valve
52-front
54-bottom

- 12-tractor assy
- 14-operator cage
- 16-engine case
- 18-track assy
- 20-suspension
- 22-track
- *24-hinge
- *26-hinge
- *28-stop
- 30-blade assy
- 32-hydraulic (main arm)
- 34-hydraulic (pitch)
- 36-hydraulic (roll)
- 38-hydraulic (yaw)
- 40-frame
- *42-actuator
- 44-frame
- 46-blade
- 48-main arm

C. J. J. J.
2 Aug 2018
C. J. J. J.

ARMAS

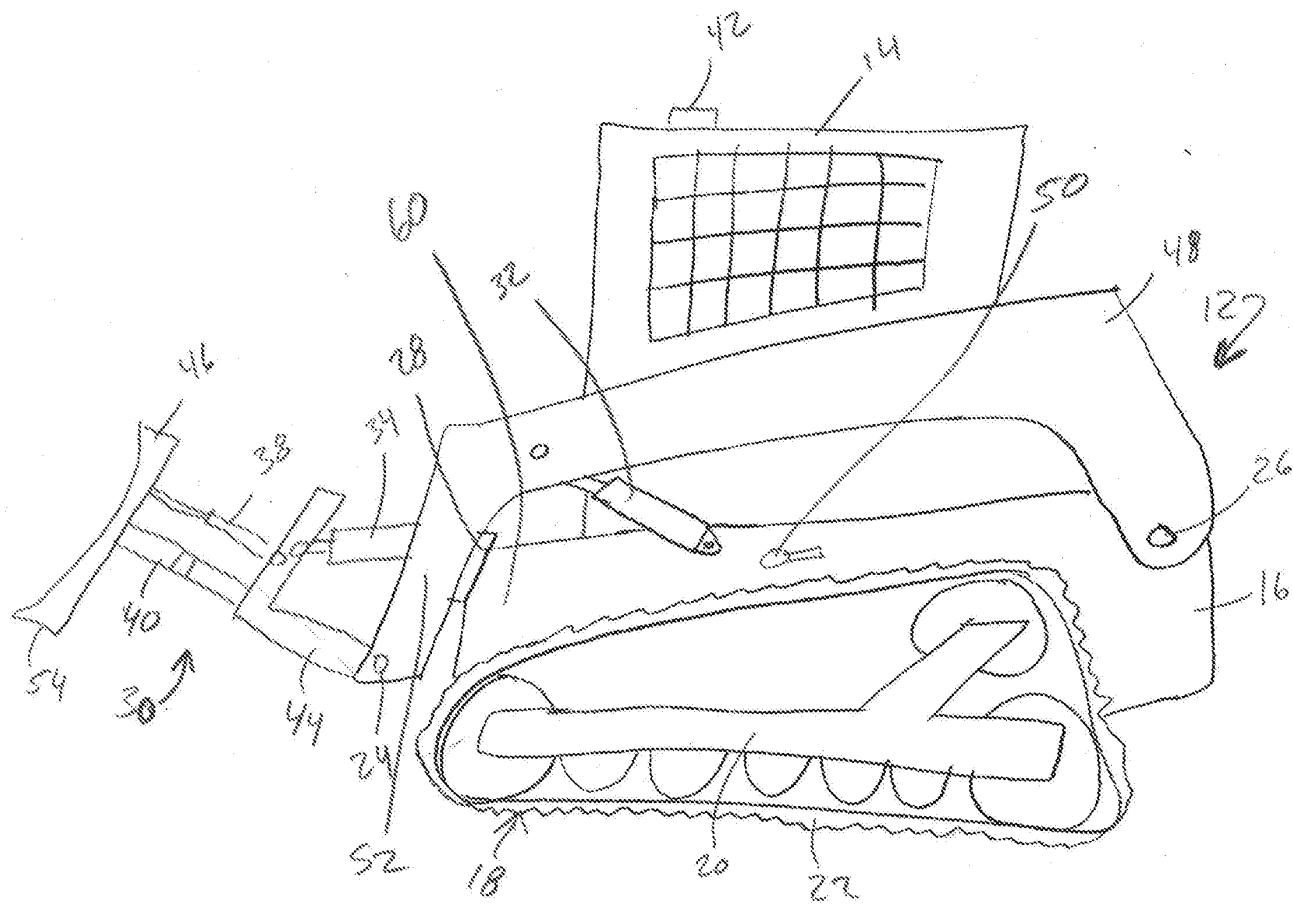


Fig. 2

C. VAN DAM
2 AUG 2018
C. VAN DAM

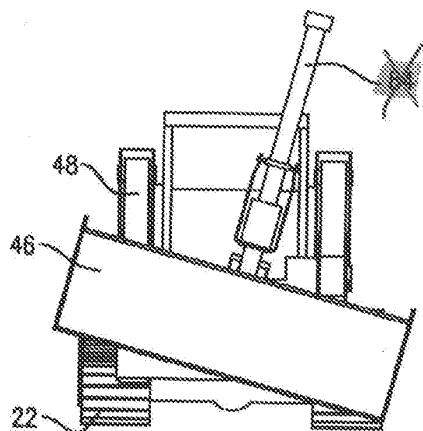


Fig. 3

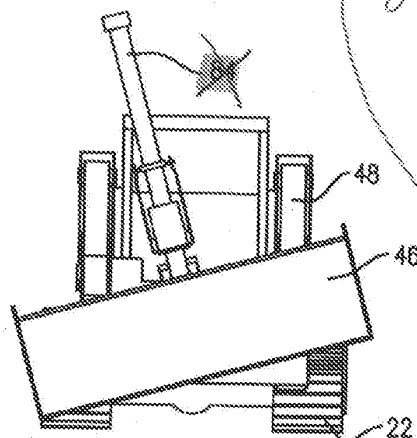


Fig. 4

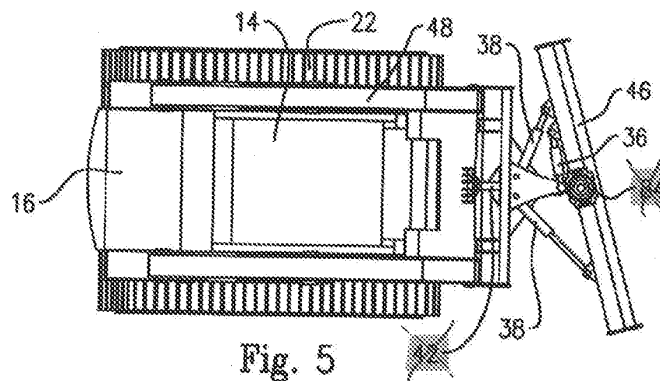


Fig. 5

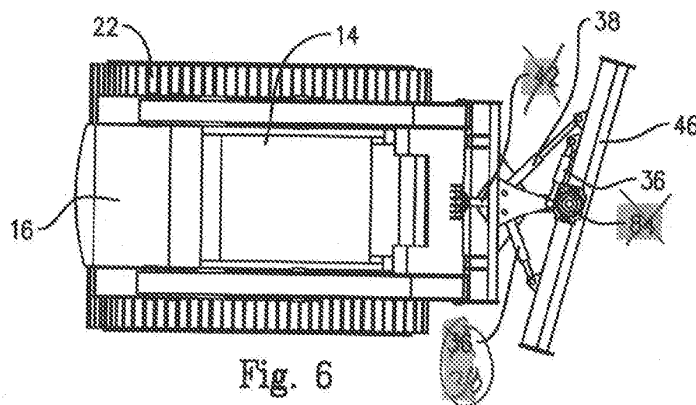


Fig. 6

Handwritten signature and date:
2 Aug 2010
C. V. ...

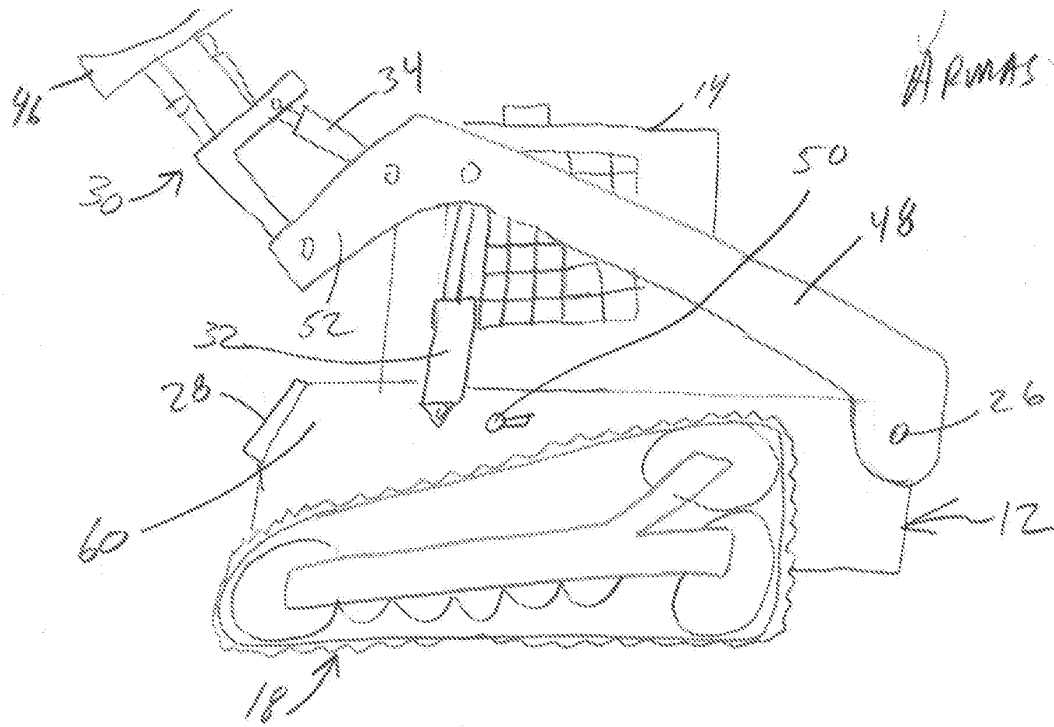


Fig. 7

56 - bracket
58 - stop
60 - body
62 - lock

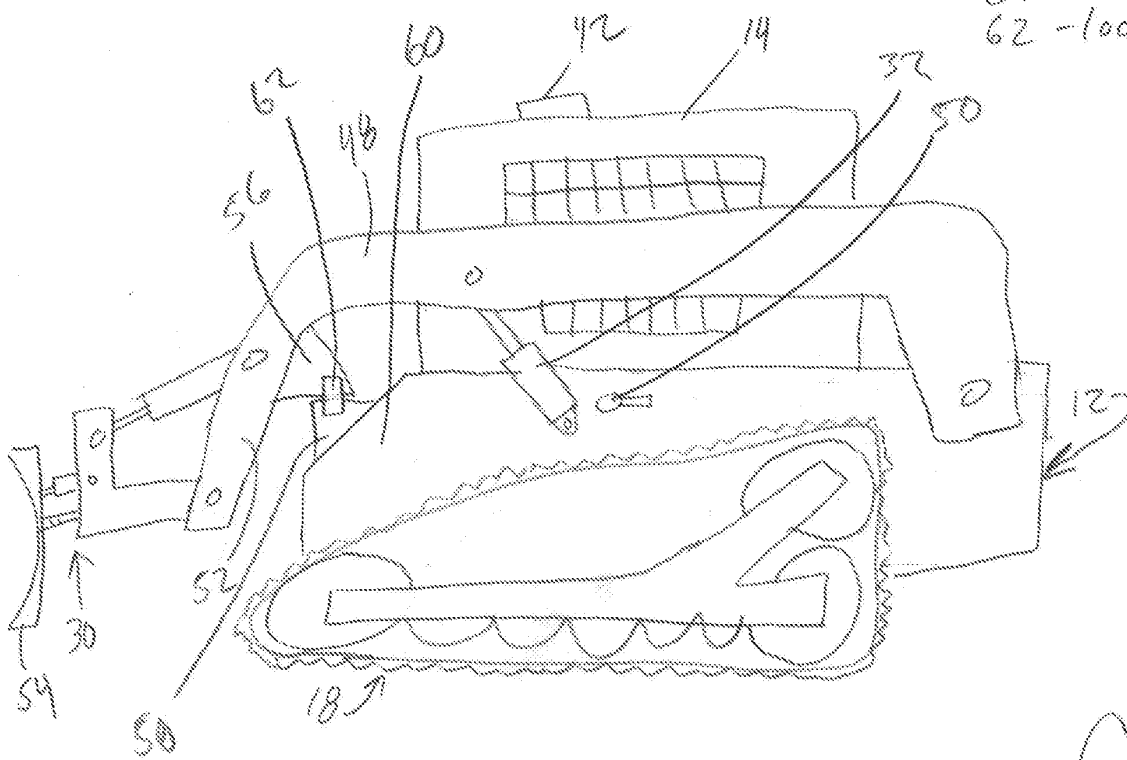


Fig. 8

Note: The Key
here is new
bracket 56 &
stop 58 instead
of stop 28

2 Aug 2008
C-UNION

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		Automatic Grader Stabilizer		
First Named Inventor/Applicant Name:		David Armas		
Filer:		Christopher James Van Dam		
Attorney Docket Number:		Armas		
Filed as Micro Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
BASIC FILING FEE-UTILITY	3011	1	75	75
UTILITY SEARCH FEE	3111	1	165	165
UTILITY EXAMINATION FEE	3311	1	190	190
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 (\$)				430

Electronic Acknowledgement Receipt	
EFS ID:	33376655
Application Number:	16055094
International Application Number:	
Confirmation Number:	4485
Title of Invention:	Automatic Grader Stabilizer
First Named Inventor/Applicant Name:	David Armas
Customer Number:	64231
Filer:	Christopher James Van Dam
Filer Authorized By:	
Attorney Docket Number:	Armas
Receipt Date:	04-AUG-2018
Filing Date:	
Time Stamp:	21:53:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$430
RAM confirmation Number	080618INTEFSW21550400
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	WebADS.pdf	114881	no	7
			8008913c7eeba631564ae1e2d1817fd9c2f1ff30		
Warnings:					
Information:					
2	Abstract	Armas_AutoGraderStabilizer_Abstract_FINAL_4aug2018.pdf	31118	no	1
			e7d1a2d0db9f17b140e6c1112873bf68eae22d7f		
Warnings:					
Information:					
3	Claims	Armas_AutoGraderStabilizer_Claims_FINAL_4aug2018.pdf	33123	no	2
			aec8b46d3f2d5cdc7daba9d28674baea731c4384		
Warnings:					
Information:					
4	Specification	Armas_AutoGraderStabilizer_Specification_FINAL_4aug2018.pdf	123754	no	20
			6e72f9e516f5002adf55954501049b387635e3e3		
Warnings:					
Information:					
5	Oath or Declaration filed	Armas_AutoGraderStabilizer_Declaration_FINAL_4aug2018.pdf	361415	no	2
			9cfb9a59dc046af0cedf9e9cce88da4d586305e6		
Warnings:					
Information:					
6	Certification of Micro Entity (Gross Income Basis)	Armas_AutoGraderStabilizer_Microentity_FINAL_4aug2018.pdf	203429	no	1
			13a3fbdb43c46d4cf3a913934982c33c9626f74a		
Warnings:					
Information:					

7	Power of Attorney	Armas_AutoGraderStabilizer_POA_FINAL_4aug2018.pdf	172259	no	1				
			f747f001f8f0a102e3536b2b5bce85c8ef35e21						
Warnings:									
Information:									
8	Drawings-only black and white line drawings	Armas_AutoGraderStabilizer_DrawingsInformal_FINAL_4aug2018.pdf	3133219	no	4				
			6f4bd9d4163dded2031da3106a27cfbea6bffb4e						
Warnings:									
Information:									
9	Fee Worksheet (SB06)	fee-info.pdf	34945	no	2				
			8d65b02563f9ddd72bcdac98887d849dfa03e7						
Warnings:									
Information:									
Total Files Size (in bytes):			4208143						
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.									

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Armas
		Application Number	
Title of Invention	Automatic Grader Stabilizer		
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.)
--------------------------	---

Inventor Information:

Inventor 1					
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	David		Armas		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Homestead	State/Province	FL	Country of Residence ⁱ	US
Mailing Address of Inventor:					
Address 1	32240 SW 199 Ave				
Address 2					
City	Homestead	State/Province	FL		
Postal Code	33030	Country ⁱ	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add					

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
☐ An Address is being provided for the correspondence information of this application.			
Customer Number	64231		
Email Address	chris@vandamlaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	Automatic Grader Stabilizer		
Attorney Docket Number	Armas	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	1

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	Armas
		Application Number	
Title of Invention	Automatic Grader Stabilizer		

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **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.

Representative Information:

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). Either enter 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:						☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number								
Prefix	Given Name	Middle Name	Family Name	Suffix	Remove			
Registration Number								
Prefix	Given Name	Middle Name	Family Name	Suffix	Remove			
Registration Number								
Additional Representative Information blocks may be generated within this form by selecting the Add button.								

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Armas
		Application Number	
Title of Invention	Automatic Grader Stabilizer		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim 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.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) 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 priority to a foreign application. 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. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. ☐ NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.
--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Armas
		Application Number	
Title of Invention	Automatic Grader Stabilizer		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Armas
		Application Number	
Title of Invention	Automatic Grader Stabilizer		

Applicant Information:

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

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

- ☐ Assignee
 ☐ Legal Representative under 35 U.S.C. 117
 ☐ Joint Inventor
- ☐ Person to whom the inventor is obligated to assign.
 ☐ Person who shows sufficient proprietary interest

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information For Applicant:

Address 1			
Address 2			
City		State/Province	
Country ¹		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Armas
		Application Number	
Title of Invention	Automatic Grader Stabilizer		

Assignee Information including Non-Applicant Assignee Information:

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

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
If the Assignee or Non-Applicant Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country i		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	Armas
		Application Number	
Title of Invention	Automatic Grader Stabilizer		

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/chris vandam/			Date (YYYY-MM-DD)	
First Name	Christopher	Last Name	Vandam	Registration Number	58464
Additional Signature may be generated within this form by selecting the Add button.					

ABSTRACT OF THE DISCLOSURE

A method of stabilizing a small to mid-sized skid steer vehicles used to grade earth using a dozer blade in conjunction with GPS automatic grade control equipment. The main arm of the skid steer is retained at a specific height and the hydraulic controlling the main arm is limited. The height of the dozer blade is raised and lowered by affecting the pitch axis of movement of the blade and not by raising and lowering the main arm. The device is most suited to skid steer vehicles capable of using a variety of interchangeable front end accessories in addition to a dozer blade.

1 **VI. CLAIMS**

2
3 What is claimed is:

- 4
- 5 **1. A method for controlling a dozer blade controlled by an automatic**
6 **grade control system on a skid steer vehicle comprising:**
7 **providing a skid steer vehicle having a main arm with a front side**
8 **operably coupled to a dozer blade assembly;**
9 **providing a stop connected to the skid steer vehicle upon which a**
10 **point of the main arm rests thereby defining a lower limit of**
11 **movement of the main arm;**
12 **positioning the point of the main arm against the stop;**
13 **preventing the ability of the main arm from providing any lifting**
14 **force by restricting the ability of a hydraulic that lifts the main arm;**
15 **operably connecting the automatic grade control system to a**
16 **hydraulic that controls a pitch axis of movement of the dozer blade**
17 **to affect a height of the dozer blade relative to a ground surface.**
18 **2. The method for controlling a dozer blade as in claim 1 further**
19 **including: locking the main arm against the stop when the main**
20 **arm is at the lower limit of movement of the main arm.**
21 **3. The method for controlling a dozer blade as in claim 1 further**
22 **including: operating a valve to hydraulically isolate the hydraulic**
23 **lift that lifts the main arm to further prevent any movement of the**
24 **main arm.**

- 1 **4. The method for controlling a dozer blade as in claim 3 further**
2 **including: locking the main arm against the stop when the main**
3 **arm is at the lower limit of movement of the main arm.**

1 **I. TITLE: "AUTOMATIC GRADER STABILIZER"**

2
3 **II. BACKGROUND OF THE INVENTION**

4
5 **1. Field of the Invention.**

6
7 The present invention relates to earth moving equipment, and more
8 particularly, to an improved earth moving grader stabilizer.
9

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

11
12 Several designs for improvements to earth moving equipment have
13 been designed in the past. None of them, however, includes a device that
14 stabilizes an earth moving grader blade of small to medium-sized track-
15 steer or skid-steer vehicles using a remote grade controller system.
16

17 Applicant believes that the closest reference corresponds to U.S.
18 patent No. 8,118,111 issued to Armas. However, it differs from the present
19 invention because the Armas method attempts to stabilize the dozer blade
20 by a brackets locking the pitch axis movement of the dozer blade with a
21 bracket locking relative movement between the main arm of the vehicle
22 and the attachment comprising the dozer blade assembly. The Armas prior
23 art maintains the full movement of the main arm of the vehicle to raise and
24 lower the attachment assembly including the dozer blade.
25

1 The limitations of this method rests in the requirement for the
2 automatic grading system to finely adjust the grade height of the blade by
3 using the large hydraulics of the main arm to lift and lower the entire dozer
4 blade assembly along with the up and down movements of the main arm.
5 This creates a lot of weight being moved continually up and down as the
6 blade automatically is adjusted by the automatic grade system which has
7 the limitations of using significant power, imparting stress on the greater
8 structure of the skid steer vehicle, slows movement with greater mass
9 being moved and reduces the fineness of the resolution that the cutting
10 edge of the blade can be held during automatic grading operations.

11
12 The Armas system is very effective when used with an automatic
13 laser grading systems as disclosed in his '111 patent. The laser system is
14 guided by a laser receiver mast affixed to the dozer blade to measure and
15 calibrate the controlled movements of the vertical position of the dozer
16 blade during automatic grading operations. For this to be effective the
17 blade must generally be held vertically to ensure that the laser mast is
18 generally vertical. Tilting of the mast off from a vertical position would
19 impart an error to the system causing the automatic controller to
20 misinterpret the actual height of the bottom of the dozer blade relative to
21 the earth being moved.

22
23 However, with the advent of higher resolutions with the wide area
24 augmentation system global positioning system (WAAS-GPS) the laser
25 mast is no longer required in all automatic grading systems. The limitation

1 created by a tilting mast that can confuse the accuracy of a laser grading
2 system is no longer a factor for these systems. The location of the blade can
3 be derived by satellite and the height of the blade calibrated for consistent
4 and accurate automatic grading.
5

6 The present device and method stabilizes the dozer blade attachment
7 assembly by limiting the main arm of the vehicle axis of movement. This
8 provides a stable platform for the dozer blade attachment assembly that in
9 turn which permits greater control of the blade and stabilizes the blade for
10 more precise control. This and other features are described in more detail
11 below.
12

13 Other patents describing the closest subject matter provide for a
14 number of more or less complicated features that fail to solve the problem
15 in an efficient and economical way. None of these patents suggest the
16 novel features of the present invention.
17

18 A brief abstract of the technical disclosure in the specification and
19 title are provided as well for the purposes of complying with 37 CFR 1.72
20 and are not intended to be used for interpreting or limiting the scope of the
21 claims.
22

23 Without limiting the scope of the invention, a brief summary of some
24 of the claimed embodiments of the invention is set forth below. Additional
25 details of the summarized embodiments of the invention and/or additional

1 embodiments of the invention may be found in the detailed description of
2 the invention below.

3 4 5 **III. SUMMARY OF THE INVENTION** 6

7 It is one of the main objects of the present invention to provide a
8 device that grades a wide variety of soil types and site conditions in a
9 highly accurate way.

10
11 Another object of the present invention is to provide a stable platform
12 on a medium to small skid steer vehicle that does not need the use of a
13 laser mast affixed to the dozer blade but instead adapts the vehicle to be
14 suitable for GPS automatic laser grading systems.

15
16 It is another object of the present invention that does not require any
17 additional ground contacting stabilizers.

18
19 It is another object of this invention to provide a device that can
20 maneuver in restricted space and around sensitive objects and substrates.

21
22 It is still another object of the present invention to provide greater
23 functionality to small to medium skid steer and track steer vehicles while
24 retaining their ability to be used with the wide variety of available
25 accessories.

1
2 It is yet another object of this invention to provide such a device that
3 is inexpensive to manufacture, light weight and easy to maintain while
4 retaining its effectiveness.
5

6 Further objects of the invention will be brought out in the following
7 part of the specification, wherein detailed description is for the purpose of
8 fully disclosing the invention without placing limitations thereon.
9

10 These and other embodiments which characterize the invention are
11 pointed out with particularity in the claims annexed hereto and forming a
12 part hereof. However, for a better understanding of the invention, its
13 advantages and objectives obtained by its use, reference can be made to the
14 drawings which form a further part hereof and the accompanying
15 descriptive matter, in which there are illustrated and described various
16 embodiments of the invention.
17
18

19 **IV. BRIEF DESCRIPTION OF THE DRAWINGS** 20

21 With the above and other related objects in view, the invention
22 consists in the details of construction and combination of parts as will be
23 more fully understood from the following description, when read in
24 conjunction with the accompanying drawings in which:
25

1 **Figure 1** is a side elevation view of a track steer vehicle with a dozer
2 blade in a lower position.

3
4 **Figure 2** is a side elevation view of a track steer vehicle with a dozer
5 blade in an upper position.

6
7 **Figure 3** is a front elevation view demonstrating blade roll counter
8 clockwise.

9
10 **Figure 4** is a front elevation view demonstrating blade roll clockwise.

11
12 **Figure 5** is a top plan view demonstrating blade yaw left.

13
14 **Figure 6** is a top plan view demonstrating blade yaw right.

15
16 **Figure 7** is a side elevation view demonstrating a raised main arm.

17
18 **Figure 8** is a side elevation view demonstrating lowered main arm
19 and an alternate example of bracket.

20
21
22 **V. DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**
23

24 While this invention may be embodied in many different forms, there
25 are described in detail herein specific embodiments of the invention. This

1 description is an exemplary of the principles of the invention and is not
2 intended to limit the invention to the particular embodiments illustrated
3 and described.

4
5 For the purpose of this disclosure, like reference numerals in the
6 figures shall refer to like features unless otherwise indicated or is obvious
7 by context.

8
9 The subject device and method of use is sometimes referred to as the
10 device, the invention, the dozer, the automatic grader, the skid steer, the
11 bracket, the GPS grader, the machine, the system, the method or other
12 similar terms. These terms may be used interchangeably as context requires
13 and from use the intent becomes apparent. The masculine can sometimes
14 refer to the feminine and neuter and vice versa. The plural may include the
15 singular and singular the plural as appropriate from a fair and reasonable
16 interpretation in the situation.

17
18 Skid steer vehicles are commonly commercially available. The skid
19 steer vehicle that is preferred to work with the present device is small to
20 medium sized and designed to accept any of a variety of front end
21 accessories such as a dozer blade, pallet forks, a mower, a hole digger and
22 several others. These front end accessories can be interchanged relatively
23 easy with one or two men in a few minutes. The popularity of the small to
24 medium sized skid steer class of vehicle is owed largely to the availability

1 of the front end accessories by allowing a single vehicle to accomplish a
2 wide variety of tasks without the need for specialty vehicles.

3
4 Grade control systems, such as laser automation, are commonly
5 commercially available. Many early systems worked with a laser reference
6 beacon erected on an edge of a job site at a known location and elevation
7 established by survey. A laser receiver is attached to earthmoving
8 equipment, typically onto the ground contacting blade, and sends a signal
9 to a computer accessible to the operator of the earthmoving equipment.
10 The computer is able to determine if the blade is above or below the
11 desired grade and make adjustments as necessary to the blade height by
12 controlling the hydraulics that move the blade.

13
14 However, the automatic grade control systems have evolved to
15 utilize highly accurate GPS signals in combination with computer control
16 modules to automate the height of the dozer blade as the vehicle moves
17 over the job site. Laser control masts are no longer needed to maintain the
18 accuracy of earlier machines.

19
20 With the prior art laser control systems the dozer blade supported the
21 laser control receiver mast. This mast had to be held upright, nearly
22 vertical, consistently so that the system could use the top of the mast as a
23 datum for referencing the height of the bottom of the dozer blade the
24 defined the grade being made as the dozer moved over the earth defining
25 the new grade.

1
2 Earlier solutions kept the blade and therefore the laser mast vertical
3 by preventing the pitch axis of movement of the dozer blade. This kept the
4 mast vertical. However, the height of the dozer blade was then controlled
5 by the vertical movement of the main arm that also carried the entire dozer
6 blade assembly.

7
8 The dozer blade assembly with the several hydraulic actuators, dozer
9 blade, hoses, frame and other elements, along with the main arm itself is
10 very heavy. This uses substantial energy to move and has a potential for
11 slowed and jerky movements that can affect the precision and smoothness
12 of the grade.

13
14 The solution generally is found when the laser mast is no longer
15 needed because GPS has been employed to control the automatic grade
16 computer location and the required grade relative to that location. Without
17 the laser mast the dozer blade, previously restricted in pitch movement,
18 can now be freed to adjust as necessary to control the bottom of the dozer
19 blade defining the surface grade.

20
21 However, it has been determined through much trouble and
22 experimentation that when the main arm is available to control the height
23 of the bottom of the dozer blade while the pitch axis of the blade is
24 simultaneously adjusting the height of the bottom of the blade that a
25 consistent grade cannot be consistently achieved. This is particularly so

1 when there are varying densities of soil substrates that are being graded
2 with the dozer blade.

3
4 A solution at the heart of the present invention is to secure the height
5 of the main arm so that when the dozer blade is vertical the bottom of the
6 dozer blade is at a predetermined height relative to the preexisting grade as
7 generally defined as the plane on which the dozer tracks ride.

8
9 With the advent of highly accurate GPS and related positioning
10 systems the laser reference is no longer needed to be affixed to the top of
11 the blade. This now allows the pitch axis, or forward tilt of the dozer blade
12 to be moved without adversely affecting a laser control system and thereby
13 freeing earlier limitations.

14
15 Referring now to the drawings, where the present invention is
16 generally referred to with numeral **10**, it can be observed that it basically
17 includes a tractor assembly **12**, an operator cage **14**, an engine case **16**, a
18 track assembly **18**, a suspension **20**, a track **22**, a hinge **24**, a hinge **26**, a
19 hinge **28**, a blade assembly **30**, a hydraulic **32**, a hydraulic **34**, a hydraulic
20 **36**, a hydraulic **38**, a frame **40**, an antennae **42**, a frame **44**, a blade **46**, a
21 main arm **48**, a valve **50**, a front **52**, a bottom **54**, a bracket **56**, a stop **58**, a
22 body **60** and a lock **62** and a leveler assembly **80**.

23
24 Said tractor assembly **12** comprises, inter alia, an operator cage **14**
25 and an engine case **16**. An operator of the vehicle sits inside of and operates

1 the vehicle from inside the operator cage **14**. An engine inside the engine
2 case **16** typically powers the vehicle including any hydraulics and an
3 electrical system that powers the native on-board computer control system
4 of the skid steer. Essentially the electronic controls of modern skid steer
5 vehicles are fly-by-wire. Electrical inputs from a joystick are processed by
6 the native computer and operate a system of solenoids, actuators, valves
7 and other components to then control the hydraulic system that ultimately
8 supplies the force to move the various elements of the skid steer and the
9 operative attachments, such as a dozer blade assembly.

10
11 Said track assembly **18** comprises, inter alia, a suspension **20** and a
12 track **22**. In most applications a track steer vehicle will have
13 complementary track assemblies **18** on both sides of the vehicle. The
14 present system will work equally well on a wheeled vehicle and is not
15 dependent on the form that the small earth moving vehicle embodies.
16 However, a skid steer is commonly utilized with the present invention on
17 many job sites and is well suited to move earth.

18
19 Said blade assembly **30** comprises, inter alia, a hydraulic **32**, a
20 hydraulic **36**, a hydraulic **38**, a frame **40**, a bracket **42**, a frame **44**, a blade **46**
21 and a main arm **48**. The blade assembly **30** can generally be removed from
22 the skid steer to use another attachment, as noted above.

23
24 Some users of the present system find it so indispensable that efforts
25 are taken to permanently affix the blade assembly **30** to the skid steer and

1 essentially make it a one purpose vehicle. Some of these adaption use
2 welding to affix the blade assembly to the front of the skid steer. The
3 remaining axis of movements should be retained so that the automatic
4 grade system keeps the full functionality with which it was designed to
5 use.

6
7 Figure 1 is an elevation view of a skid steer vehicle with a blade
8 assembly **30** attached operatively to the front. Importantly, the front **52** of
9 the main arm **48** is resting on the stop **28**. This positions the main arm **48** in
10 the lower most position. The main arm **48** cannot go lower because the stop
11 **28** limits its downward movement.

12
13 The stop **28** is located on the body **60** of the skid steer or other
14 location where the stop **28** is determined to intersect the front **52** or other
15 part or bracket associated with the main arm **48** to limit its movement.
16 Essentially the main arm **48** rests with the weight of the main arm **48**
17 securely held by the stop **28**.

18
19 The combination of stop **28** resting on the front **52** is merely enabling
20 and exemplary of any combination where the main arm **48** bottoms out on
21 a structure that supports the weight of the main arm **48** so that the main
22 arm **48**, and the blade assembly **30** affixed thereto so that the bottom **54** of
23 the blade **46** is at a selected height relative to the level of the ground upon
24 which the tracks **22** are supported.

1 As seen in figures 1 and 2, when the main arm **48** is fully down the
2 main arm **48** is against the stop **28** and locked against the stop with the lock
3 **62**. The lock **62** connects the main arm **48** (or an appendage thereto) against
4 the body **60** (or appendage thereto) so that the main arm **48** is unable to
5 move up or down. To further inhibit movement of the main arm **48**, when
6 the lock **62** is secure the valve **50** providing hydraulic pressure to the
7 hydraulic **32** to move the arm is closed effectively stopping any movement
8 of the main arm **48** by an additional means.

9
10 By having the valve **50** present the machine can easily be
11 reconfigured with an alternate front attachment that utilizes the movement
12 of the main arm **48**, for example, a dump bucket, auger or any other
13 attachment. When the other attachment is connected the valve **50** is simply
14 opened and the lock **62** is removed and full functionality of the main arm
15 **48** is restored.

16
17 With the valve **50** the user contemplates returning the skid steer to
18 function with attachments other than only the dozer blade. In accord with
19 this intent, the lock **62** is preferably also unlockable to free the movement of
20 the main arm **48**. The lock may therefore be comprised of a bracket like
21 structure removably fixing the main arm **48** in position. Similarly, the lock
22 **62** could manifest as a pinning system, bolting system or other similar
23 means to connect the main arm **48** with the body **60** and substantially
24 preventing movement of the main arm **48** when the lock **62** is secured and
25 the hydraulic **32** is rendered ineffective.

1
2 In some versions of the application of the inventive concept the valve
3 **50** is not needed because the operator of the vehicle opts to dedicate the
4 machine more fully to the GPS automatic grading. In this option, the
5 hydraulic **32** is disconnected by capping the supply and or return hydraulic
6 lines that feed hydraulic **32**. This effectively stops any motive force
7 affecting the raising and lowering the main arm **48** so the lock **62** secures
8 the main arm **48** unopposed. With the hydraulic supply to hydraulic **32**
9 removed there is no need for a valve **50**.
10

11 In yet another variation that fully and essentially permanently
12 dedicates the machine to GPS automatic grading the main arm **48** may be
13 welded to the body or other structure of the vehicle to permanently lock
14 the main arm **48** in place. The hydraulics **32** affecting the main arm **32** may
15 be disabled or removed entirely. This option may be attractive to some
16 users because it may be cheaper to install if the skid steer will never be
17 used with the main arm **48** functional. In this version lock **62** would also be
18 unnecessary because the weld would hold the main arm **48** in a secure
19 position.
20

21 Referring now to Figure 2 where the same vehicle is shown as in
22 figure 1 but now shows the hydraulic **34** in a contracted configuration
23 compared to the extended mode in figure 1. The difference between figures
24 1 and 2 is exaggerated in these renderings to show that by changing the
25 degree to which the hydraulic **34** is extended or retracted that the distance

1 that the bottom **54** of the blade **46** lowers or raises relative to the plane of
2 the ground defined by the bottom level of the tracks.
3

4 It is exactly this movement of the bottom **54** of the blade up and
5 down that controls the depth of the cut of the blade as controlled by the
6 automatic GPS grading computer. In the prior art the main arm had to lift
7 the whole blade assembly **30** to move the bottom **54** up and down. Now,
8 with the main arm **48** locked only the pitch up of the blade **46** affects how
9 deep the blade **46** cuts the soil. The GPS computer controls this depth and
10 thereby controls the grade that the machine levels the soil. Notice how the
11 weight of the main arm **48** no longer is needed to move with the rest of the
12 blade assembly **30** when the height of the bottom **54** is manipulated by the
13 automatic grading computer.
14

15 As the hydraulic **34** picks up and lowers the blade **46** and its bottom
16 **54** the entire blade assembly **30** is articulated about hinge **24**. The roll and
17 yaw movements described below are still maintained effective and can also
18 be optionally controlled by the automatic grading computer system
19 independent of the pitch axis of movement.
20

21 It should be appreciated that there are alternative configurations of
22 equivalents of the blade assembly **30** than the illustration provided with
23 this specification. In some, the entire blade assembly **30** may not lift and
24 lower with the pitch hydraulic **34** because the pitch hydraulic **34** may be,
25 for example, directly connected to the blade **46** so that fewer elements than

1 the whole blade assembly **30** must be moved together. The inventive
2 concept includes that the main arm **48** is not responsible for the lifting of
3 the bottom **54** but instead is the hydraulic, functionally similar to hydraulic
4 **34**, that controls the pitch movement of the blade **46** that has the effect of
5 altering the height of the bottom **54**.

6
7 Now referring to Figures 3 and 4 where a front elevation view of a
8 skid steer vehicle with a dozer blade attachment is shown. These views are
9 to demonstrate the roll axis that the operator of the vehicle can move the
10 blade. The roll axis is typically manipulated to produce an incline or sloped
11 grade. The roll axis is controlled by hydraulic **36**.

12
13 Figures 5 and 6 are a top plan view of a skid steer vehicle with a
14 dozer blade attachment demonstrating the yaw axis that the operator of the
15 vehicle can move the blade. The yaw axis is typically changed to push soil
16 to one side of the skid steer vehicle. The change in yaw can be helpful in
17 moving soil as part of the grading process. The yaw axis is controlled by
18 hydraulics **38**.

19
20 Figures 7 shows an example of the main arm **48** in a lifted
21 configuration by extending the hydraulic **32**. In this configuration the lock
22 **62** is unlocked and the valve **50** is open allowing normal operation of the
23 main arm **48** as the machine was intended from the manufacturer. Figure 7
24 is not configured in accord with the present inventive concept while
25 functioning to automatic grade. This figure merely demonstrates the

1 capability of the machine when the present method of stabilizing the
2 automatic grading system is not employed. In at least some versions of the
3 invention the machine can easily be reconfigured to work as in figure 7 as
4 might be needed for purposes other than GPS automatic grading while the
5 valve **50** is open and the hydraulic **32** is active and the lock **62** is not
6 securing the main arm **48**.

7
8 Figure 8 is a side elevation view of a skid steer vehicle with a dozer
9 blade attachment demonstrating an alternate but equivalent means to
10 secure the main arm **48** in a stable position. As discussed above, the
11 hydraulic **32** is disabled by closing valve **50** or by the other hydraulic
12 limiting means. In this version there is a bracket **56** affixed to the main arm
13 **48** or other structure appurtenant thereto that interfaces with a stop **58**
14 associated with the body **60** or other structural part of the vehicle. The
15 combination of bracket **56** and stop **58** define a specific position that the
16 main arm **48** is held at during the GPS automatic grading operations.

17
18 The use of the bracket **56** and stop **58** allow any brand, shape or
19 configuration of skid steer to have a means to hold the main arm **48** at the
20 required position to in turn hold the blade assembly **30** at the right height
21 so that only the pitch axis of movement of the blade **46** affects how deep
22 the blade **46** cuts and the automatic grading computer can effectively cut
23 throughout the range of blade height needed.

1 The bracket **56** and stop **58** may be bolted or welded on the measured
2 position of the machine and its main arm **48** so that the bottomed out main
3 arm **48** is held at the right height. This may vary from make of machine to
4 different models of the same make. A lock **62** is also optionally provided to
5 secure the main arm **48** in place during automatic grading operations
6 similar to the lock on other embodiments as disclosed in the examples
7 given above.
8

9 Also similar to other versions above, the bracket **56** and stop **62** may
10 be a plate, bracket or other structure securing more permanently the main
11 arm **48** to the structure of the vehicle. Likewise the valve **50** could be traded
12 for other means to prevent activation of the hysdraulic **32** in addition to the
13 bracket **56** and stop **58**.
14

15 One commonly skilled in the art will appreciate a small to medium
16 skid steer vehicle as contrasted to a larger dedicated purpose earthmoving
17 vehicle such as a bulldozer.
18

19 One commonly skilled in the art will appreciate a small to medium
20 skid steer vehicle may have either ground contacting tracks or wheels. In
21 most environments a track style small to medium skid steer vehicle is
22 preferred for its stability, traction and resistance to sinking in softer soils or
23 creating ruts.
24

1 It should be appreciated that the inventive concepts can be
2 maintained by including some or all parts from different variations of the
3 embodiments described herein. The drawings are not intended to be
4 specifically limiting to a single configuration giving rise to the inventive
5 concept but are instead stylized illustrations of the important functions and
6 features that may be encompassed in the greater inventive intent as
7 apparent by this disclosure.
8

9 An important version of the invention can be fairly described as 1.
10 A method for controlling a dozer blade controlled by an automatic grade
11 control system on a skid steer vehicle comprising providing a skid steer
12 vehicle having a main arm with a front side operably coupled to a dozer
13 blade assembly. The skid steer is otherwise generally capable of having
14 other front end attachments for other types of jobs. Then providing a stop
15 connected to the skid steer vehicle upon which a point of the main arm
16 rests thereby defining a lower limit of movement of the main arm.
17 Essentially the main arm bottoms out at a preset height that is
18 complimentary of the proper height that the dozer blade needs to be for its
19 auto grading purposes. A bracket may be used to rest the main arm against
20 or in some skid steer vehicles the body of the machine is at the appropriate
21 height. A bracket and stop combination can be used to adapt any machine
22 to bottom out at the right height for the pitch of the blade alone to control
23 the continuous auto grading. Also, positioning the point of the main arm
24 against the stop so it is bottomed out. Also, preventing the ability of the
25 main arm from providing any lifting force by restricting the ability of a

1 hydraulic that lifts the main arm. This essentially neuters the ability of the
2 main arm to move up under power of the hydraulic that could normally
3 otherwise lift the main arm. Also, operably connecting the automatic grade
4 control system to a hydraulic that controls a pitch axis of movement of the
5 dozer blade to affect a height of the dozer blade relative to a ground
6 surface. The pitch axis of movement of the blade is this used to raise and
7 lower the grade height as controlled by the automatic grading computer
8 system. The method may further include locking the main arm against the
9 stop when the main arm is at the lower limit of movement of the main arm.
10 This can be by bracket, bolt, welding, pins, chains, clamp or other positive
11 means to hold the main arm in place at its lowest allowed position as
12 determined by the stop. The method may further including operating a
13 valve to hydraulically isolate (hydraulically disconnect) the hydraulic lift
14 actuator that lifts the main arm to further prevent any movement of the
15 main arm. This essentially disconnects the main arm control from the
16 system. This can also be achieved by disconnecting and capping off the
17 hydraulic control for the main arm or by removing that hydraulic control
18 completely.

19
20 The foregoing description conveys the best understanding of the
21 objectives and advantages of the present invention. Different embodiments
22 may be made of the inventive concept of this invention. It is to be
23 understood that all matter disclosed herein is to be interpreted merely as
24 illustrative, and not in a limiting sense.

Doc Code: Oath

Document Description: Oath or declaration filed

PTO/AIA/08 (06-12)

Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket Number	Armas
	First Named Inventor	ARMAS, David
	COMPLETE IF KNOWN	
	Application Number	
	Filing Date	
	Art Unit	
☒ Declaration Submitted With Initial Filing	OR	☐ Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16(f)) required)
Examiner Name		

AUTOMATIC GRADER STABILIZER

(Title of the Invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:

☒ The attached application,

OR

☐ United States Application Number or PCT International application number _____
filed on _____

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Authorization To Permit Access To Application by Participating Office

☒ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified patent application is filed to have access to the above-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

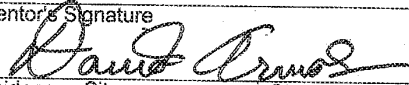
In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 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 1460, Alexandria, VA 22313-1460.**

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

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☒ The address associated with Customer Number: 64231		OR ☐ Correspondence address below	
Name Customer number 64231			
Address			
City		State	Zip
Country	Telephone	Email	
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. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: <i>Patent Application Files</i> . Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE/PAT-TM-10, System name: <i>Deposit Accounts and Electronic Funds Transfer Profiles</i> .			
LEGAL NAME OF SOLE OR FIRST INVENTOR:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
David Armas			
Inventor's Signature X 		Date (Optional)	
Residence: City	State	Country	
Homestead	FL	USA	
Mailing Address			
32240 SW 199 Ave			
City	State	Zip	Country
Homestead	FL	33030	USA
☐ Additional inventors are being named on the _____ supplemental sheet(s) PTO/AIA/10 attached hereto			

CERTIFICATION OF MICRO ENTITY STATUS (GROSS INCOME BASIS)					
Application Number or Control Number (if applicable):			Patent Number (if applicable):		
First Named Inventor: ARMAS, David			Title of invention: AUTOMATIC GRADER STABILIZER		
The applicant hereby certifies the following—					
(1) SMALL ENTITY REQUIREMENT - The applicant qualifies as a small entity as defined in 37 CFR 1.27. (2) APPLICATION FILING LIMIT - Neither the applicant nor the inventor nor a joint inventor has been named as the inventor or a joint inventor on more than four previously filed U.S. patent applications, excluding provisional applications and international applications under the Patent Cooperation Treaty (PCT) for which the basic national fee under 37 CFR 1.492(a) was not paid, and also excluding patent applications for which the applicant has assigned all ownership rights or is obligated to assign all ownership rights as a result of the applicant's previous employment. (3) GROSS INCOME LIMIT ON APPLICANTS AND INVENTORS - Neither the applicant nor the inventor nor a joint inventor, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986 (26 U.S.C. 61(a)), exceeding the "Maximum Qualifying Gross Income" reported on the USPTO website at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census. (4) GROSS INCOME LIMIT ON PARTIES WITH AN "OWNERSHIP INTEREST" - Neither the applicant nor the inventor nor a joint inventor has assigned, granted, or conveyed, nor is under an obligation by contract or law to assign, grant, or convey, a license or other ownership interest in the application concerned to an entity that, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986, exceeding the "Maximum Qualifying Gross Income" reported on the USPTO website at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.					
SIGNATURE by a party set forth in 37 CFR 1.33(b)					
Signature		X 			
Name		David Armas			
Date		Telephone		Registration No. Applicant	
☐		There is more than one inventor and I am one of the inventors who are jointly identified as the applicant. Additional certification form(s) signed by the other joint inventor(s) are included with this form.			