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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/323,170	12/18/2002	Chad Williams	008849.00026	7537
22908	7590	02/27/2018	EXAMINER	
BANNER & WITCOFF, LTD. TEN SOUTH WACKER DRIVE SUITE 3000 CHICAGO, IL 60606			HESS, DOUGLAS A	
			ART UNIT	PAPER NUMBER
			3651	
			NOTIFICATION DATE	DELIVERY MODE
			02/27/2018	ELECTRONIC

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

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

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

eofficeaction@bannerwitcoff.com



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
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In re Patent No.: 6,830,423 :
Issue Date: December 14, 2004 :
Application No.: 10/323,170 : DECISION ON PETITION
Filed: December 18, 2002 :
Title: PERSONAL MOBILITY VEHICLE :
LIFT :

This is a decision on the renewed petition under 37 CFR § 1.378(b), January 18, 2018, in response to the decision mailed October 18, 2017 dismissing the original petition to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent

The petition under 37 CFR §1.378(b) is **GRANTED**.

This patent expired on December 14, 2016 for failure to pay the 11.5 year maintenance fee. The maintenance fee is hereby accepted and the above-identified patent is reinstated as of the mail date of this decision.

The rules and statutory provisions governing the operations of the U.S. Patent and Trademark Office require payment of a fee on filing each petition under 37 CFR § 1.378(b). In this instance, the fees required are \$7,400 for the maintenance fee due at 11.5 years and \$1,700 for the delayed payment of the fee due at 11.5 years. The total fees owed are \$9,100. Petitioner submitted a payment of \$9,100 on June 21, 2017.

Telephone inquiries concerning this matter may be directed to Vanitha Elgart at 571.272.7395.

/VANITHA ELGART/
Vanitha Elgart
Petitions Examiner
Office of Petitions

Office of Petitions: Routing Sheet



Application No. 10/323,170

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

GRANTED

DISMISSED

DENIED

Office of Petitions: Decision Count Sheet

Mailing Month

Application No.

10323170



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

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

Deciding Official:

ELGART, VANITHA

Count (1) - Palm Credit

10/323,170

Decision: GRANT

FINANCE WORK NEEDED

Select Check Box for YES



Decision Type: 533 - 37 CFR 1.378(c) - TO ACCEPT UNINTENTIONAL DEI



Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

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

Printed on:



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/323,170	12/18/2002	Chad Williams	P-1826

CONFIRMATION NO. 7537

POWER OF ATTORNEY NOTICE

Charles J. Prescott, P.A.
Suite 115
2033 Wood Street
Sarasota, FL 34237



Date Mailed: 02/08/2018

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/18/2018.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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.

/nrhayden/



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/323,170	12/18/2002	Chad Williams	008849.00026

CONFIRMATION NO. 7537

POA ACCEPTANCE LETTER

22908
BANNER & WITCOFF, LTD.
TEN SOUTH WACKER DRIVE
SUITE 3000
CHICAGO, IL 60606



Date Mailed: 02/08/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/18/2018.

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

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.

/nrhayden/

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

PATENT - POWER OF ATTORNEY OR REVOCAION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Patent Number	6830423
	Issue Date	December 14, 2004
	First Named Inventor	Chad Williams
	Title	Personal Mobility Vehicle Lift
	Attorney Docket No.	008849.00026

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

 A Power of Attorney is submitted herewith.

OR

 I hereby appoint Practitioner(s) associated with the Customer Number identified in the box at right as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

22908

OR

 I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) with respect to the patent 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 patent to:

 The address associated with the above-identified Customer Number.

OR

 The address associated with the Customer Number identified in the box at right:

OR

 Firm or

Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the:

 Applicant.

OR

 Patent owner.

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

SIGNATURE of Applicant or Patent Owner

Signature

Date

January 18, 2018

Name

William Pease

Telephone

941-351-2776

Title and Company

Chief Financial Officer, Harmer Mobility, LLC

NOTE: Signatures of all the applicants or patent owners of the entire interest or their representative(s) are required. If more than one signature is required, submit multiple forms, check the box below, and identify the total number of forms submitted in the blank below. A total of 1 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 update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 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.

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<i>In re</i> the Patent of:	Atty. Docket No.:	008849.00026	
Chad Williams, <i>et al.</i>			
Serial No.:	10/323,170	Patent No.:	6,830,423
Filed:	December 18, 2001	Issue Date:	December 14, 2004
For:	Personal Mobility Vehicle Lift	Confirmation No.:	7511

RENEWED PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF 3RD MAINTENANCE FEE

U.S. Patent and Trademark Office
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

In response to the communication dated October 18, 2017 dismissing the petition to accept the unintentionally delayed payment of 3rd maintenance fee, applicant hereby submits the following:

1. Renewed petition, signed by the attorney of record
2. Power of attorney
3. 3.73(c) statement

Applicant requests any necessary extension of time for the submission of this paper. If any fees are required or an overpayment is made, the Commissioner is authorized to debit or credit our deposit account 19-0733.

Respectfully submitted,
BANNER & WITCOFF, LTD.

Dated: January 18, 2018

By: /Kevin C. Keenan/

Kevin C. Keenan
Registration No. 65,490

10 South Wacker Drive
Suite 3000
Chicago, IL 60606
Tel: 312.463.5000
Fax: 312.463.5001

Electronic Patent Application Fee Transmittal

Application Number:	10323170
Filing Date:	18-Dec-2002
Title of Invention:	PERSONAL MOBILITY VEHICLE LIFT
First Named Inventor/Applicant Name:	Chad Williams
Filer:	Kevin Cassidy Keenan/Stephanie Bodamer
Attorney Docket Number:	P-1826

Filed as Large 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:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	1251	1	200	200
Miscellaneous:				
Total in USD (\$)				200

Electronic Acknowledgement Receipt

EFS ID:	31542882
Application Number:	10323170
International Application Number:	
Confirmation Number:	7537
Title of Invention:	PERSONAL MOBILITY VEHICLE LIFT
First Named Inventor/Applicant Name:	Chad Williams
Correspondence Address:	Charles J. Prescott, P.A. - Suite 115 2033 Wood Street Sarasota FL 34237 US 9419574208 cj.prescott@verizon.net
Filer:	Kevin Cassidy Keenan/Stephanie Bodamer
Filer Authorized By:	Kevin Cassidy Keenan
Attorney Docket Number:	P-1826
Receipt Date:	18-JAN-2018
Filing Date:	18-DEC-2002
Time Stamp:	17:55:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$200

RAM confirmation Number	011918INTEFSW00005323190733
Deposit Account	190733
Authorized User	Kevin Keenan

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

- 37 CFR 1.16 (National application filing, search, and examination fees)
- 37 CFR 1.17 (Patent application and reexamination processing fees)
- 37 CFR 1.19 (Document supply fees)
- 37 CFR 1.20 (Post Issuance fees)
- 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73	Assignee_statement_18939825.pdf	19986 c609ef2f04e9756064c38ee6d39d85dd42c0dcaa	no	1
Warnings:					
Information:					
2	Petition for review by the Office of Petitions	Petition.pdf	74898 ad3c3caef449d96621b15d5105c9c207c1d6aab2e	no	3
Warnings:					
Information:					
3	Power of Attorney	ExecutedPOA.PDF	557424 88b2b8ff6d7f7a95aaf0f90f703a07155de5bbfb	no	2
Warnings:					
Information:					
4	Petition for review by the Office of Petitions	transmittal.pdf	18066 f98fbd72582d32d009b0e6421d6b0293e78d69e9	no	1
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30737 221569dc72604b0744212265a43a02906ebf7e73	no	2
Warnings:					
Information:					

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Harmar Mobility, LLC

Application No./Patent No.: 6,830,423 Filed/Issue Date: December 14, 2004

Titled: PERSONAL MOBILITY VEHICLE LIFT

Harmar Mobility, LLC, a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- 1. the assignee of the entire right, title, and interest in;
 - 2. an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or
 - 3. the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)
- the patent application/patent identified above, by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Chad Williams and Jeff Duval To: Chadco Enterprises, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 015263, Frame 0621, or for which a copy thereof is attached.

2. From: Chadco Enterprises, Inc. To: Harmar Mobility, LLC
The document was recorded in the United States Patent and Trademark Office at
Reel 016686, Frame 0486, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Kevin C. Keenan/
Signature

January 18, 2018
Date

Kevin C. Keenan
Printed or Typed Name

Attorney for Assignee
Title

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

Patent Number	Issue Date (YYYY-MM-DD)	Application Number	Filing Date (YYYY-MM-DD)	Docket Number (if applicable)
6830423	2004-12-14	10323170	2002-12-18	008849.00026\US

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

SMALL ENTITY

Patentee claims, or has previously claimed, small entity status. See 37 CFR 1.27.

LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g)

NOT Small Entity

	Fee	Code
<input type="radio"/>	3 ½ year	(1551)
<input type="radio"/>	7 ½ year	(1552)
<input checked="" type="radio"/>	11 ½ year	(1553)

Small Entity

	Fee	Code
<input type="radio"/>	3 ½ year	(2551)
<input type="radio"/>	7 ½ year	(2552)
<input type="radio"/>	11 ½ year	(2553)

PETITION FEE

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

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

The appropriate maintenance fee must be submitted with this petition.

STATEMENT

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

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

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

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

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

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

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

Patent Practitioner

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature

Signature	/Kevin C. Keenan/	Date (YYYY-MM-DD)	2018-01-18
Name	Kevin C. Keenan	Registration Number	65490

This collection of information is required by 37 CFR 1.378(b). 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 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. This form can only be used when in conjunction with EFS-Web. If this form is mailed to the USPTO, it may cause delays in reinstating the patent.**

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

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 02/23/2018

GARIAS	ADJ #00000001	Mailroom Dt: 01/18/2018		
	Seq No: 5323	Sales Acctg Dt: 01/19/2018	190733	10323170
	01 FC : 1251	200.00 CR		

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 02/23/2018

GARIAS SALE #00000002 Mailroom Dt: 01/18/2018 10323170
01 FC : 1251 200.00 DA

TC2800

JLIF

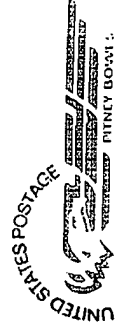
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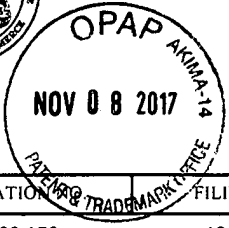
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/323,170	12/18/2002	Chad Williams	P-1826	7537

7590 10/18/2017
 Charles J. Prescott, P.A.
 Suite 115
 2033 Wood Street
 Sarasota, FL 34237

EXAMINER

HESS, DOUGLAS A

ART UNIT	PAPER NUMBER
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3651

MAIL DATE	DELIVERY MODE
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10/18/2017

PAPER

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

In re Patent No.: 6,830,423 :
Issue Date: December 14, 2004 :
Application No.: 10/323,170 : DECISION ON PETITION
Filed: December 18, 2002 :
Title: PERSONAL MOBILITY VEHICLE :
LIFT :

This is a decision on the petition filed under 37 CFR 1.378(b), filed June 21, 2017, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The petition under 37 CFR §1.378(b) is **DISMISSED**.

Any request for reconsideration under 37 CFR 1.378(d) may be filed within TWO (2) MONTHS from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. This is **not** a final agency action within the meaning of 5 USC 704.

A maintenance fee payment is required in a patent at 3.5 years, 7.5 years, and 11.5 years from the date of issuance. A petition may be filed to accept the unintentionally delayed payment of a maintenance fee in the event that a maintenance fee is not timely paid.

A petition to accept the unintentionally delayed payment of a maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) must be accompanied by: (1) a statement that the delay was unintentional; (2) payment of the appropriate maintenance fee, unless previously submitted; (3) payment of the petition fee set forth in 37 CFR 1.17(m). Where there is a question as to whether the delay in payment of the maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) was unintentional, the Director may require additional information. This change went into effect on December 18, 2013, the effective date of the Patent Law Treaties Implementation Act, and applies to this petition. The petition lacks item (1) above.

Regarding item (1), the statement of unintentional delay is not proper. Petitioner's attention is directed to 37 CFR 1.33(b), which states:

(b) *Amendments and other papers.* Amendments and other papers, except for written assertions pursuant to § 1.27(c)(2)(iii) or (c)(2)(iv), filed in the application must be signed by:

- (1) A patent practitioner of record;

Art Unit: OPET

(2) A patent practitioner not of record who acts in a representative capacity under the provisions of § 1.34; or

(3) The applicant (§ 1.42). Unless otherwise specified, all papers submitted on behalf of a juristic entity must be signed by a patent practitioner.

An unsigned amendment (or other paper) or one not properly signed by a person having authority to prosecute the application is not entered. This applies, for instance, where the amendment (or other paper) is signed by only one of two applicants/patentees and the one signing has not been given a power of attorney by the other applicant/patentee or where the amendment (or other paper) is signed by an individual who is not on record as having authority to act on behalf of an assignee.

A petition submitted on behalf of a juristic entity must be signed by a patent practitioner in accordance with current 37 CFR 1.33(b)(3).

Therefore, as the petition is not signed by all the inventors and the record herein fails to disclose that petitioner herein was ever given a power of attorney to act on behalf of the joint patentee, or that he is an assignee of the entire interest and has complied with the provisions of 37 CFR 3.73 (see form PTO/96), the petition is considered to not contain a proper statement of unintentional delay.

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

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

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

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

By internet: EFS-Web¹

¹ <http://portal.uspto.gov> (for help using EFS-Web call the Patent Electronic Business Center at (866) 217-9197).

Application/Control Number: 10/323,170

Page 3

Art Unit: OPET

Telephone inquiries concerning this matter should be directed to Vanitha Elgart at (571) 272-7395.

/VANITHA ELGART/

Vanitha Elgart

Petitions Examiner

Office of Petitions



UNITED STATES PATENT AND TRADEMARK OFFICE

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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.
10/323,170	12/18/2002	Chad Williams	P-1826	7537
	7590	10/18/2017	EXAMINER	
Charles J. Prescott, P.A. Suite 115 2033 Wood Street Sarasota, FL 34237			HESS, DOUGLAS A	
			ART UNIT	PAPER NUMBER
			3651	
			MAIL DATE	DELIVERY MODE
			10/18/2017	PAPER

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

In re Patent No.: 6,830,423 :
Issue Date: December 14, 2004 :
Application No.: 10/323,170 : **DECISION ON PETITION**
Filed: December 18, 2002 :
Title: PERSONAL MOBILITY VEHICLE :
LIFT :

This is a decision on the petition filed under 37 CFR 1.378(b), filed June 21, 2017, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The petition under 37 CFR §1.378(b) is **DISMISSED**.

Any request for reconsideration under 37 CFR 1.378(d) may be filed within **TWO (2) MONTHS** from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. This is **not** a final agency action within the meaning of 5 USC 704.

A maintenance fee payment is required in a patent at 3.5 years, 7.5 years, and 11.5 years from the date of issuance. A petition may be filed to accept the unintentionally delayed payment of a maintenance fee in the event that a maintenance fee is not timely paid.

A petition to accept the unintentionally delayed payment of a maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) must be accompanied by: (1) a statement that the delay was unintentional; (2) payment of the appropriate maintenance fee, unless previously submitted; (3) payment of the petition fee set forth in 37 CFR 1.17(m). Where there is a question as to whether the delay in payment of the maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) was unintentional, the Director may require additional information. This change went into effect on December 18, 2013, the effective date of the Patent Law Treaties Implementation Act, and applies to this petition. The petition lacks item (1) above.

Regarding item (1), the statement of unintentional delay is not proper. Petitioner’s attention is directed to 37 CFR 1.33(b), which states:

(b) *Amendments and other papers*. Amendments and other papers, except for written assertions pursuant to § 1.27(c)(2)(iii) or (c)(2)(iv), filed in the application must be signed by:

- (1) A patent practitioner of record;

Art Unit: OPET

(2) A patent practitioner not of record who acts in a representative capacity under the provisions of § 1.34; or

(3) The applicant (§ 1.42). Unless otherwise specified, all papers submitted on behalf of a juristic entity must be signed by a patent practitioner.

An unsigned amendment (or other paper) or one not properly signed by a person having authority to prosecute the application is not entered. This applies, for instance, where the amendment (or other paper) is signed by only one of two applicants/patentees and the one signing has not been given a power of attorney by the other applicant/patentee or where the amendment (or other paper) is signed by an individual who is not on record as having authority to act on behalf of an assignee.

A petition submitted on behalf of a juristic entity must be signed by a patent practitioner in accordance with current 37 CFR 1.33(b)(3).

Therefore, as the petition is not signed by all the inventors and the record herein fails to disclose that petitioner herein was ever given a power of attorney to act on behalf of the joint patentee, or that he is an assignee of the entire interest and has complied with the provisions of 37 CFR 3.73 (see form PTO/96), the petition is considered to not contain a proper statement of unintentional delay.

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By fax: (571) 273-8300
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Application/Control Number: 10/323,170

Page 3

Art Unit: OPET

Telephone inquiries concerning this matter should be directed to Vanitha Elgart at (571) 272-7395.

/VANITHA ELGART/

Vanitha Elgart

Petitions Examiner

Office of Petitions

Office of Petitions: Routing Sheet



Application No. 10/323,170

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

GRANTED

DISMISSED

DENIED

Office of Petitions: Decision Count Sheet

Mailing Month

Application No.

10323170



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

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

Deciding Official:

ELGART, VANITHA

Count (1) - Palm Credit

10/323,170

Decision: DISMISSED

FINANCE WORK NEEDED

Select Check Box for YES



Decision Type: 533 - 37 CFR 1.378(c) - TO ACCEPT UNINTENTIONAL DEI



Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED

Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

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

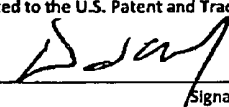


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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))		Docket Number (Optional) HARMAR.1826
Page 1 of 3		
<p>Mall to: Mail Stop Petition Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Fax: (571) 273-8300</p>		
<p>06/27/2017 DALLEN 02808336 683043 01 FC:1599 9138.00 DP</p>		
<p>NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.</p>		
Patent No. <u>6,830,423</u>	Application Number <u>10/323,170</u>	
Issue Date <u>December 14, 2004</u>	Filing Date <u>December 18, 2002</u>	
<p>CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).</p>		
<p>Also complete the following information, if applicable.</p>		
<p>The above-identified patent</p>		
<p><input type="checkbox"/> is a reissue of original Patent No. _____ original issue date _____</p> <p>original application number _____</p> <p>original filing date _____</p>		
<p><input type="checkbox"/> resulted from the entry into the U.S. under 35 U.S.C. 371 of international application _____</p> <p>filed on _____</p>		
<p>CERTIFICATE OF MAILING (37 CFR 1.8(a))</p>		
<p>I hereby certify that this paper (* along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.</p>		
<p><u>June 21, 2017</u></p> <p>Date</p>	<p></p> <p>Signature</p> <p><u>David A. Frijouf, 50,422</u></p> <p>Typed or Printed Name of Person Signing Certificate</p>	

[page 1 of 3]

This collection of information is required by 37 CFR 1.378(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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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.

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

Page 2 of 3

1. SMALL ENTITY

Patentee asserts, or has previously asserted, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MICRO ENTITY

Patentee certifies, or has previously certified, micro entity status. See 37 CFR 1.29
Form PTO/SB/LSA or 8 or equivalent must either be enclosed or have been submitted previously.

4. LOSS OF ENTITLEMENT TO MICRO ENTITY STATUS

Patentee is no longer entitled to micro entity status. See 37 CFR 1.29(i).

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

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

Undiscounted			Small Entity			Micro Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)	Amount	Fee	(Code)
<input type="checkbox"/> \$ _____	3½ yr fee	(1551)	<input type="checkbox"/> \$ _____	3½ yr fee	(2551)	<input type="checkbox"/> \$ _____	3½ yr fee	(3551)
<input type="checkbox"/> \$ _____	7½ yr fee	(1552)	<input type="checkbox"/> \$ _____	7½ yr fee	(2552)	<input type="checkbox"/> \$ _____	7½ yr fee	(3552)
<input checked="" type="checkbox"/> \$ 7,400.00	11½ yr fee	(1553)	<input type="checkbox"/> \$ _____	11½ yr fee	(2553)	<input type="checkbox"/> \$ _____	11½ yr fee	(3553)

MAINTENANCE FEE BEING SUBMITTED \$ 7,400.00

6. PETITION FEE

The petition fee required by 37 CFR 1.17(m) of:

\$ 1,700.00 Undiscounted (Fee Code 1558); or

\$ _____ Small Entity (Fee Code 2558)

must be paid as a condition of accepting an unintentionally delayed payment of a maintenance fee. (Note: There is currently no micro entity amount for the petition fee.)

PETITION FEE BEING SUBMITTED \$ 1,700.00

7. MANNER OF PAYMENT

Enclosed is a check for the sum of \$ _____

Please charge Deposit Account No. _____ the sum of \$ _____

Payment by credit card. Form PTO-2038 is attached.

Payment made via EFS-Web.

8. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

The Director is hereby authorized to charge any maintenance fee or petition deficiency to Deposit Account No. 06-2120

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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.

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

Page 3 of 3

9. OVERPAYMENT

As to any overpayment made, please

Credit to Deposit Account No. 06-2120

OR

Send refund check

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.

10. STATEMENT

The delay in payment of the maintenance fee for this patent was unintentional.

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

June 20, 2017

Date

Signature(s) of Petitioner(s)

Joe Alette, Hammar Mobility LLC, VP of Operations

Typed or Printed Name(s)

Registration Number, if applicable

Telephone Number

Address

Address

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

12. ENCLOSURES

- Maintenance Fee Payment
- Petition fee under 37 CFR 1.17(m) (fee for filing the maintenance fee petition)
-

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 02/23/2018

GARIAS	SALE #00000001	Mailroom Dt:	06/21/2017	10323170
	01	FC : 1553	7,400.00	OP
	02	FC : 1558	1,700.00	OP

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 02/23/2018

GARIAS	ADJ #00000002	Mailroom Dt: 06/21/2017	
	Seq No: 6	Sales Acctg Dt: 06/27/2017	10323170
	01 FC : 1599		-9100.00 OP

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 10/323,170	Filing Date 12/18/2002	<input type="checkbox"/> To be Mailed
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APPLICATION AS FILED – PART I			OTHER THAN SMALL ENTITY				
	(Column 1)	(Column 2)	SMALL ENTITY <input checked="" type="checkbox"/>	OR			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A			N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A			N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =		OR	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =			X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II					OTHER THAN SMALL ENTITY				
	(Column 1)	(Column 2)	(Column 3)		SMALL ENTITY	OR			
AMENDMENT	02/11/2008	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 74	Minus ** 74	= 0	X \$25 =	0		X \$ =	
	Independent (37 CFR 1.16(h))	* 11	Minus *** 11	= 0	X \$105 =	0		X \$ =	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						OR		
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

	(Column 1)	(Column 2)	(Column 3)		SMALL ENTITY	OR			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus **	=	X \$ =			X \$ =	
	Independent (37 CFR 1.16(h))	*	Minus ***	=	X \$ =			X \$ =	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))								
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
 /WANDA ANTHONY/


This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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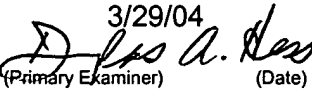
***RETURN TO FMF - LOCATION 7540** *Pre Edit*

QUERY CONTROL FORM			RTIS USE ONLY	
Application No. <u>10/323170</u>	Prepared by <u>PRS</u>	Tracking Number		
Examiner-GAU <u>Ness-3651</u>	Date <u>5-10-04</u>	Week Date		
No. of queries <u>1 CA</u>				

JACKET			
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other - <i>Issue class form</i>

SPECIFICATION a. Page Missing b. Text Continuity c. Holes through Data d. Other Missing Text e. Illegible Text f. Duplicate Text g. Brief Description h. Sequence Listing i. Appendix j. Amendments k. Other CLAIMS a. Claim(s) Missing b. Improper Dependency c. Duplicate Numbers d. Incorrect Numbering e. Index Disagrees f. Punctuation g. Amendments h. Bracketing i. Missing Text j. Duplicate Text k. Other	MESSAGE <i>Issue Classification: There is no Issue Classification or Index of Claims forms for this application. Please provide</i> <p align="center"><i>Thanks</i></p>
	RESPONSE <i>see attached</i> <p align="right">initials <i>PRS</i></p> <p align="right">initials <i>DM</i></p>

Issue Classification 	Application No. 10/323,170	Applicant(s) WILLIAMS ET AL.	
	Examiner Douglas A Hess	Art Unit 3651	

ISSUE CLASSIFICATION											
ORIGINAL				CROSS REFERENCE(S)							
CLASS	SUBCLASS			CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)						
414	462			212	180						
INTERNATIONAL CLASSIFICATION											
B	6	0	P	9/00							
				/							
				/							
				/							
				/							
(Assistant Examiner) (Date)				DOUGLAS HESS PRIMARY EXAMINER 3/29/04  (Primary Examiner) (Date)				Total Claims Allowed: 12			
(Legal Instruments Examiner) (Date)								O.G. Print Claim(s)		O.G. Print Fig.	
				1		1					


<input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant										<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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***RETURN TO FMF - LOCATION 7540** *Pre Edit*

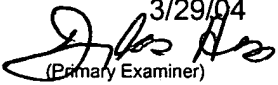
QUERY CONTROL FORM		RTIS USE ONLY	
Application No. <u>10/323190</u>	Prepared by <u>BRS</u>	Tracking Number	
Examiner-GAU <u>Ness-3651</u>	Date <u>5-10-04</u>	Week Date	
	No. of queries <u>1 CA</u>		

JACKET			
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other - <i>Issue class form</i>

SPECIFICATION a. Page Missing b. Text Continuity c. Holes through Data d. Other Missing Text e. Illegible Text f. Duplicate Text g. Brief Description h. Sequence Listing i. Appendix j. Amendments k. Other CLAIMS a. Claim(s) Missing b. Improper Dependency c. Duplicate Numbers d. Incorrect Numbering e. Index Disagrees f. Punctuation g. Amendments h. Bracketing i. Missing Text j. Duplicate Text k. Other	MESSAGE <i>Issue Classification: There is no Issue Classification or Index of Claims forms for this application. Please provide</i> <p align="center"><i>Thanks</i></p>
	RESPONSE <i>see attached</i> <p align="right"><i>D76</i> initials</p>

Issue Classification 	Application No. 10/323,170	Applicant(s) WILLIAMS ET AL.	
	Examiner Douglas A Hess	Art Unit 3651	

ISSUE CLASSIFICATION										
ORIGINAL					CROSS REFERENCE(S)					
CLASS	SUBCLASS				CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
414	462				212	180				
INTERNATIONAL CLASSIFICATION										
B	6	0	P	9/00						
				/						
				/						
				/						
				/						

(Assistant Examiner) (Date)	DOUGLAS HESS PRIMARY EXAMINER  3/29/04 (Primary Examiner) (Date)	Total Claims Allowed: 12 <table style="width: 100%;"> <tr> <td style="text-align: center;">O.G. Print Claim(s)</td> <td style="text-align: center;">O.G. Print Fig.</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> </table>	O.G. Print Claim(s)	O.G. Print Fig.	1	1
O.G. Print Claim(s)	O.G. Print Fig.					
1	1					
(Legal Instruments Examiner) (Date)						

<input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original
	1		31		61		91
	2		32		62		92
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***RETURN TO FMF - LOCATION 7540** *Pre Edit*

QUERY CONTROL FORM		RTIS USE ONLY	
Application No. <u>101323140</u>	Prepared by <u>BRS</u>	Tracking Number	
Examiner-GAU <u>Ness - 3651</u>	Date <u>5-10-04</u>	Week Date	
	No. of queries <u>1</u> (CA)		

JACKET			
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other - <i>Issue Classification</i>

SPECIFICATION

- a. Page Missing
- b. Text Continuity
- c. Holes through Data
- d. Other Missing Text
- e. Illegible Text
- f. Duplicate Text
- g. Brief Description
- h. Sequence Listing
- i. Appendix
- j. Amendments
- k. Other

CLAIMS

- a. Claim(s) Missing
- b. Improper Dependency
- c. Duplicate Numbers
- d. Incorrect Numbering
- e. Index Disagrees
- f. Punctuation
- g. Amendments
- h. Bracketing
- i. Missing Text
- j. Duplicate Text
- k. Other

MESSAGE *Issue Classification: There is no Issue Classification or Index of Claims forms for this application. Please provide*

Thanks

initials *BRS*

RESPONSE _____

initials

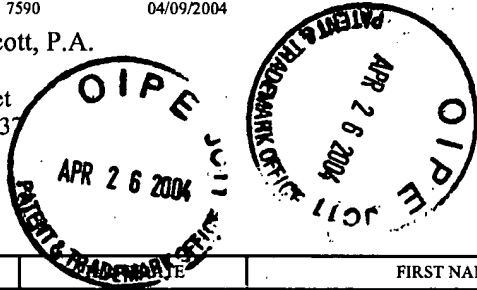
PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
 or **Fax** (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 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: Legibly mark-up with any corrections or use Block 1)

7590 04/09/2004
 Charles J. Prescott, P.A.
 Suite 115
 2033 Wood Street
 Sarasota, FL 34237



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Certificate of Mailing or Transmission

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

Charles J. Prescott	(Depositor's name)
<i>Charles J. Prescott</i>	(Signature)
4.22.04	(Date)

APPLICATION NO.	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/323,170	Chad Williams	P-1826	7537

TITLE OF INVENTION: PERSONAL MOBILITY VEHICLE LIFT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$0	\$665	07/09/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
HESS, DOUGLAS A	3651	414-462000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

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

Charles J. Prescott
 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. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.
 (A) NAME OF ASSIGNEE: **Chadco Enterprises, Inc.**
 (B) RESIDENCE: (CITY and STATE OR COUNTRY) **Sarasota, Florida**

Please check the appropriate assignee category or categories (will not be printed on the patent); individual corporation or other private group entity government

4a. The following fee(s) are enclosed:
 Issue Fee
 Publication Fee
 Advance Order - # of Copies 10

4b. Payment of Fee(s):
 A check in the amount of the fee(s) is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 16-2454 (enclose an extra copy of this form).

Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature) *Charles Prescott* (Date) 4.22.04

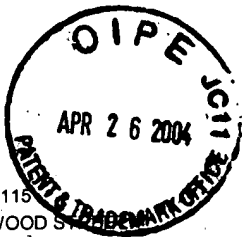
NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.**

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04/27/2004 SHINASS2 0000067 10323170
 01 FC:2501 665.00 OP
 02 FC:8001 30.00 OP

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LAW OFFICES OF
CHARLES J. PRESCOTT, P.A.
A PROFESSIONAL ASSOCIATION

SUITE 115
2033 WOOD ST
SARASOTA, FLORIDA 34237
(941) 957-4208
FAX (941) 957-4210
e-mail: cj.prescott@verizon.net
website: www.patentsprescott.com

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AND RELATED
MATTERS

April 22, 2004

MAIL STOP ISSUE FEE
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Patent Application Serial No. 10/323,170
Title: Personal Mobility Vehicle Lift
Inventor: Chad Williams
Group Art Unit: 3651
Confirmation No. 7537

Sir:

In response to the Notice of Allowance and Issue Fee Due mailed April 9, 2004, please enter the enclosed Issue Fee Transmittal (PTOL85) in the file of this application.

My check in the amount of Six Hundred Ninety Five Dollars (\$695.00) as payment for the issue fee and advance order of ten (10) copies of the prospective patent is enclosed. You are authorized to charge any underpayment, or credit any overpayment, to Deposit Account No. 16-2454. Thank you for your cooperation in this matter.

Sincerely,



Charles J. Prescott

CJP:mm
Enclosures
cc: Chadco Enterprises, Inc.

CERTIFICATE OF MAILING

I HEREBY CERTIFY that this cover letter, form PTOL-85 and check is being deposited in the U.S. Postal Service, first class postage paid, addressed to MAIL STOP ISSUE FEE, Commissioner for Patents, P O Box 1450, Alexandria, Virginia, 22313-1450, this April 22, 2004.



Charles J. Prescott



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

7590 04/09/2004
Charles J. Prescott, P.A.
Suite 115
2033 Wood Street
Sarasota, FL 34237

EXAMINER

HESS, DOUGLAS A

ART UNIT PAPER NUMBER

3651

DATE MAILED: 04/09/2004

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
10/323,170 12/18/2002 Chad Williams P-1826 7537

TITLE OF INVENTION: PERSONAL MOBILITY VEHICLE LIFT

Table with 6 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE, PUBLICATION FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional YES \$665 \$0 \$665 07/09/2004

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 REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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

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

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

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

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

[] Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. 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.

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

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 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: Legibly mark-up with any corrections or use Block 1)

7590 04/09/2004

Charles J. Prescott, P.A.
 Suite 115
 2033 Wood Street
 Sarasota, FL 34237

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Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/323,170	12/18/2002	Chad Williams	P-1826	7537

TITLE OF INVENTION: PERSONAL MOBILITY VEHICLE LIFT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$0	\$665	07/09/2004

EXAMINER	ART UNIT	CLASS-SUBCLASS
HESS, DOUGLAS A	3651	414-462000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list (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.</p> <p>1 _____</p> <p>2 _____</p> <p>3 _____</p>
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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. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent); individual corporation or other private group entity government

<p>4a. The following fee(s) are enclosed:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s):</p> <p><input type="checkbox"/> A check in the amount of the fee(s) is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
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Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

<p>(Authorized Signature) _____</p>	<p>(Date) _____</p>
<p>NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.</p> <p>This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.</p> <p>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.</p>	

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

Charles J. Prescott, P.A.
Suite 115
2033 Wood Street
Sarasota, FL 34237

EXAMINER

HESS, DOUGLAS A

ART UNIT PAPER NUMBER

3651

DATE MAILED: 04/09/2004

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

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

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

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (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 (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Notice of Allowability

Application No. 10/323,170	Applicant(s) WILLIAMS ET AL.	
Examiner Douglas A Hess	Art Unit 3651	

-- 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 amendment filed 3-17-04.
- 2. The allowed claim(s) is/are 1-12.
- 3. The drawings filed on 18 December 2002 are accepted by the Examiner.
- 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 - 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
- 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
- 4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
- 5. Notice of Informal Patent Application (PTO-152)
- 6. Interview Summary (PTO-413),
Paper No./Mail Date _____
- 7. Examiner's Amendment/Comment
- 8. Examiner's Statement of Reasons for Allowance
- 9. Other _____


Douglas A Hess
Primary Examiner
Art Unit: 3651
3-29-04

BEST AVAILABLE COPY

ISSUE SLIP STAPLE AREA (for additional cross-references)

ORIGINAL		ISSUING CLASSIFICATION		CROSS REFERENCE(S)			
CLASS	SUBCLASS	CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
414	462	212	180				
INTERNATIONAL CLASSIFICATION							
BCOP	9100						

^ Continued on Issue Slip Inside File Jacket

INDEX OF CLAIMS

..... Rejected - (Through numeral) ... Canceled
 Allowed + Restricted
 Non-elected N Appeal
 Interference I Objected O

Claim	Date	Claim	Date	Claim	Date
Final Original		Final Original		Final Original	
1	12/15/13	51		101	
2	12/15/13	52		102	
3	12/15/13	53		103	
4	12/15/13	54		104	
5	12/15/13	55		105	
6	12/15/13	56		106	
7	12/15/13	57		107	
8	12/15/13	58		108	
9	12/15/13	59		109	
10	12/15/13	60		110	
11	12/15/13	61		111	
12	12/15/13	62		112	
13		63		113	
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50		100		150	

If more than 150 claims or 9 actions staple additional sheet here

935-03-03
2016 01/03/03

104610-8-PTO
10/22/170
12/18/02

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PATENT NUMBER and
ISSUE DATE

U.S. UTILITY Patent Application

APPL NUM	FILING DATE	CLASS	SUBCLASS	GAU	EXAMINER
10323170	12/18/2002	414	402	365	Hess Hess

**APPLICANTS: Williams Chad; DuVal Jeff
A62 365

**CONTINUING DATA VERIFIED: NONE. DM

** FOREIGN APPLICATIONS VERIFIED:

PG-PUB	DO NOT PUBLISH <input checked="" type="checkbox"/>	RESCIND <input type="checkbox"/>	
Foreign priority claimed	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	ATTORNEY DOCKET NO	
35 USC 119 conditions met	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	P-1826	
Verified and Acknowledged Examiners's initials		DM	
TITLE : Personal mobility vehicle lift			

U.S. DEPT. OF COMM. PAT. & TM-PTO-436L (Rev. 12-94)

NOTICE OF ALLOWANCE MAILED		CLAIMS ALLOWED	
Assistant Examiner		Total Claims: 12	Print Claim for O.G. 1
DOUGLAS HESS PRIMARY EXAMINER		DRAWING	
D. Hess Primary Examiner 3-29-04		Sheets Drwg: 4	Figs Drwg: 5
PREPARED FOR ISSUE		Print Fig: 1	
Application Examiner		WARNING: The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.	
<input type="checkbox"/> TERMINAL DISCLAIMER		FILED WITH: <input type="checkbox"/> DISK (CRF) <input type="checkbox"/> CD-ROM (Attached in pocket on right inside flap)	

SEARCH

Class	Sub.	Date	Exmr.
414	462 ^{SS}	↓	↓
	539		
	540		
	541		
	542		
	543		
212	180 ^x	↓	↓
	224		
	293		
	12/9/03		<i>[Signature]</i>
updated search		3-29-04	<i>[Signature]</i>

SEARCH NOTES

(List databases searched. Attach search strategy inside.)

Date	Exmr.

INTERFERENCE SEARCHED

Class	Sub.	Date	Exmr.
searched also	class	3-29-04	<i>[Signature]</i>

CHARLES J. PRESCOTT, P.A.
2033 Wood Street, Suite 115
Sarasota, Florida 34237
(941) 957-4208
Fax: (941) 957-4210

Facsimile Cover Sheet

Date: 3-17-04

Number of pages to follow: 10

To: 703 872-9306 Comm. for Patent

Attn: Examiner Douglas Hess

From: Chuck Prescott

Comments:

*Please enter and
deliver the following
amendment in the
Official file.*

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e-mail: cj.prescott@verizon.net
website: www.patentsprescott.com

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March 17, 2004

Via Facsimile

MAIL STOP AMENDMENT NO FEE
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Re: Applicant: Chad Williams
Serial No. 10/323,170
Filed: 12/18/2002
For: Personal Mobility Vehicle Lift
Group Art Unit: 3651
Examiner: Douglas A. Hess

Sir:

In response to the Examiner's office action mailed December 17, 2003, please enter the enclosed amendment in the official file of this application.

It is my understanding that no fee is required to enter this amendment; however you are authorized to deduct any underpayment from deposit account No. 16-2454.

Thank you for your cooperation in this matter.


Sincerely,


Charles J. Prescott

CJP:mm
Enclosures
cc: Mr. Chad Williams

CERTIFICATE OF MAILING

I HEREBY CERTIFY that this correspondence is being facsimile transmitted to (703) 872-9306 addressed to the Honorable Commissioner for Patents, Box No Fee Amendment, P. O. Box 1450, Alexandria, VA 22313-1450 this March 17, 2004.


Charles J. Prescott

Appl 10/323,170
Amdt dated March 17, 2004
Reply to Office Action of December 17, 2003

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MAR 17 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/323,170
Applicant : Chad Williams
Filed : 12/18/2002
Title : Personal Mobility Vehicle Lift

OFFICIAL

TC/A.U. : 3651
Examiner : Douglas A. Hess

Docket No. : P-826

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

AMENDMENT

Sir:

In response to the Office Action of December 17, 2003, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 8 of this paper.

Appl 10/323,170
Amdt dated March 17, 2004
Reply to Office Action of December 17, 2003

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

Listing of Claims:

Claim 1 (currently amended): A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which said PMV lift is rigidly engageable and from which said PMV lift receives substantially total support, said PMV lift comprising:

an elongated ~~laterally extending~~ lifting boom (12) and a drive mechanism (20) connected adjacent a proximal end (22) thereof, said drive mechanism including an elongated flexible lifting cable or belt extending downwardly from a distal end (42) of said lifting boom, said drive mechanism operably connected to a proximal portion of said lifting cable or belt whereby a PMV attachable to a distal end of said lifting cable or belt and may be raised or lowered by operation of said drive mechanism;

an elongated upright stanchion (14) supportively connected at an upper end thereof to the proximal end of said lifting boom, said lifting boom pivotably movable and laterally extending from said stanchion;

an elongated lift support arm (16 or 16') supportively connected at a distal end (28) thereof to a lower end of said stanchion, said lift support arm laterally extending from and positioning said stanchion;

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Amdt dated March 17, 2004
Reply to Office Action of December 17, 2003

a trailer hitch engaging member (38) connectable at a first end thereof to the trailer hitch, a second end of said trailer hitch engaging member connected to a proximal end (34/36) of said lift support arm whereby said ~~PMV lift is substantially fully supported by the trailer hitch~~ provides an only means for supporting said PMV lift;

a rotation stop mounted on said stanchion for limiting rotation of said lifting boom with respect to an upright axis of said stanchion between a first position within the rear of the vehicle whereby the PMV may be lowered or lifted with respect to the floor of the vehicle and a second position behind the vehicle whereby the PMV may be lowered to or lifted from the ground.

Claim 2 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein:
said lifting boom is vertically adjustable on said stanchion.

Claim 3 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein:
said lift support arm is laterally adjustable with respect to said trailer hitch engaging member.

Claim 4 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein the trailer hitch includes a class II or III receiver having a straight rectangular receiving cavity and wherein:

said trailer hitch engaging member has an outside rectangular cross section configuration substantially closely mating within the receiving cavity of the trailer hitch preventing substantial axial rotation of said trailer hitch engaging member while positioned

Appl 10/323,170

Amdt dated March 17, 2004

Reply to Office Action of December 17, 2003

within the trailer hitch thus fully supporting said lift support arm from substantial rotation about a longitudinal axis of the trailer hitch.

Claim 5 (currently amended) A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which said PMV lift is rigidly engageable and from which said PMV lift receives substantially total support, said PMV lift comprising:

an elongated laterally extending lifting boom (12) and a drive mechanism (20) connected adjacent a proximal end (22) thereof, said drive mechanism including an elongated flexible lifting cable or belt (24) extending downwardly from a distal end (42) of said lifting boom, said drive mechanism operably connected to a proximal portion of said lifting cable or belt whereby a PMV attachable to a distal end (26) of said lifting cable or belt and may be raised or lowered by operation of said drive mechanism;

an elongated upright stanchion (14) supportively connected at an upper end thereof to the proximal end of said lifting boom, said lifting boom pivotally movable about a longitudinal axis of, and laterally extending from, said stanchion;

an elongated laterally extending lift support arm (16 or 16') supportively connected at a distal end thereof to a lower end of said stanchion;

a trailer hitch engaging member (38) connectable at a first end (40) thereof to the trailer hitch, a second end (36) of said trailer hitch engaging member connected to a proximal end of said lift support

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Amdt dated March 17, 2004
Reply to Office Action of December 17, 2003

arm whereby said PMV lift is substantially fully supported by the trailer hitch;

said lift support arm laterally extending from a longitudinal axis of the trailer hitch a distance whereby said stanchion is positioned in proximity to a side of the vehicle;

a rotation stop mounted on said stanchion which limits rotation of said lifting boom about an upright axis of said stanchion whereby the distal end of said lifting boom is prevented from movement further from said trailer hitch engaging member than that of said stanchion.

Claim 6 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein:
said lifting boom is vertically adjustable on said stanchion.

Claim 7 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein:
said lift support arm is laterally adjustable with respect to said trailer hitch engaging member.

Claim 8 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein the trailer hitch includes a class II or III receiver having a straight rectangular receiving cavity and wherein:

said trailer hitch engaging member has an outside rectangular cross section configuration substantially closely mating within the receiving cavity of the trailer hitch preventing substantial axial rotation of said trailer hitch engaging member while positioned within the trailer hitch thus fully supporting said lift support arm from substantial rotation about a longitudinal axis of the trailer hitch.

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Claim 9 (currently amended): A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having a trailer hitch rigidly attached to the rear of the vehicle to which said PMV lift is rigidly engageable and from which said PMV lift receives substantially total support, said PMV lift comprising:

a lifting boom (12) having an elongated laterally extending arm (18) and a drive mechanism (20) connected adjacent a proximal end thereof, said drive mechanism including an elongated flexible lifting cable or belt (24) extending therefrom and downwardly from a distal end (42) of said lifting boom, said drive mechanism powering said lifting cable in and out with respect to said lifting boom;

an elongated upright stanchion (14) supportively connected at an upper end thereof to the proximal end (22) of said lifting boom;

an elongated laterally extending (16) lift support arm supportively connected at a distal end (28) thereof to a lower end of said stanchion said stanchion being positioned laterally from the trailer hitch and in proximity to a side of the vehicle;

a trailer hitch engaging member (30) connectable at a first end (40) thereof to the trailer hitch, a second end (36) of said trailer hitch engaging member connected to a proximal end of said lift support arm whereby said PMV lift is substantially fully supported by the trailer hitch;

a rotation stop which limits rotation of said lifting boom about an upright axis of said stanchion whereby substantially further from the trailer

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Amdt dated March 17, 2004
Reply to Office Action of December 17, 2003

~~hitch than a plane passing through the upright axis of said
stanchion and oriented lengthwise to the vehicle length of said lift
support arm.~~

Claim 10 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 9,
wherein:

said lifting boom is vertically adjustable on said stanchion.

Claim 11 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 9,
wherein:

said lift support arm is laterally adjustable with respect to said trailer hitch
engaging member.

Claim 12 (original): A personal mobility vehicle (PMV) lift as set forth in Claim 9,
wherein the trailer hitch includes a class II or III receiver having a straight rectangular
receiving cavity and wherein:

said trailer hitch engaging member has an outside rectangular cross
section configuration substantially closely mating within the
receiving cavity of the trailer hitch preventing substantial axial
rotation of said trailer hitch engaging member while positioned
within the trailer hitch thus fully supporting said lift support arm from
substantial rotation about a longitudinal axis of the trailer hitch.

Appl 10/323,170
Amdt dated March 17, 2004
Reply to Office Action of December 17, 2003

REMARKS

The undersigned wishes to thank Examiner Hess for the courtesy of a telephone interview and review of draft amended claims. Based upon Examiner Hess' comments following his review of the draft amended claims, it would appear as though the case as it now stands is in condition for allowance.

THE REJECTION

Claims 1 to 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'Meara in view of Compton. Summarily, it is submitted that, as with the telephone interview with Examiner Hess, the references of record do not teach a laterally extending lift support arm (16 or 16') which positions the upright stanchion in proximity to the side of the vehicle. Rather, the references of record appear to be all generally oriented along the centerline of the vehicle and the trailer hitch.

Moreover, to limit the stress placed upon the trailer hitch as it is twisted by the invention when loaded with a PMV, rotational movement of the lifting boom (12) about the axis of the upright stanchion (14) is restricted so that the distal end (42) of the lifting boom (12) cannot rotate further out beyond the axis of the stanchion or the side of the vehicle.

These features have been more positively included in the amended claims and it is submitted that this case is now in condition for allowance. However, if Examiner Hess finds any further informalities, he is requested to contact the undersigned directly by telephone to resolve them.

Respectfully submitted,

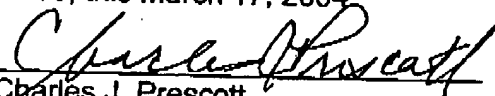


Charles J. Prescott
Reg. No. 30,316
2033 Wood Street, Suite 115
Sarasota, Florida 34237
(941) 957-4208

Appl 10/323,170
Amdt dated March 17, 2004
Reply to Office Action of December 17, 2003

CERTIFICATE OF MAILING

I HEREBY CERTIFY that the foregoing is being facsimile transmitted to the Honorable Commissioner for Patents, (703) 872-9306, this March 17, 2004.


Charles J. Prescott



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/323,170	12/18/2002	Chad Williams	P-1826	7537

7590 12/17/2003
Charles J. Prescott, P.A.
Suite 115
2033 Wood Street
Sarasota, FL 34237

EXAMINER

HESS, DOUGLAS A

ART UNIT PAPER NUMBER

3651

DATE MAILED: 12/17/2003

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

Office Action Summary

Application No.

10/323,170

Applicant(s)

WILLIAMS ET AL.

Examiner

Douglas A. Hess

Art Unit

3651

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 18 December 2002.
- 2a) This action is FINAL.
- 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-12 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-12 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - a) The translation of the foreign language provisional application has been received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) Interview Summary (PTO-413) Paper No(s) _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

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

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

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'Meara (6,095,349) in view of Compton (6,152,675).

O'Meara teaches the claimed invention as shown on the attached marked up copy of his Figure 1. O'Meara teaches a rotation stop that actually does not allow any rotation instead of limiting the rotation of the boom with respect to the stanchion as claimed. Compton discloses a portable hoist for mounting in a vehicle attached hitch that includes a swivel joint between his stanchion and boom. Compton also discloses that it may be

Art Unit: 3651

effective to utilize a well known joint which allows rotation but limits rotation in the range of 180-360 degrees (see Compton column 3, lines 11-13). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the limiting swivel joint of Compton in place of the freely rotating joint of O'Meara based on the application in which the device is used.


Conclusion

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

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas A. Hess whose telephone number is (703)308-3428. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Ellis can be reached on (703)308-2560. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1113.


Douglas A. Hess
Primary Examiner
Art Unit 3651
12/10/03

DAH
December 10, 2003

Notice of References Cited	Application/Control No. 10/323,170	Applicant(s)/Patent Under Reexamination WILLIAMS ET AL.	
	Examiner Douglas A. Hess	Art Unit 3651	Page 1 of 2

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification	
	A	US-4,881,864	11-1989	Amato, Joseph G.	414/543
	B	US-5,540,537	07-1996	Welch, Wilmer M.	414/462
	C	US-5,791,858	08-1998	Sasser, Kenneth W.	414/462
	D	US-6,036,417	03-2000	Weaver, Danny C.	410/7
	E	US-6,042,328	03-2000	McVaugh, Arthur K.	414/546
	F	US-6,089,431	07-2000	Heyworth, Malcolm Edward	224/521
	G	US-6,095,349	08-2000	O'Meara, Richard Vincent	212/180
	H	US-6,138,991	10-2000	Myers, Jr., Robert	254/323
	I	US-6,152,675	11-2000	Compton, Mark	414/543
	J	US-6,202,868	03-2001	Murray, David N.	212/294
	K	US-6,203,044	03-2001	Conaway et al.	280/304.1
	L	US-6,250,483	06-2001	Frommer, John C.	212/180
	M	US-6,386,820	05-2002	Cunningham, Michael W.	414/550

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N				
	O				
	P				
	Q				
	R				
	S				
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	W
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Notice of References Cited

Application/Control No.

10/323,170

Applicant(s)/Patent Under

Reexamination

WILLIAMS ET AL.

Examiner

Douglas A. Hess

Art Unit

3651

Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,478,528	11-2002	Asbury, George N.	414/550
	B	US-6,499,610	12-2002	Spitsbergen, Michael	212/179
	C	US-6,547,507	04-2003	Gest et al.	414/543
	D	US-6,599,078	07-2003	Elder, George Scott	414/542
	E	US-6,578,722	06-2003	Perkins et al.	212/180
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
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	P					
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	S					
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Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>		Complete if Known	
		Application Number	
		Filing Date	
		First Named Inventor	Chad Williams
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	P-1826
Sheet	1	of	1

31046 U.S. PTO
 10/323170
 12/18/02

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (# known)			
DM		4127200		Mann	11-28-78	
DM		4671729		McFarland	6-9-87	
DM		4697975		Lippold	10-6-87	
DM		4705448		Mungons	11-10-87	
DM		4738581		Kuhlman	4-19-88	
DM		4741660		Kent	5-3-88	
DM		5011361		Peterson	4-30-91	
DM		5114120		Bratelt	5-19-92	
DM		5205700		Lin	4-27-93	
DM		5431522		Ross	6-11-95	
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DM		6386410		Van Dusen	5-14-02	

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		Office ³	Number ⁴	Kind Code ⁵ (# known)				

Examiner Signature		Date Considered	12/10/02
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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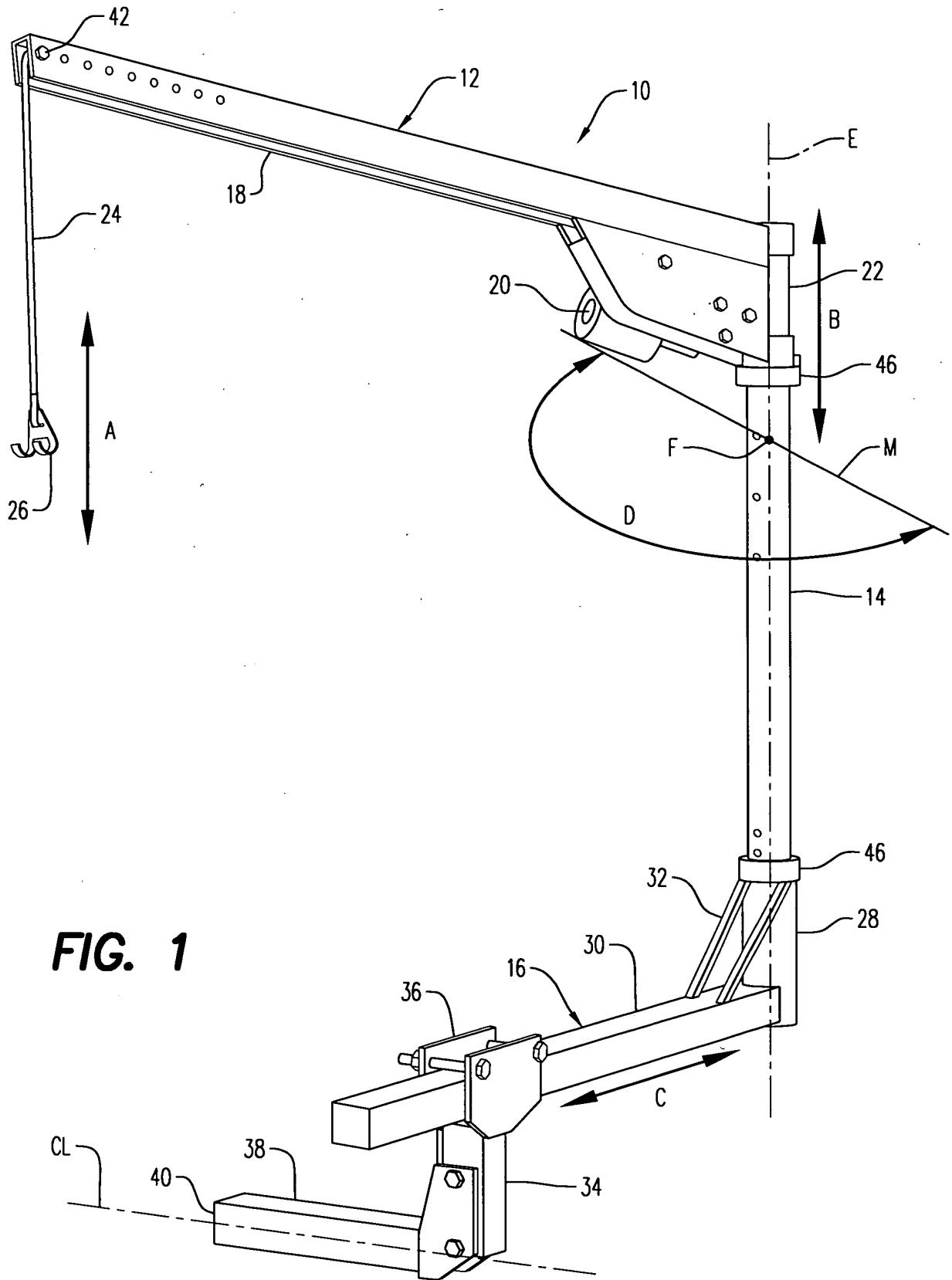


FIG. 1

FIG. 2

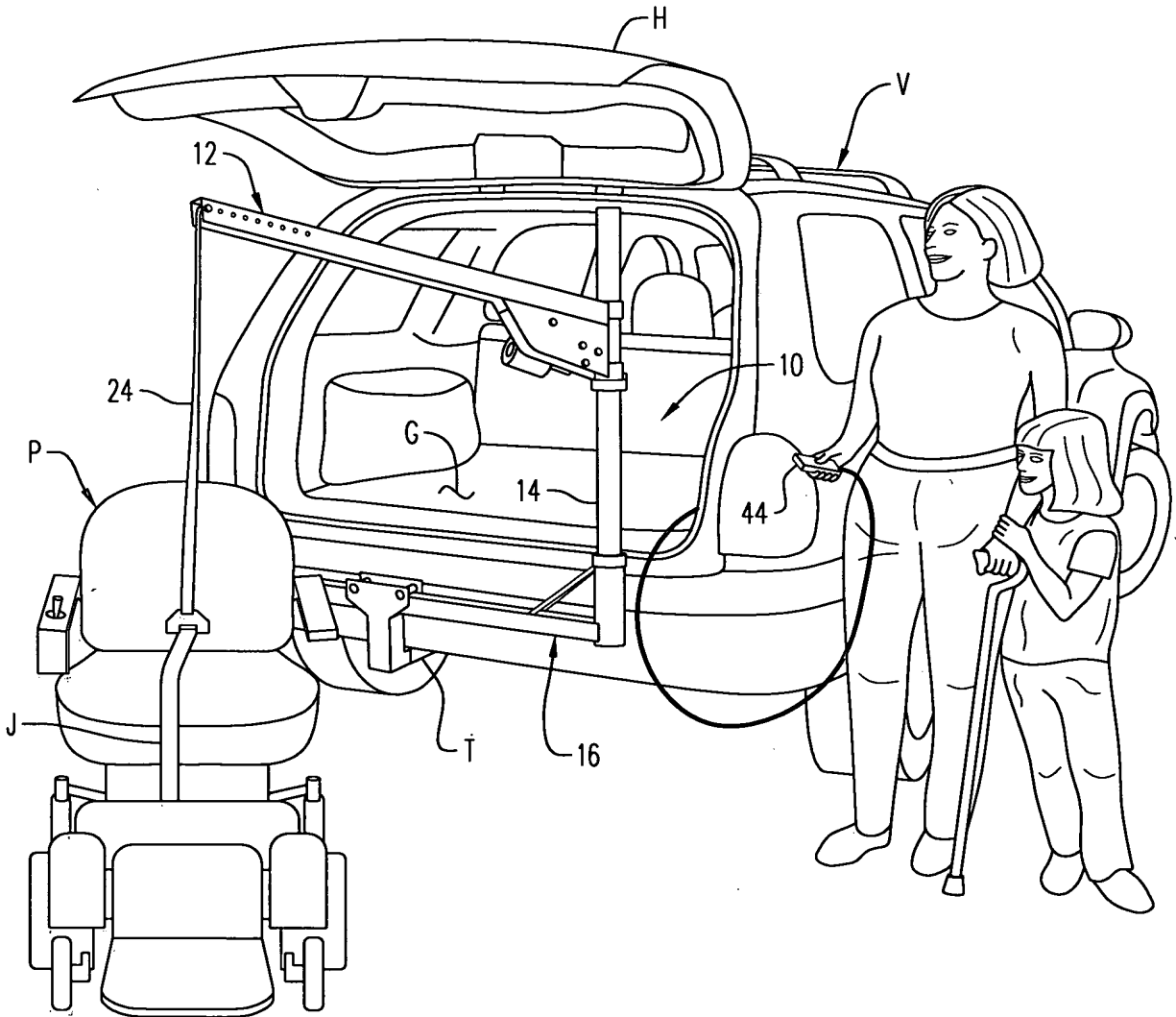




FIG. 3

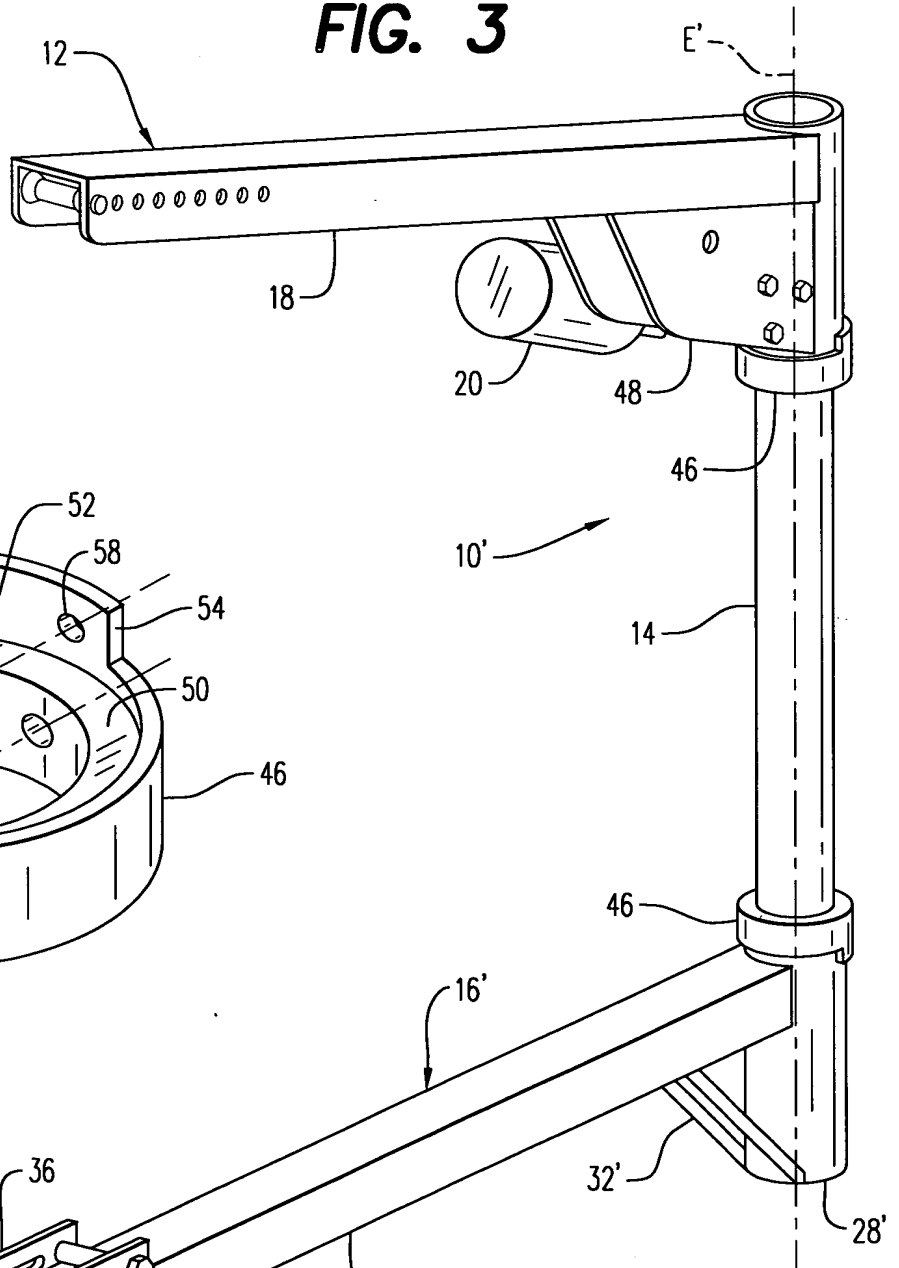


FIG. 4

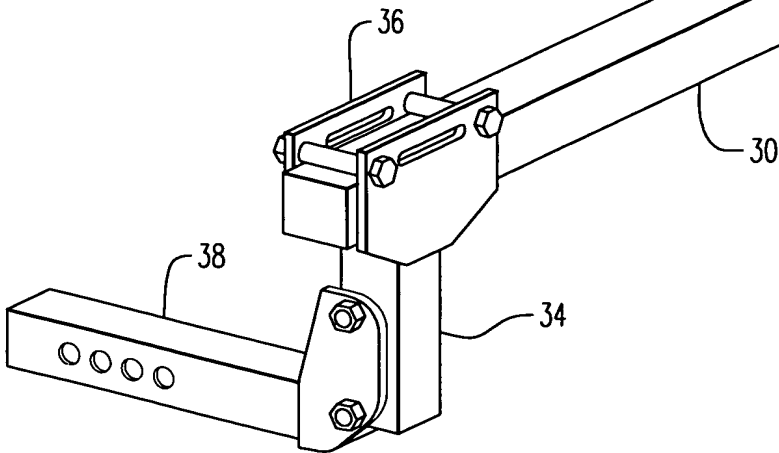
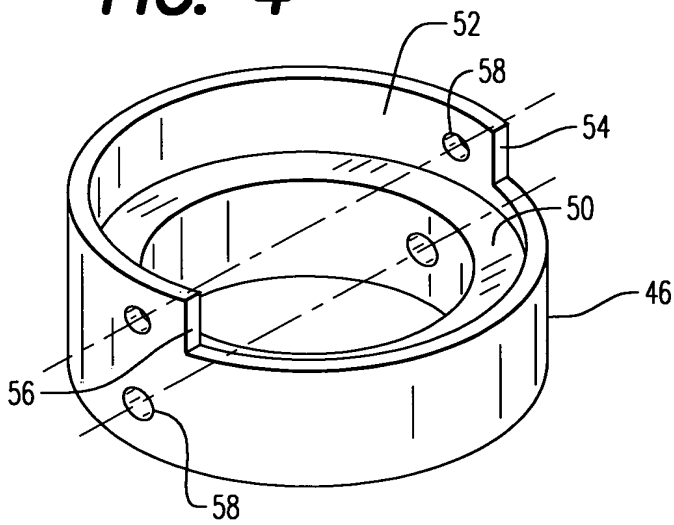
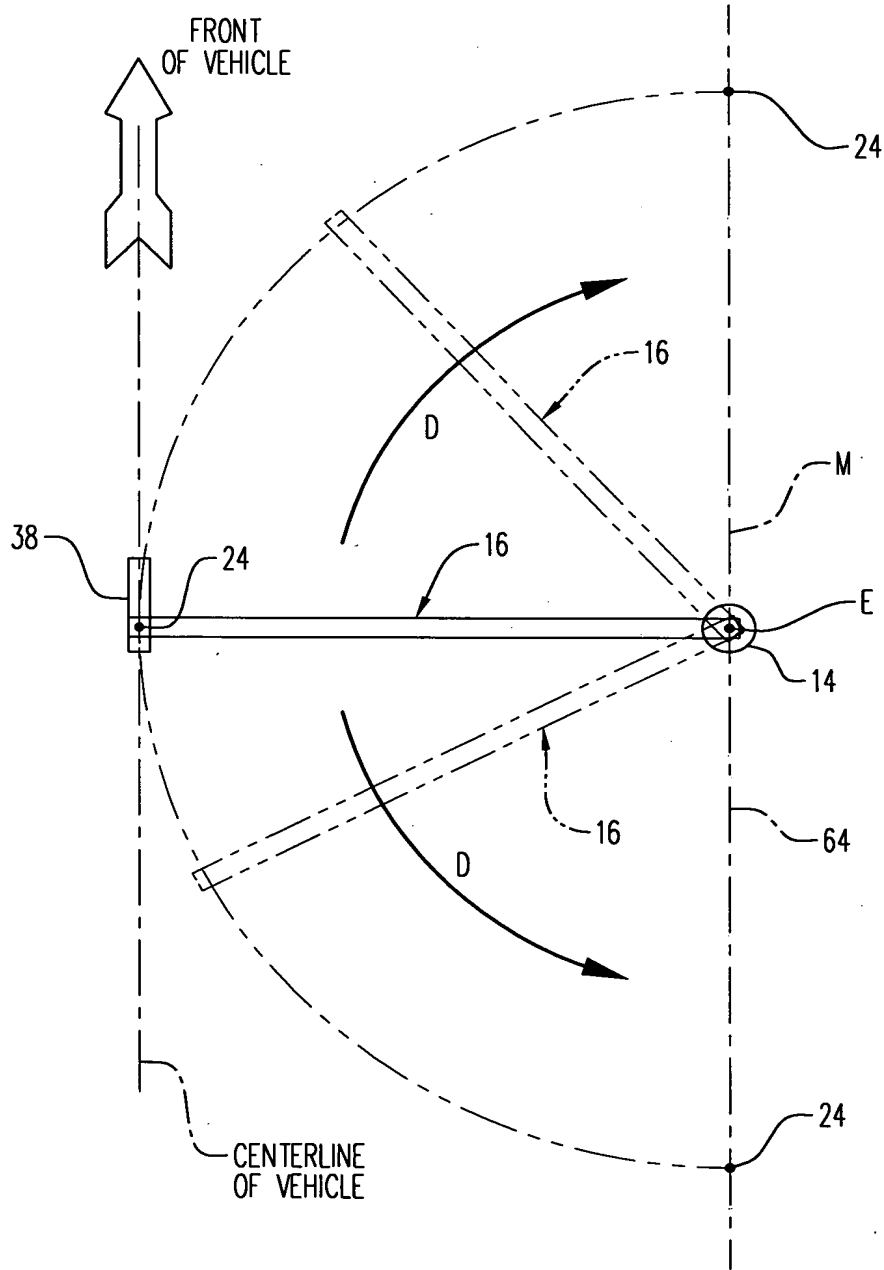


FIG. 5





Commissioner for Patents
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/323,170	12/18/2002	Chad Williams	P-1826

Charles J. Prescott, P.A.
Suite 115
2033 Wood Street
Sarasota, FL 34237



CONFIRMATION NO. 7537
FORMALITIES LETTER

OC00000009452883

Date Mailed: 01/30/2003

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 are required. The drawings submitted are not acceptable because:
 - The application includes photographs of the invention subject matter that appear capable of illustration and which are illegible after scanning (see 37 CFR 1.84(b)). See Figure(s) 1 & 2.

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10323170 .0311030

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Chad Williams

Serial No. 10/323,170

Filed: 12/18/2002

For: Personal Mobility Vehicle Lift

Examiner:

Conf. No. 7537

RESPONSE TO NOTICE TO FILE
CORRECTED APPLICATION PAPERS

To: Commissioner for Patents
U.S. Patent and Trademark Office
Initial Patent Examination Division
Washington, D.C. 20231

Sir:


This is responsive to the Notice to File Corrected Application Papers mailed January 30, 2003.

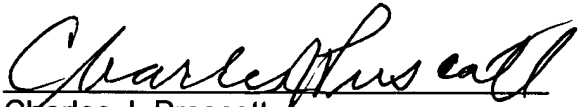
The notice requires replacement drawings because "the application includes photographs which are illegible after scanning".

Enclosed herewith are four pages of drawings representing a complete set of drawings to replace those drawings filed with the application on December 18, 2002.

Also enclosed is a copy of the Notice to File Corrected Application Papers.

Respectfully submitted,

CERTIFICATE OF MAILING
I HEREBY CERTIFY that this Response and the replacement drawings are being deposited in the U.S. Mail, first class postage paid, in an envelope addressed to the Commissioner for Patents, Initial Patent Examination Division, Washington, D.C. 20231, this March 3, 2003.

Charles J. Prescott


Charles J. Prescott
Reg. No. 30,316
Charles J. Prescott, P.A.
2033 Wood Street, Suite 115
Sarasota, Florida 34237
(941) 957-4208



10323170 03110300

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Chad Williams

Serial No. 10/323,170

Filed: 12/18/2002

For: Personal Mobility Vehicle Lift

Examiner:

Conf. No. 7537

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Initial Patent Examination Division
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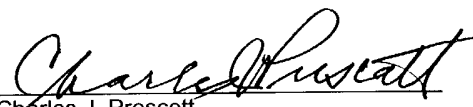
This is responsive to the Notice to File Corrected Application Papers mailed January 30, 2003.


The notice requires replacement drawings because "the application includes photographs which are illegible after scanning".

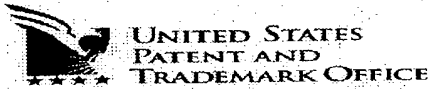
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Charles J. Prescott


Charles J. Prescott
Reg. No. 30,316
Charles J. Prescott, P.A.
2033 Wood Street, Suite 115
Sarasota, Florida 34237
(941) 957-4208



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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/323,170	12/18/2002	Chad Williams	P-1826

Charles J. Prescott, P.A.
Suite 115
2033 Wood Street
Sarasota, FL 34237



CONFIRMATION NO. 7537
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 - The application includes photographs of the invention subject matter that appear capable of illustration and which are illegible after scanning (see 37 CFR 1.84(b)). See Figure(s) 1 & 2.

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#3

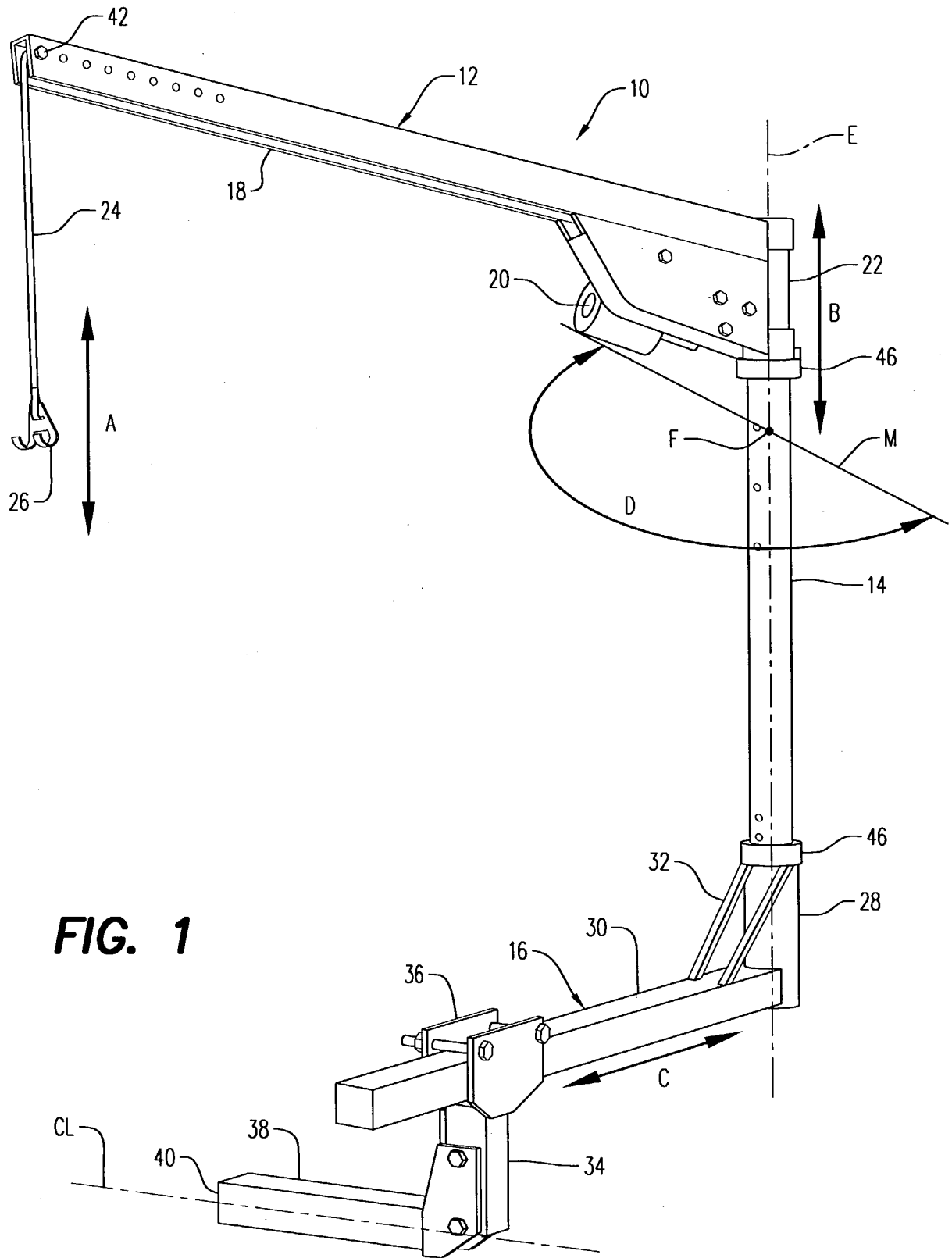
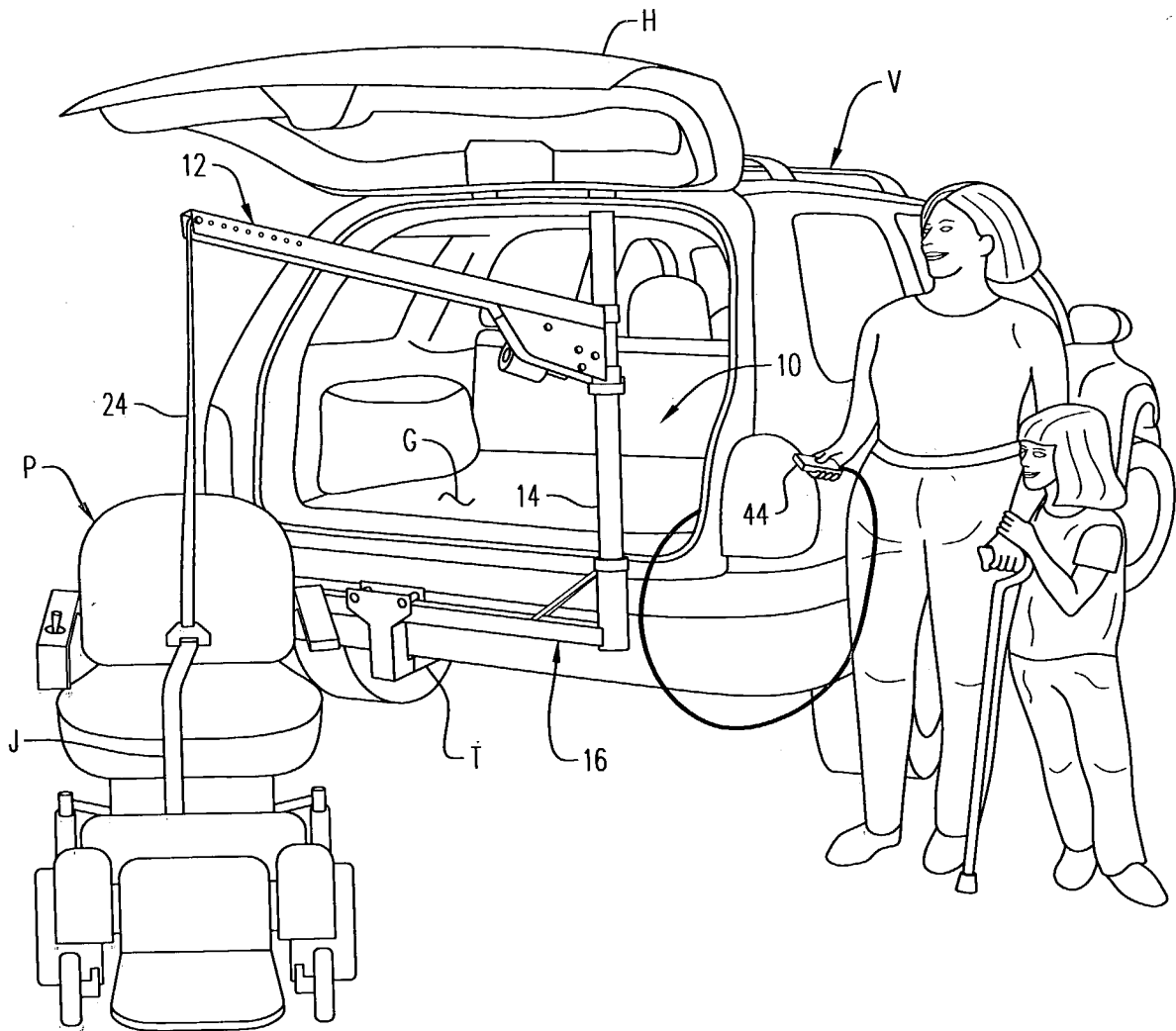


FIG. 1



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FIG. 2





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FIG. 3

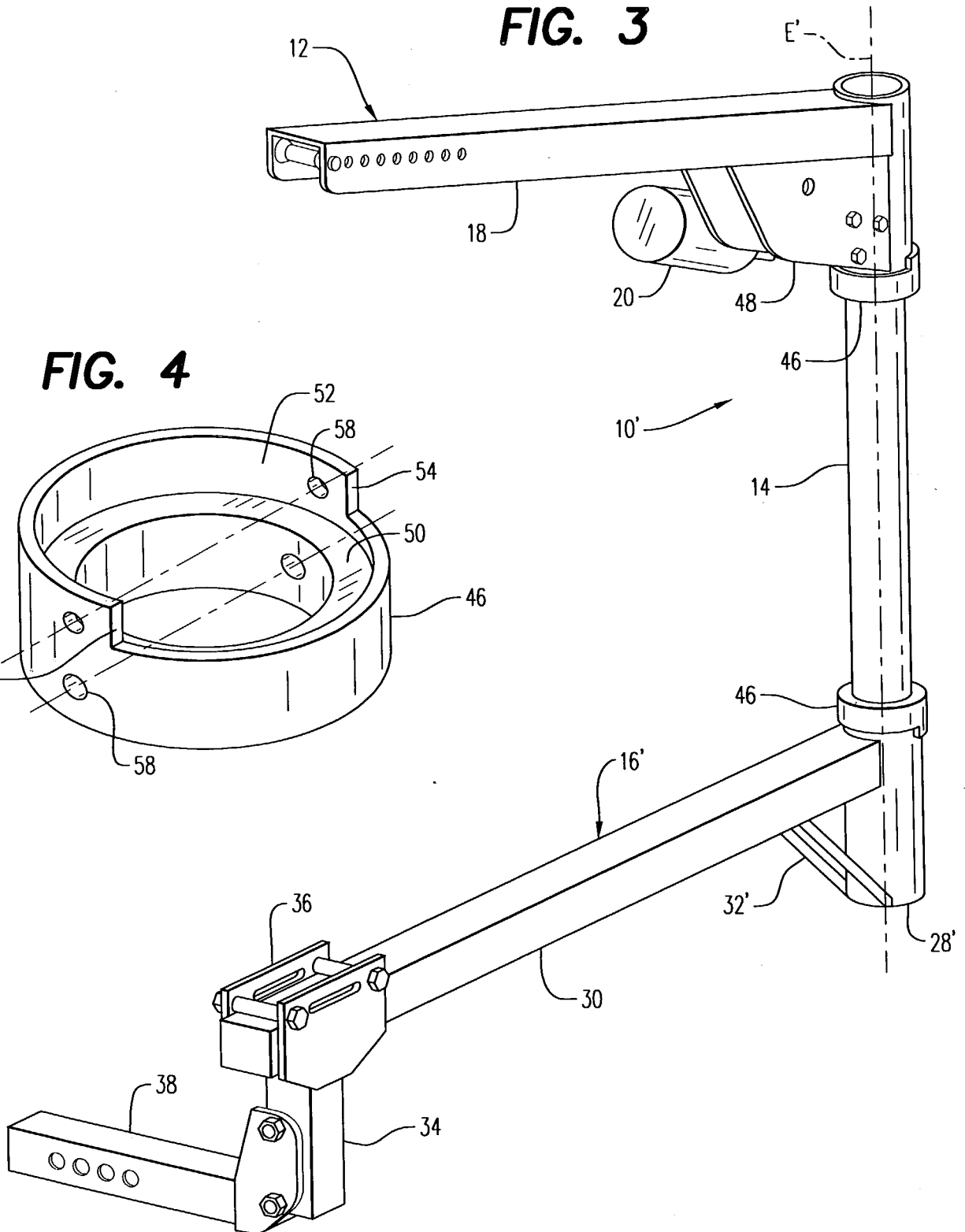


FIG. 4

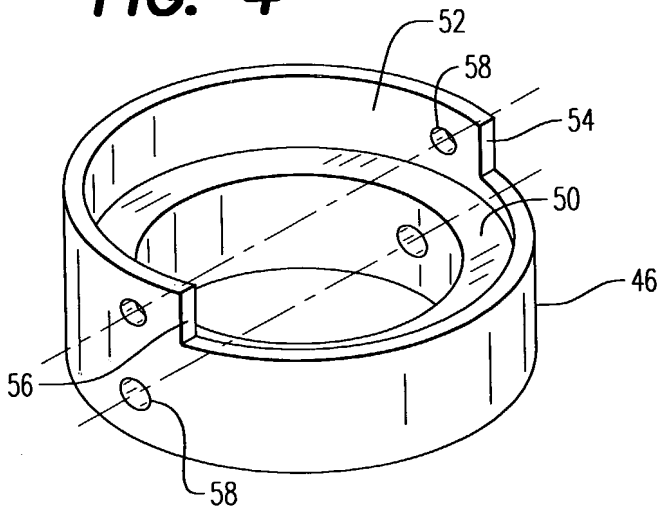
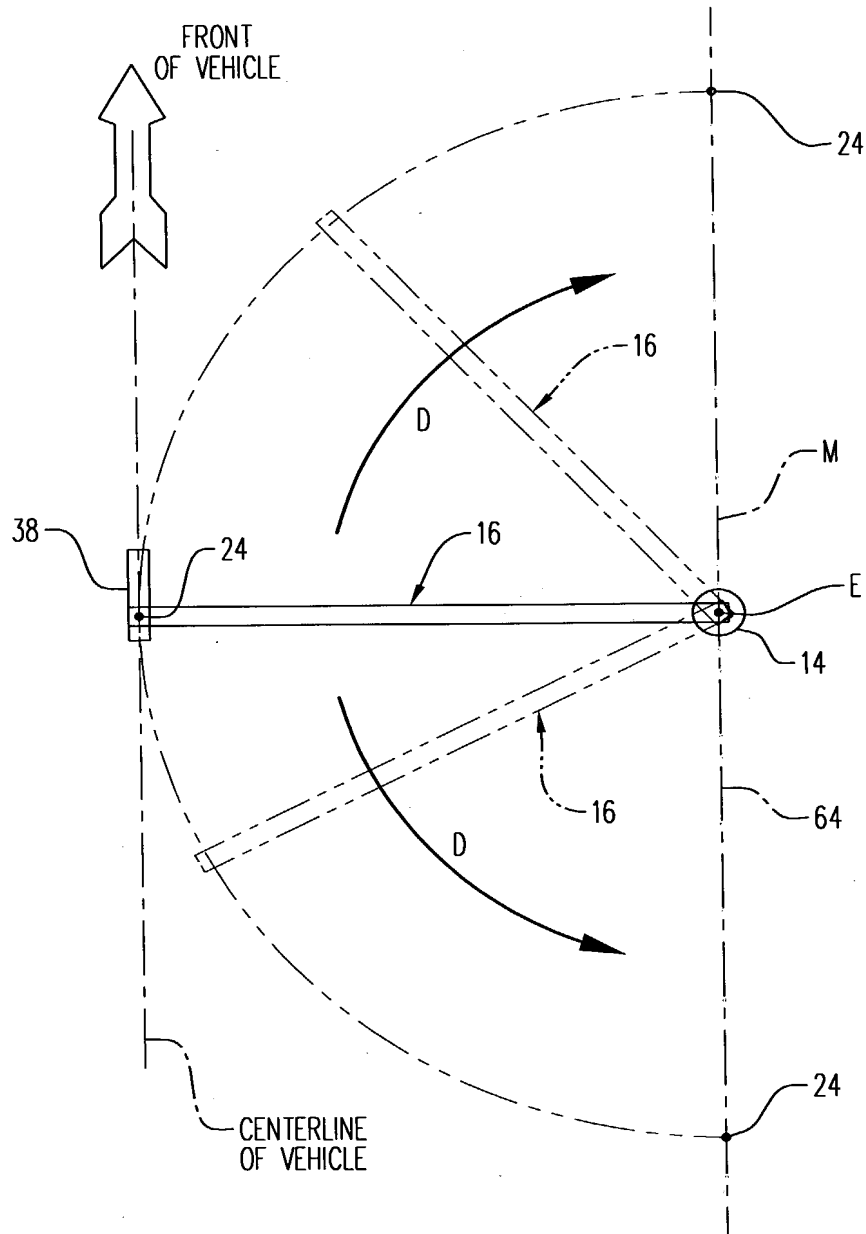
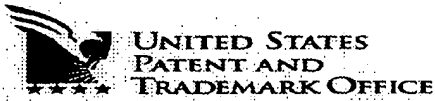




FIG. 5





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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/323,170	12/18/2002	Chad Williams	P-1826

CONFIRMATION NO. 7537

Charles J. Prescott, P.A.
Suite 115
2033 Wood Street
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PART 3 - OFFICE COPY

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10/323170
12/18/02

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PATENT NUMBER and
ISSUE DATE

U.S. UTILITY Patent Application

APPL NUM	FILING DATE	CLASS	SUBCLASS	GAU	EXAMINER
10323170	12/18/2002	414	402	3654	Krizek Hess

****APPLICANTS:** Williams Chad; DuVal Jeff;

****CONTINUING DATA VERIFIED:**

**** FOREIGN APPLICATIONS VERIFIED:**

PG-PUB	DO NOT PUBLISH <input checked="" type="checkbox"/>	RESCIND <input type="checkbox"/>	
Foreign priority claimed	<input type="checkbox"/> yes <input type="checkbox"/> no		ATTORNEY DOCKET NO P-1826
35 USC 119 conditions met	<input type="checkbox"/> yes <input type="checkbox"/> no		
Verified and Acknowledged Examiners's initials			
TITLE : Personal mobility vehicle lift			

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NOTICE OF ALLOWANCE MAILED		CLAIMS ALLOWED	
		Total Claims	Print Claim for O.G.
ISSUE FEE		DRAWING	
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			Print Fig.
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	548		
	541		
	542		
212	180 ^x	12/9/03	
	224		
	293		

SEARCH NOTES

(List databases searched. Attach search strategy inside.)

	Date	Exmr.

INTERFERENCE SEARCHED

Class	Sub.	Date	Exmr.

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ORIGINAL		CROSS REFERENCE(S)					
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INDEX OF CLAIMS

✓ Rejected - (Through numeral) ... Canceled N Non-elected A Appeal
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Claim	Date
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12-20-02

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PTO/SB/05 (11-00)

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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.	P-1826
First Inventor	Chad Williams
Title	Personal Mobility Vehicle Lift
Express Mail Label No.	EV 018593406US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.
See 37 CFR 1.27.
- Specification [Total Pages]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings *(if filed)*
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets]
- Oath or Declaration [Total Pages]
 - Newly executed (original or copy)
 - Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

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Assistant Commissioner for Patents
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Washington, DC 20231

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 - CD-ROM or CD-R (2 copies); or
 - paper
 - Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- Assignment Papers (cover sheet & document(s))
- 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)
- English Translation Document *(if applicable)*
- Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
- Preliminary Amendment
- Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- Certified Copy of Priority Document(s)
(if foreign priority is claimed)
- Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP)

of prior application No.: _____ / _____

Prior application information:

Examiner: _____

Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label

(insert Customer No. or attach bar code label here)

or Correspondence address below

Name	Charles J. Prescott				
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Country	US	Telephone	(941) 957-4208	Fax	957-4210

Name (Print/Type)	Charles J. Prescott	Registration No. (Attorney/Agent)	30,316
Signature	<i>Charles Prescott</i>	Date	

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J1046 U.S. PTO 10/22/10

12/18/02

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FEE TRANSMITTAL		<i>Complete if Known</i>	
for FY 2002		Application Number	
<i>Patent fees are subject to annual revision.</i>		Filing Date	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		First Named Inventor	Chad Williams
		Examiner Name	
TOTAL AMOUNT OF PAYMENT (\$) 370		Group Art Unit	
		Attorney Docket No.	P-1826

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None
 Deposit Account:

Deposit Account Number: **16-2454**
 Deposit Account Name: **Charles J. Prescott**

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify) _____					
SUBTOTAL (3)					(\$)

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility filing fee	370
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
SUBTOTAL (1)					(\$) 370

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims	Fee from below	Fee Paid
Total Claims Independent Claims	<input type="text"/>	-20** = <input type="text"/>	X <input type="text"/>	= <input type="text"/>
Multiple Dependent	<input type="text"/>	-3** = <input type="text"/>	X <input type="text"/>	= <input type="text"/>

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
109	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$)

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY		<i>Complete (if applicable)</i>	
Name (Print/Type)	Charles J. Prescott	Registration No. (Attorney/Agent)	30,316
Signature	<i>Charles J. Prescott</i>	Telephone	941-957-4208
		Date	12.18.02

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#5

PTO/SB/35 (11-00)

Approved for use through 10/31/2002. OMB 0651-0031

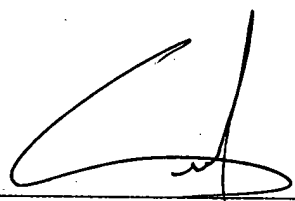
U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

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REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)	First Named Inventor	Chad Williams
	Title	Personal Mobility Vehicle Lift
	Atty Docket Number	P-1826

I hereby 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 agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

12/12/02
Date


Signature

Chad Williams
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

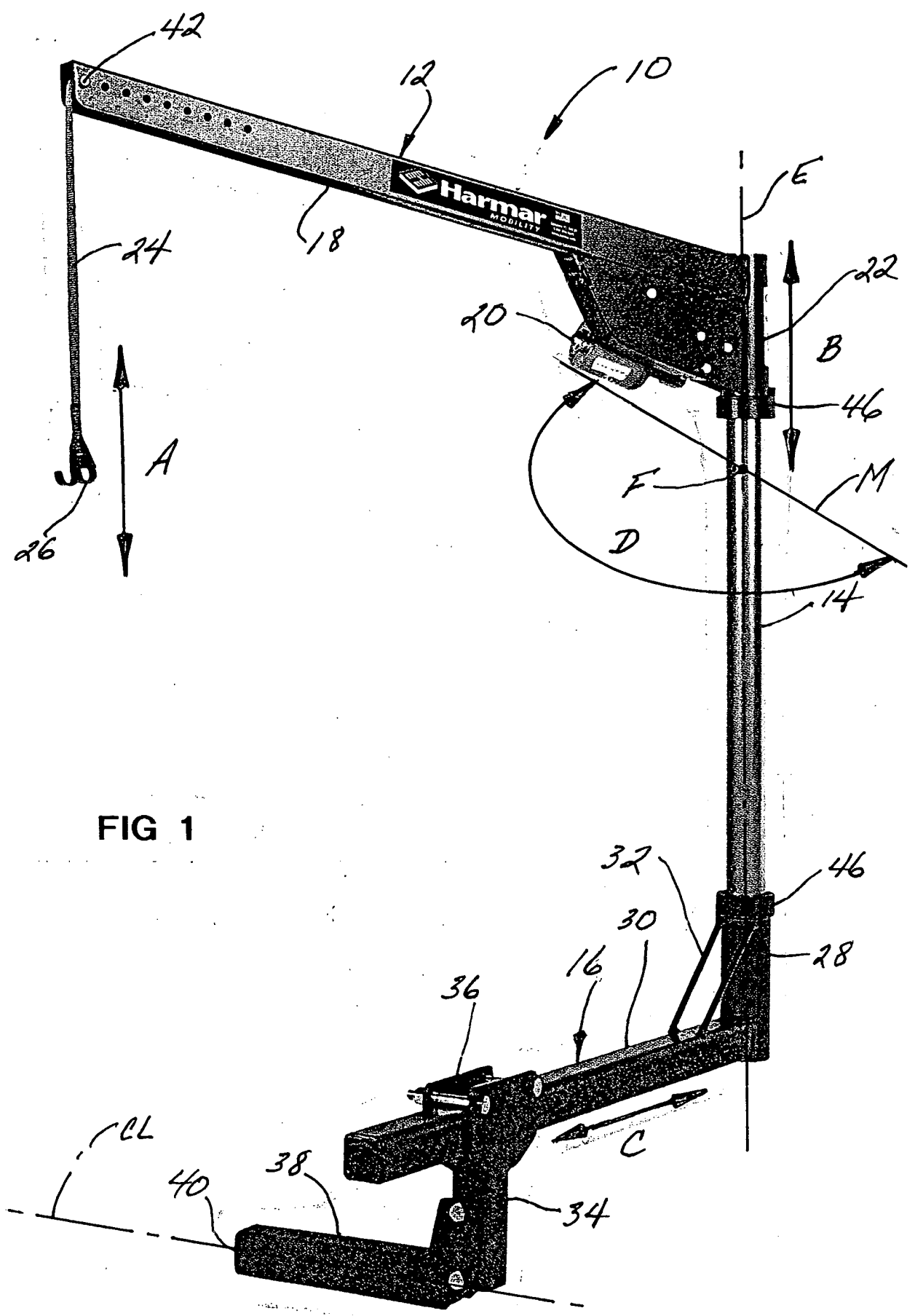
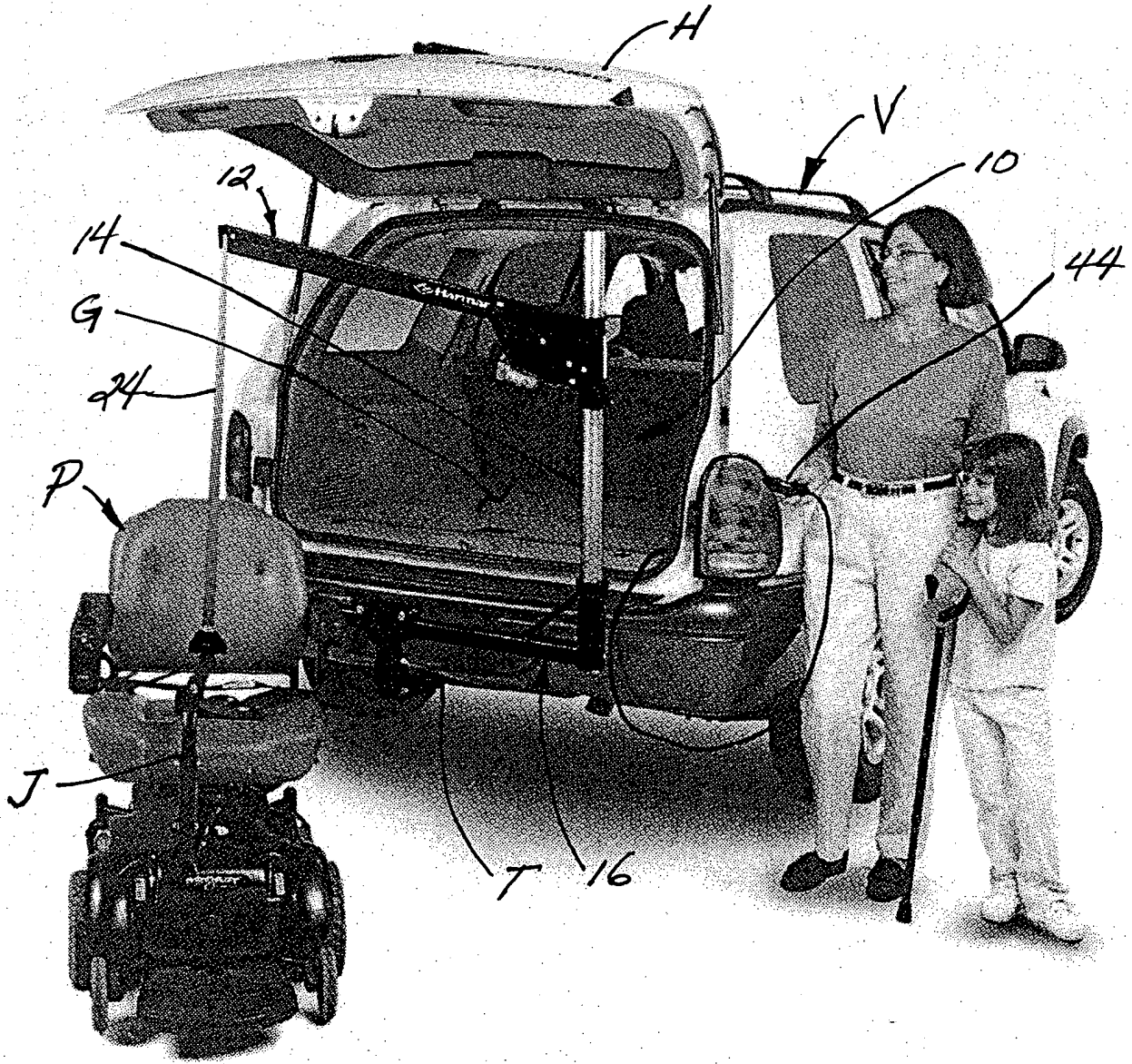


FIG 1

FIG 2



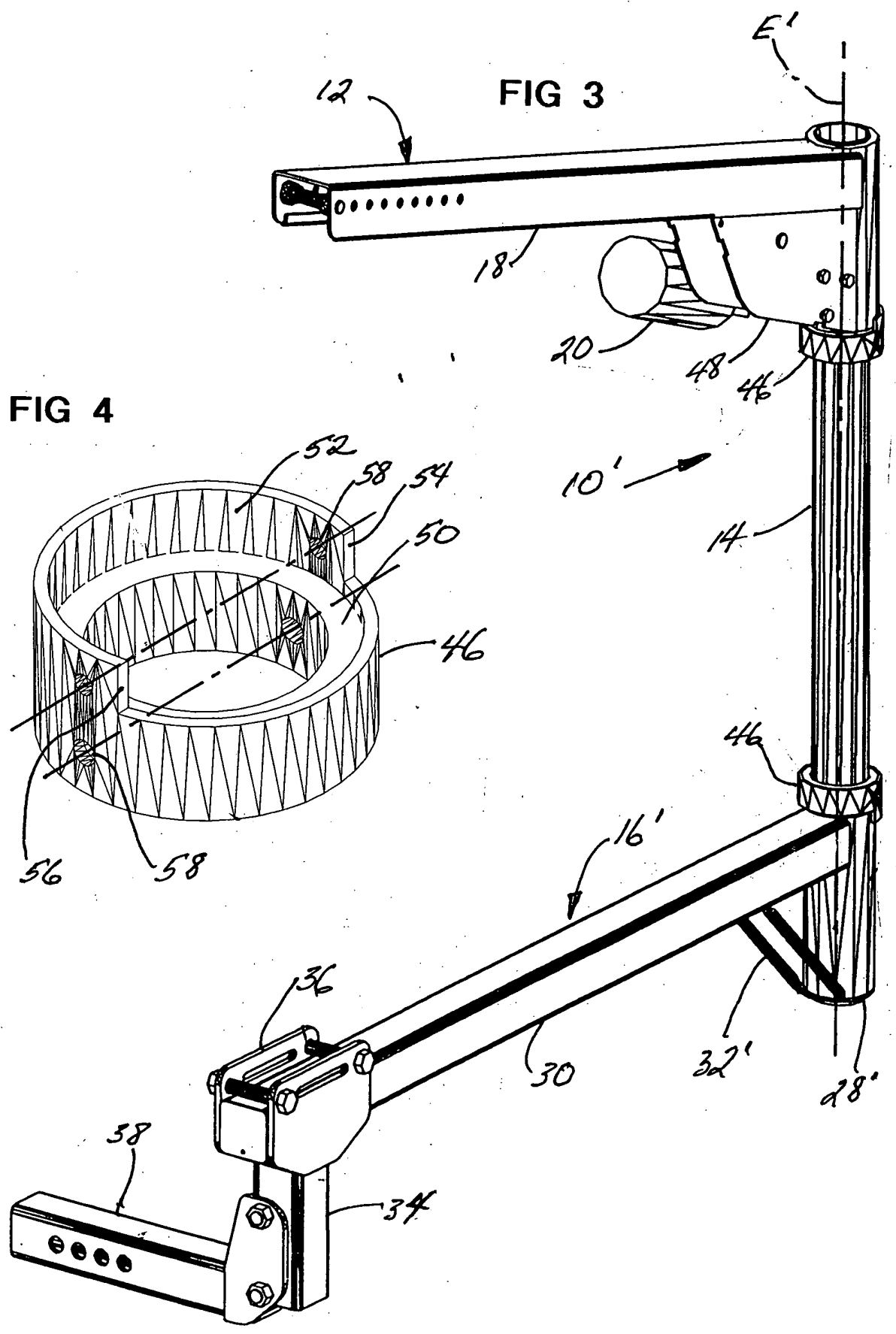
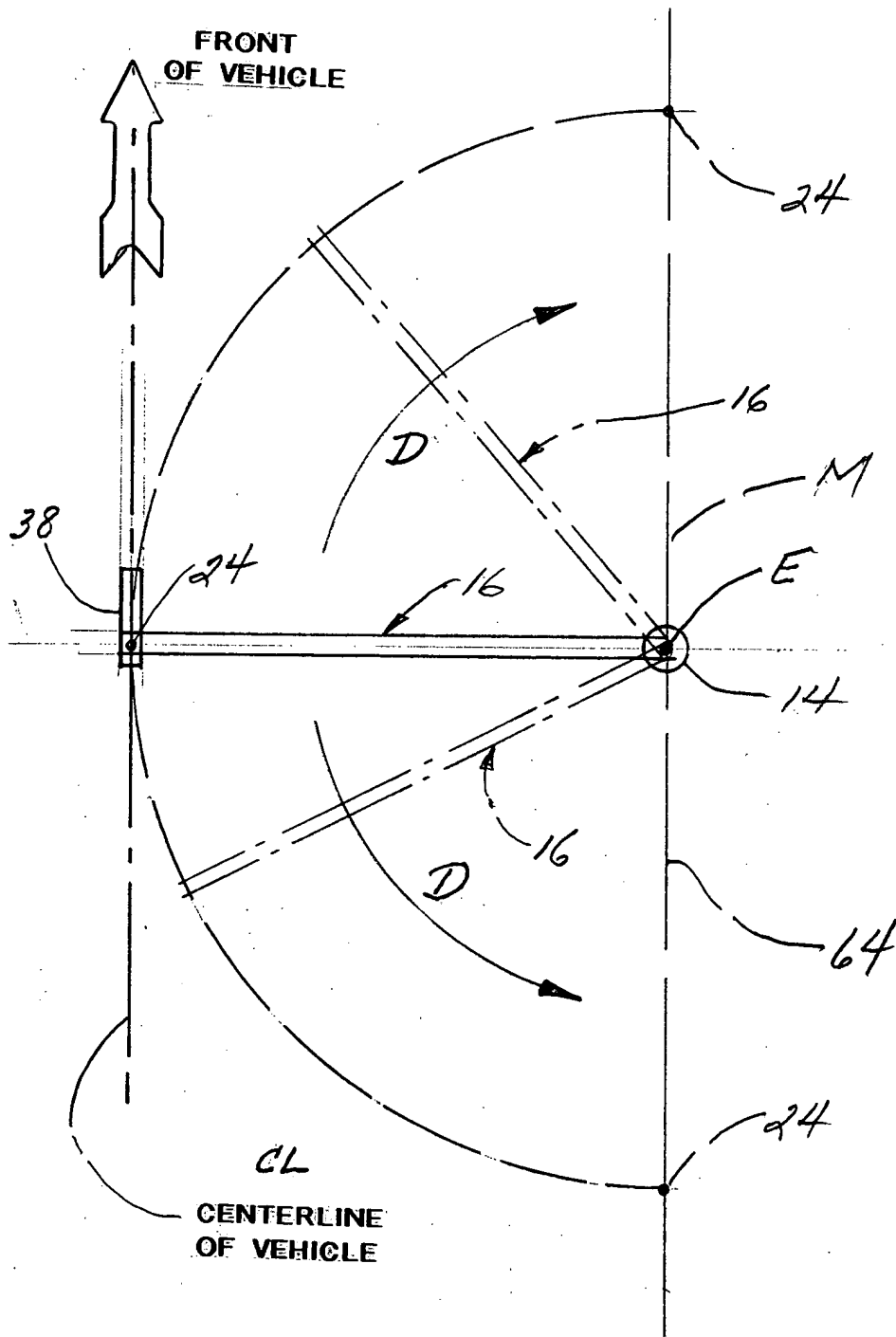


FIG 5



TITLE OF THE INVENTION

Personal Mobility Vehicle Lift

CROSS-REFERENCE TO RELATED APPLICATIONS

None

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

None

INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC

None

BACKGROUND OF THE INVENTION

Field of the Invention

This invention relates generally to lift mechanisms for a personal mobility vehicle (PMV) and more particularly to a lift for a PMV which is attachable to a class II or Class III trailer hitch attached to the rear of a vehicle.

Description of Prior Art

The popularity of self-propelled personal mobility vehicles (PMV) for use by the physically challenged is gaining in popularity. These PMV's are typically of a three or four wheeled design and are used by those physically challenged who are either able to ambulate short distances or who travel with a personal attendant able to assist in the loading and offloading of a PMV from a car trunk or a rear door of a van thus facilitating access by the physically challenged person during PMV use and storage.

Several patented prior art systems and apparatus for the storage and conveyance of a PMV when not in use are disclosed in the following prior U.S. patents:

- U.S. Patent No. 6,007,289 to Kruse, et al.
- U.S. Patent No. 5,114,120 to Bartelt, et al.
- U.S. Patent No. 4,741,660 to Kent
- U.S. Patent No. 4,705,448 to Mungons
- U.S. Patent No. 5,011,361 to Peterson
- U.S. Patent No. 5,8616,763 to Hamann et al.
- U.S. Patent No. 5,431,522 to Ross
- U.S. Patent No. 4,127,200 to Mann
- U.S. Patent No. 4,671,729 to McFarland
- U.S. Patent No. 6,386,410 to Van Dusen et al.
- U.S. Patent No. 4,697,975 to Lippold
- U.S. Patent No. 4,738,581 to Kuhlman
- U.S. Patent No. 5,752,799 to Carey et al.
- U.S. Patent No. 5,853,282 to Bechler et al.
- U.S. Patent 5,810,547 to Bruno et al.
- U.S. Patent 5,205,700 to Lin et al.
- U.S. Patent 5,431,526 to Peterson et al.

Of particular interest in these prior art devices, the invention taught by Bartelt in U.S. Patent 5,114,120 teaches an equipment mounting system which supportively engages with and depends upon support from a class II or class III trailer hitch attached to the back of the vehicle. These class II and class III trailer hitches typically provide a rectangular elongated cavity for receiving a closely similarly configured tongue of a trailer hitch. This equipment mounting system includes a pivotal leg which extends laterally

beyond the right side of the vehicle for deployment and pick up of equipment stored at the rear of the vehicle on this system.

Another notable prior art U.S. Patent 6,007,289 invented by Kruse teaches a wheelchair lift which is also attached to the rear trailer hitch structure attached to the rear of a vehicle. In this PMV lift, a lift support assembly is provided at the lower end of the upright stanchion so that a PMV may be loaded and offloaded onto a ground or sidewalk or road surface which is adjacent to and outboard from the side of the vehicle.

In depending upon the trailer hitch devices attached to the rear of such a conveyance vehicle, sufficient strength for lifting a PMV becomes an issue. The further from the center line of the vehicle and thus the trailer hitch mechanism that a PMV being lifted from or into the rear of the vehicle gets, the greater the torsional load being placed on the rectangular cavity and the trailer hitch itself. In the Bartelt disclosure, the equipment appears to be of relatively light weight nature, while the Kruse teaching depends for added strength upon this lift support assembly **26** to allow the apparatus to deploy and lift a PMV onto and from a surface which is substantially outboard or laterally disposed from the right side of the vehicle.

In the present invention, this load bearing limitation between the PMV lift and the trailer hitch itself is dealt with by strictly limiting the arch or rotational movement of the lifting boom about the upright axis of the stanchion so that no movement is permitted beyond a plane lying fore and aft to the vehicle and passing through the upright stanchion of the PMV lift itself.

BRIEF SUMMARY OF THE INVENTION

This invention is directed to a personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which the PMV lift is rigidly engageable. The PMV lift receives substantially all of its support from the trailer hitch and includes an elongated laterally extending lifting boom and a drive mechanism connected adjacent a proximal end thereof. The drive mechanism includes an elongated flexible lifting cable or belt which is operably connectable for raising and lowering the PMV by operation of the drive mechanism. An upright stanchion is supportively connected to the lifting boom while an elongated lift support arm is supportively connected to a lower end of the stanchion. A trailer hitch engaging member is connectable at one end to the trailer hitch, the other end of which is connected to and supports a proximal end of the lift support arm. The PMV lift and PMV are substantially supported entirely by the trailer hitch.

It is therefore an object of this invention to provide a PMV lift for loading and offloading a PMV into and from the rear portion of a vehicle by utilizing as a sole support for the PMV lift and PMV a class II or class III trailer hitch having a rectangular receiving cavity longitudinally disposed there through.

Still another object of this invention is to provide a PMV lift which solely depends upon the interengaging structure with a class II or class III trailer hitch for its support and which limits the amount of stress placed on the trailer hitch by preventing actuate movement of the lifting boom from exceeding a predetermined distance from the center line of the vehicle and the trailer hitch itself.

In accordance with these and other objects which will become apparent hereinafter, the instant invention will now be described with reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S)

Figure 1 is a perspective view of the invention.

Figure 2 is a perspective view of the invention attached to the rear of a vehicle and in use in deploying a personal mobility vehicle (PMV).

Figure 3 is a perspective view of an alternate embodiment of the invention.

Figure 4 is a perspective view of the rotation limit collar shown in the embodiments of Figures 1 and 3.

Figure 5 is a top plan schematic view of the rotational limiting movement of the lifting boom of the invention.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings, the preferred embodiment of the invention is there shown generally at numeral **10** in Figures 1 and 2. This personal mobility vehicle (PMV) lift **10** is structured for the loading and offloading of a personal mobility vehicle (PMV) shown generally at **P** in Figure 2. The PMV **P** is to be offloaded from a floor surface **G** of a vehicle **V** with the rear door **H** or trunk deck lid (not shown) in the open position. The PMV **P** is thus deployable from the floor **G** to the ground as shown in Figure 2 for use and then reloaded from the ground back onto the floor surface **G** for storage and conveyance.

The PMV lift **10** includes a lifting boom **12** having a power drive unit **20** attached adjacent the proximal end housing **22** thereof. The drive mechanism **20** includes a drive motor of a conventional battery powered nature engaged with a gear set (not shown) to

rotate a drum or spool (also not shown) whereby a flexible cable or belt **24** is extended downwardly and lifted upwardly in the direction of arrow **A** about distal end roller **42** by appropriate operation of the drive mechanism **20**.

A hook or attaching means **26** is provided at the distal end of the flexible cable or belt **24** which is attachable to a lifting harness **J** shown in Figure 2 attached to the PMV **P**.

The proximal end housing **22** of the lifting boom **12** includes an elongated upright cylindrical cavity ^{**18**} for receiving an upper end of an elongated cylindrical stanchion **14** which is fabricated of suitably sized steel tubing. By clamping means, the lifting boom **12** is positionable vertically in the direction of arrow **B** on the upright stanchion **14**. Spaced apart NYLON or DELRIN upper and lower bushings (not shown) positioned between the proximal end housing **22** and the upper end of the stanchion **14** reduce rotational friction.

A stationary lift support arm **16** includes an elongated horizontally disposed beam **30** having an upright cylindrical stanchion support housing **28** disposed at one end thereof. Braces **32** reinforce the rigid orthogonal connection between the support beam **30** and the upright stanchion support housing **28**. An upright offset member **34** is connected by clamping, slidable engagement to the other end of the elongated support beam **30** thus allowing adjustable lateral positioning of the support beam **30** in the direction of arrow **C** with respect to a trailer hitch engaging member **38**.

The distal end **40** of the trailer hitch engaging member is insertable into a conventional class II or class III trailer hitch **T** as seen in Figure 2. The cross sectional shape of the cavity provided by the trailer hitch **T** is closely mated and aligned with the outer rectangular surface of the elongated trailer hitch engaging member **38** whereby substantially no rotational movement about the longitudinal centerline **CL** of the vehicle **V**

is permitted. This singular support aspect is of the utmost importance to the present invention as substantially all of the weight-bearing function is borne by the strength of the class II or class III trailer hitch in receiving and supporting the downward and torsional load of not only the weight of the entire PMV lift **10**, but also that of the PMV **P**.

An alternate embodiment of the invention **10'** in Figure 3 is substantially identical to that described in Figures 1 and 2 except that the support beam **30** of the lift support arm **16'** is rigidly connected to the upper end of the stanchion support member **28'** with the strengthening bracing **32'** extending downwardly at an acute angle therebetween for added strength.

Referring now particularly to Figures 1, 4 and 5, a most important aspect of the invention is there shown with respect to limiting the stress placed upon the interengaging attachment between the trailer hitch **T** and the trailer hitch engaging member **38**. In initially deploying or storing the PMV **P** with respect to the floor **G**, the lifting boom **12** is inwardly disposed from the stanchion **14** and, because the PMV **P** is close to the centerline **CL** of the vehicle, very minimal torsional load is imposed on the interconnection between the trailer hitch engaging member **38** and the trailer hitch **T**. However, once the PMV **P** is positioned rearwardly of the vehicle **V** for either deployment or lifting of the PMV **P**, the distal end roller **42** and flexible cable or strap **24** are likely to be moved away from the centerline **CL** of the vehicle **V**. As described in prior art, this rotational movement of the lifting boom **12** which would position the PMV **P** beyond the side surface of the vehicle **V** and the upright stanchion **14** would dramatically increase the torsional or twisting load placed on the trailer hitch **T**.

To prevent such overstressing of the trailer hitch **T** and the interengaging contact with the trailer hitch engaging member **38**, the rotational movement of the lifting boom **12** is thus strictly limited to movement in the direction of arrow **D** in Figures 1 and 5 about the upright axis **E** of stanchion **14**. That is to say that the lifting boom **12** and the distal end portion of the flexible cable or strap **24** are prohibited from rotational movement beyond a fore-and-aft plane lying within line **M** which passes through the centerline **E** of the stanchion **14**. In other words, the lifting boom **12** cannot swing beyond a position which is further from the centerline **CL** of the trailer hitch **T** and trailer hitch engaging member **38** than that of the stanchion **14**.

To effect this rotational limitation of the lifting boom **12** on stanchion **14**, a rotation limit collar **46** as best seen in Figure 4 is provided. This collar **46** is lockably engageable onto the stanchion just above the stanchion support member **28** or **28'** and just below the proximal portion **22** of the lifting boom **12**. Attachment of each collar **46** is effected through threaded fasteners (not shown) in threaded openings **58** which bear against the outer surface of the stanchion **14** to secure the longitudinal spacing and rotational spacing of each collar **46**.

Stop surfaces **54** and **56** bear against stop members (not shown) attached to or integral with the proximal housing **22** and stanchion support **28** so as to effect the desired rotational limitation of the lifting boom **12** about the vertical axis **E** of stanchion **14** as previously described.

By this arrangement, the structural integrity of the trailer hitch **T** is not compromised or overstressed so long as the personal mobility vehicle **P** is deployed and

stored from a position which lies substantially between the longitudinal axis **CL** of the vehicle **V** and the upright axis **E** or **E'** of the stanchion **14**.

While the instant invention has been shown and described herein in what are conceived to be the most practical and preferred embodiments, it is recognized that departures may be made therefrom within the scope of the invention, which is therefore not to be limited to the details disclosed herein, but is to be afforded the full scope of the claims so as to embrace any and all equivalent apparatus and articles.

CLAIM OR CLAIMS

1. A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which said PMV lift is rigidly engageable and from which said PMV lift receives substantially total support, said PMV lift comprising:

an elongated laterally extending lifting boom and a drive mechanism connected adjacent a proximal end thereof, said drive mechanism including an elongated flexible lifting cable or belt extending downwardly from a distal end of said lifting boom, said drive mechanism operably connected to a proximal portion of said lifting cable or belt whereby a PMV attachable to a distal end of said lifting cable or belt and may be raised or lowered by operation of said drive mechanism;

an elongated upright stanchion supportively connected at an upper end thereof to the proximal end of said lifting boom;

an elongated lift support arm supportively connected at a distal end thereof to a lower end of said stanchion;

a trailer hitch engaging member connectable at a first end thereof to the trailer hitch, a second end of said trailer hitch engaging member connected to a proximal end of said lift support arm whereby said PMV lift is substantially fully supported by the trailer hitch;

a rotation stop mounted on said stanchion for limiting rotation of said lifting boom with respect to an upright axis of said stanchion between a first position within the rear of the vehicle whereby the PMV may be lowered or lifted with respect to the floor of the vehicle and a second position behind the vehicle whereby the PMV may be lowered to or lifted from the ground.

- 2. A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein: said lifting boom is vertically adjustable on said stanchion.
- 3. A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein: said lift support arm is laterally adjustable with respect to said trailer hitch engaging member.
- 4. A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein the trailer hitch includes a class II or III receiver having a straight rectangular receiving cavity and wherein:
 - said trailer hitch engaging member has an outside rectangular cross section configuration substantially closely mating within the receiving cavity of the trailer hitch preventing substantial axial rotation of said trailer hitch engaging member while positioned within the trailer hitch thus fully supporting said lift support arm from substantial rotation about a longitudinal axis of the trailer hitch.
- 5. A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which said

PMV lift is rigidly engageable and from which said PMV lift receives substantially total support, said PMV lift comprising:

an elongated laterally extending lifting boom and a drive mechanism connected adjacent a proximal end thereof, said drive mechanism including an elongated flexible lifting cable or belt extending downwardly from a distal end of said lifting boom, said drive mechanism operably connected to a proximal portion of said lifting cable or belt whereby a PMV attachable to a distal end of said lifting cable or belt and may be raised or lowered by operation of said drive mechanism;

an elongated upright stanchion supportively connected at an upper end thereof to the proximal end of said lifting boom;

an elongated lift support arm supportively connected at a distal end thereof to a lower end of said stanchion;

a trailer hitch engaging member connectable at a first end thereof to the trailer hitch, a second end of said trailer hitch engaging member connected to a proximal end of said lift support arm whereby said PMV lift is substantially fully supported by the trailer hitch;

a rotation stop mounted on said stanchion which limits rotation of said lifting boom about an upright axis of said stanchion whereby the distal end of said lifting boom is prevented from movement further from said trailer hitch engaging member than that of said stanchion.

6. A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein:
said lifting boom is vertically adjustable on said stanchion.
7. A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein:
said lift support arm is laterally adjustable with respect to said trailer hitch
engaging member.
8. A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein the
trailer hitch includes a class II or III receiver having a straight rectangular receiving
cavity and wherein:

said trailer hitch engaging member has an outside rectangular cross
section configuration substantially closely mating within the
receiving cavity of the trailer hitch preventing substantial axial
rotation of said trailer hitch engaging member while positioned
within the trailer hitch thus fully supporting said lift support arm from
substantial rotation about a longitudinal axis of the trailer hitch.
9. A personal mobility vehicle (PMV) lift for loading and offloading a personal
mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having a
trailer hitch rigidly attached to the rear of the vehicle to which said PMV lift is rigidly
engageable and from which said PMV lift receives substantially total support, said PMV
lift comprising:

a lifting boom having an elongated laterally extending arm and a drive
mechanism connected adjacent a proximal end thereof, said drive
mechanism including an elongated flexible lifting cable or belt
extending therefrom and downwardly from a distal end of said

lifting boom, said drive mechanism powering said lifting cable in and out with respect to said lifting boom;

an elongated upright stanchion supportively connected at an upper end thereof to the proximal end of said lifting boom;

an elongated lift support arm supportively connected at a distal end thereof to a lower end of said stanchion;

a trailer hitch engaging member connectable at a first end thereof to the trailer hitch, a second end of said trailer hitch engaging member connected to a proximal end of said lift support arm whereby said PMV lift is substantially fully supported by the trailer hitch;

a rotation which limits rotation of said lifting boom about an upright axis of said stanchion substantially further from the trailer hitch than a plane passing through the upright axis of said stanchion and oriented lengthwise to the vehicle.

10. A personal mobility vehicle (PMV) lift as set forth in Claim 9, wherein: said lifting boom is vertically adjustable on said stanchion.
11. A personal mobility vehicle (PMV) lift as set forth in Claim 9, wherein: said lift support arm is laterally adjustable with respect to said trailer hitch engaging member.
12. A personal mobility vehicle (PMV) lift as set forth in Claim 9, wherein the trailer hitch includes a class II or III receiver having a straight rectangular receiving cavity and wherein:

said trailer hitch engaging member has an outside rectangular cross section configuration substantially closely mating within the receiving cavity of the trailer hitch preventing substantial axial rotation of said trailer hitch engaging member while positioned within the trailer hitch thus fully supporting said lift support arm from substantial rotation about a longitudinal axis of the trailer hitch.

10/323/70

ABSTRACT OF THE DISCLOSURE

A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which the PMV lift is rigidly engageable. The PMV lift receives substantially all of its support from the trailer hitch and includes an elongated laterally extending lifting boom and a drive mechanism connected adjacent a proximal end thereof. The drive mechanism includes an elongated flexible lifting cable or belt which is operably connectable for raising and lowering the PMV by operation of the drive mechanism. An upright stanchion is supportively connected to the lifting boom while an elongated lift support arm is supportively connected to a lower end of the stanchion. A trailer hitch engaging member is connectable at one end to the trailer hitch, the other end of which is connected to a proximal end of the lift support arm. The PMV lift is substantially fully supported by the trailer hitch.

Please type a plus sign (+) inside this box → +

PTO/SB/01 (10-00)

Approved for use through 10/31/2002. 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) <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	P-1826
	First Named Inventor	Chad Williams
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
	Group Art Unit	
Examiner Name		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

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

Personal Mobility Vehicle Lift

(Title of the Invention)

the specification of which

is attached hereto

OR

was filed on (MM/DD/YYYY) as United States Application Number or PCT International Application Number (if applicable).

and was amended on (MM/DD/YYYY)

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

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

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

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

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

Application Number(s)	Filing Date (MM/DD/YYYY)

Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

Please type a plus sign (+) inside this box →

PTO/SB/01 (10-00)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: Customer Number or Bar Code Label OR Correspondence address below

Name **Charles J. Prescott**

Address **2033 Wood Street, Suite 115**

Address

City **Sarasota**

State **Florida**

ZIP **34237**

Country **US**

Telephone **(941) 957-4208**

Fax **(941) 957-4210**

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

NAME OF SOLE OR FIRST INVENTOR:

A petition has been filed for this unsigned inventor

Given Name

(first and middle [if any]) **Chad**

Family Name
or Surname

Williams

Inventor's
Signature

Date **12/12/02**

Residence: City **Sarasota**

State **FL**

Country **US**

Citizenship **US**

Mailing Address **2075 47th Street**

Mailing Address

City **Sarasota**

State **Florida**

ZIP **34234**

Country **US**

NAME OF SECOND INVENTOR:

A petition has been filed for this unsigned inventor

Given Name

(first and middle [if any]) **Jeff**

Family Name
or Surname

DuVal

Inventor's
Signature

Date **12/17/02**

Residence: City **Sarasota**

State **FL**

Country **US**

Citizenship **US**

Mailing Address **1637 Oak Street, #23**

Mailing Address

City **Sarasota**

State **Florida**

ZIP **34236**

Country **US**

Additional inventors are being named on the ___ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

PATENT APPLICATION SERIAL NO. 10| 323170

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

12/23/2002 MAHMED1 00000026 10323170

01 FC:2001

370.00 0P

PTO-1556
(5/87)

PATENT APPLICATION FEE DETERMINATION RECORD

Effective October 1, 2001

Application or Docket Number

10323170

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	12	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	12 minus 20 = *	φ
INDEPENDENT CLAIMS	3 minus 3 = *	φ
MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/>		

SMALL ENTITY TYPE

OR OTHER THAN SMALL ENTITY

RATE	FEE
BASIC FEE	370.00
X\$ 9=	
X42=	
+140=	
TOTAL	370

RATE	FEE
BASIC FEE	740.00
X\$18=	
X84=	
+280=	
TOTAL	

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

CLAIMS AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total *	Minus **	=
	Independent *	Minus ***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

SMALL ENTITY

OR OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total *	Minus **	=
	Independent *	Minus ***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total *	Minus **	=
	Independent *	Minus ***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

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

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."

***If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."

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

APPLICATION DATA SHEET

APPLICATION INFORMATION

Application Type:: Regular
Subject Matter:: Utility
Suggested Classification::
Suggested Group Art Unit::
CD-ROM or CD-R?:: None
Title:: Personal Mobility Vehicle Lift
Attorney Docket Number:: P-1826
Request for Early Publication?:: No
Request for Non-Publication?:: Yes
Suggested Drawing Figure:: 1
Total Drawing Sheets:: 4
Small Entity?:: Yes
Petition Included?:: No
Secrecy Order in Parent Appl.?:: No

APPLICANT INFORMATION

Applicant Authority Type:: Inventor
Primary Citizenship Country:: US
Status:: Full Capacity

Inventor One Given Name:: Chad
Inventor One Family Name:: Williams
City of Residence:: Sarasota
State of Residence: Florida
Country of Residence:: US
Street of Mailing Address:: 2075 47th Street
City of Mailing Address:: Sarasota
State of Mailing Address:: Florida
Postal or Zip Code of Mailing Address:: 34234
Applicant Two Authority Type:: Inventor
Primary Citizenship Country:: US
Status:: Full Capacity
Given Name:: Jeff
Family Name:: DuVal
City of Residence:: Sarasota
State of Residence: Florida
Country of Residence:: US
Street of Mailing Address:: 1637 Oak Street, #23
City of Mailing Address:: Sarasota
State of Mailing Address:: Florida

Country of Mailing Address:: US

Postal or Zip Code of Mailing Address:: 34236

CORRESPONDENCE INFORMATION

Name:: Charles J. Prescott, P.A.

Street of Mailing Address:: 2033 Wood Street

Suite 115

City of Mailing Address:: Sarasota

State of Mailing Address:: FL

Postal or Zip Code of Mailing Address:: 34237

Telephone:: (941) 957-4208

Fax:: (941) 957-4210

E-Mail Address:: cj.prescott@verizon.net

REPRESENTATIVE INFORMATION

Representative Customer

Number:: 30650

12-20-02

A

12/18/02
1000 U.S. PTO

Please type a plus sign (+) inside this box

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	P-1826
First Inventor	Chad Williams
Title	Personal Mobility Vehicle Lift
Express Mail Label No.	EV 018593406US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.
See 37 CFR 1.27.
- Specification [Total Pages]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets]
- Oath or Declaration [Total Pages]
 - Newly executed (original or copy)
 - Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application. see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

- CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - Computer Readable Form (CRF)
 - Specification Sequence Listing on:
 - CD-ROM or CD-R (2 copies); or
 - paper
 - Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- Assignment Papers (cover sheet & document(s))
- 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)
- English Translation Document (if applicable)
- Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
- Preliminary Amendment
- Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- Certified Copy of Priority Document(s)
(if foreign priority is claimed)
- Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____

Prior application information: Examiner _____ Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label Correspondence address below

(Insert Country No. or attach bar code label here)

Name	Charles J. Prescott				
Address	2033 Wood Street, Suite 115				
City	Sarasota,	State	Florida	Zip Code	34237
Country	US	Telephone	(941) 957-4208	Fax	957-4210

Name (Print/Type)	Charles J. Prescott	Registration No. (Attorney/Agent)	30,316
Signature	<i>Charles Prescott</i>	Date	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PTO
S. 1903170
12/18/02

12/18/02

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<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2002</h2> <p style="font-size: small; margin: 0;">Patent fees are subject to annual revision.</p>	Complete if Known	
	Application Number	
	Filing Date	
	First Named Inventor	Chad Williams
	Examiner Name	
	Group Art Unit	
Attorney Docket No.	P-1826	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		
TOTAL AMOUNT OF PAYMENT	(\$) 370	

METHOD OF PAYMENT (check all that apply)

Check
 Credit card
 Money Order
 Other
 None

Deposit Account:
 Deposit Account Number: **16-2454**
 Deposit Account Name: **Charles J. Prescott**

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below
 Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify) _____					
*Reduced by Basic Filing Fee Paid				SUBTOTAL (3)	(\$)

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility filing fee	370
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
SUBTOTAL (1)				(\$)	370

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims		-20** =		X		=	
Independent Claims		-3** =		X		=	
Multiple Dependent						=	

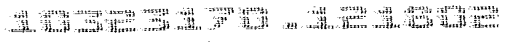
Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
109	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)				(\$)	

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Charles J. Prescott	Registration No. (Attorney/Agent)	30,316
Signature	<i>Charles J. Prescott</i>	Telephone	941-957-4208
		Date	12.18.02

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/35 (11-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

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REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)	First Named Inventor		Chad Williams
	Title	Personal Mobility Vehicle Lift	
	Atty Docket Number	P-1826	

I hereby 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 agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

12/12/02
Date

Signature

Chad Williams
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

APPLICATION DATA SHEET

APPLICATION INFORMATION

Application Type:: Regular
 Subject Matter:: Utility
 Suggested Classification::
 Suggested Group Art Unit::
 CD-ROM or CD-R?:: None
 Title:: Personal Mobility Vehicle Lift
 Attorney Docket Number:: P-1826
 Request for Early Publication?:: No
 Request for Non-Publication?:: Yes
 Suggested Drawing Figure:: 1
 Total Drawing Sheets:: 4
 Small Entity?:: Yes
 Petition Included?:: No
 Secrecy Order in Parent Appl.?:: No

APPLICANT INFORMATION

Applicant Authority Type:: Inventor
 Primary Citizenship Country:: US
 Status:: Full Capacity

Inventor One Given Name:: Chad
Inventor One Family Name:: Williams
City of Residence:: Sarasota
State of Residence: Florida
Country of Residence:: US
Street of Mailing Address:: 2075 47th Street
City of Mailing Address:: Sarasota
State of Mailing Address:: Florida
Postal or Zip Code of Mailing Address:: 34234
Applicant Two Authority Type:: Inventor
Primary Citizenship Country:: US
Status:: Full Capacity
Given Name:: Jeff
Family Name:: DuVal
City of Residence:: Sarasota
State of Residence: Florida
Country of Residence:: US
Street of Mailing Address:: 1637 Oak Street, #23
City of Mailing Address:: Sarasota
State of Mailing Address:: Florida

Country of Mailing Address:: US

Postal or Zip Code of Mailing Address:: 34236

CORRESPONDENCE INFORMATION

Name:: Charles J. Prescott, P.A.

Street of Mailing Address:: 2033 Wood Street

Suite 115

City of Mailing Address:: Sarasota

State of Mailing Address:: FL

Postal or Zip Code of Mailing Address:: 34237

Telephone:: (941) 957-4208

Fax:: (941) 957-4210

E-Mail Address:: cj.prescott@verizon.net

REPRESENTATIVE INFORMATION

Representative Customer
Number:: 30650

TITLE OF THE INVENTION

Personal Mobility Vehicle Lift

CROSS-REFERENCE TO RELATED APPLICATIONS

None

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

None

INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC

None

BACKGROUND OF THE INVENTION

Field of the Invention

This invention relates generally to lift mechanisms for a personal mobility vehicle (PMV) and more particularly to a lift for a PMV which is attachable to a class II or Class III trailer hitch attached to the rear of a vehicle.

Description of Prior Art

The popularity of self-propelled personal mobility vehicles (PMV) for use by the physically challenged is gaining in popularity. These PMV's are typically of a three or four wheeled design and are used by those physically challenged who are either able to ambulate short distances or who travel with a personal attendant able to assist in the loading and offloading of a PMV from a car trunk or a rear door of a van thus facilitating access by the physically challenged person during PMV use and storage.

Several patented prior art systems and apparatus for the storage and conveyance of a PMV when not in use are disclosed in the following prior U.S. patents:

- U.S. Patent No. 6,007,289 to Kruse, et al.
- U.S. Patent No. 5,114,120 to Bartelt, et al.
- U.S. Patent No. 4,741,660 to Kent
- U.S. Patent No. 4,705,448 to Mungons
- U.S. Patent No. 5,011,361 to Peterson
- U.S. Patent No. 5,8616,763 to Hamann et al.
- U.S. Patent No. 5,431,522 to Ross
- U.S. Patent No. 4,127,200 to Mann
- U.S. Patent No. 4,671,729 to McFarland
- U.S. Patent No. 6,386,410 to Van Dusen et al.
- U.S. Patent No. 4,697,975 to Lippold
- U.S. Patent No. 4,738,581 to Kuhlman
- U.S. Patent No. 5,752,799 to Carey et al.
- U.S. Patent No. 5,853,282 to Bechler et al.
- U.S. Patent 5,810,547 to Bruno et al.
- U.S. Patent 5,205,700 to Lin et al.
- U.S. Patent 5,431,526 to Peterson et al.

Of particular interest in these prior art devices, the invention taught by Bartelt in U.S. Patent 5,114,120 teaches an equipment mounting system which supportively engages with and depends upon support from a class II or class III trailer hitch attached to the back of the vehicle. These class II and class III trailer hitches typically provide a rectangular elongated cavity for receiving a closely similarly configured tongue of a trailer hitch. This equipment mounting system includes a pivotal leg which extends laterally

beyond the right side of the vehicle for deployment and pick up of equipment stored at the rear of the vehicle on this system.

Another notable prior art U.S. Patent 6,007,289 invented by Kruse teaches a wheelchair lift which is also attached to the rear trailer hitch structure attached to the rear of a vehicle. In this PMV lift, a lift support assembly is provided at the lower end of the upright stanchion so that a PMV may be loaded and offloaded onto a ground or sidewalk or road surface which is adjacent to and outboard from the side of the vehicle.

In depending upon the trailer hitch devices attached to the rear of such a conveyance vehicle, sufficient strength for lifting a PMV becomes an issue. The further from the center line of the vehicle and thus the trailer hitch mechanism that a PMV being lifted from or into the rear of the vehicle gets, the greater the torsional load being placed on the rectangular cavity and the trailer hitch itself. In the Bartelt disclosure, the equipment appears to be of relatively light weight nature, while the Kruse teaching depends for added strength upon this lift support assembly **26** to allow the apparatus to deploy and lift a PMV onto and from a surface which is substantially outboard or laterally disposed from the right side of the vehicle.

In the present invention, this load bearing limitation between the PMV lift and the trailer hitch itself is dealt with by strictly limiting the arch or rotational movement of the lifting boom about the upright axis of the stanchion so that no movement is permitted beyond a plane lying fore and aft to the vehicle and passing through the upright stanchion of the PMV lift itself.

BRIEF SUMMARY OF THE INVENTION

This invention is directed to a personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which the PMV lift is rigidly engageable. The PMV lift receives substantially all of its support from the trailer hitch and includes an elongated laterally extending lifting boom and a drive mechanism connected adjacent a proximal end thereof. The drive mechanism includes an elongated flexible lifting cable or belt which is operably connectable for raising and lowering the PMV by operation of the drive mechanism. An upright stanchion is supportively connected to the lifting boom while an elongated lift support arm is supportively connected to a lower end of the stanchion. A trailer hitch engaging member is connectable at one end to the trailer hitch, the other end of which is connected to and supports a proximal end of the lift support arm. The PMV lift and PMV are substantially supported entirely by the trailer hitch.

It is therefore an object of this invention to provide a PMV lift for loading and offloading a PMV into and from the rear portion of a vehicle by utilizing as a sole support for the PMV lift and PMV a class II or class III trailer hitch having a rectangular receiving cavity longitudinally disposed there through.

Still another object of this invention is to provide a PMV lift which solely depends upon the interengaging structure with a class II or class III trailer hitch for its support and which limits the amount of stress placed on the trailer hitch by preventing actuate movement of the lifting boom from exceeding a predetermined distance from the center line of the vehicle and the trailer hitch itself.

In accordance with these and other objects which will become apparent hereinafter, the instant invention will now be described with reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S)

Figure 1 is a perspective view of the invention.

Figure 2 is a perspective view of the invention attached to the rear of a vehicle and in use in deploying a personal mobility vehicle (PMV).

Figure 3 is a perspective view of an alternate embodiment of the invention.

Figure 4 is a perspective view of the rotation limit collar shown in the embodiments of Figures 1 and 3.

Figure 5 is a top plan schematic view of the rotational limiting movement of the lifting boom of the invention.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings, the preferred embodiment of the invention is there shown generally at numeral **10** in Figures 1 and 2. This personal mobility vehicle (PMV) lift **10** is structured for the loading and offloading of a personal mobility vehicle (PMV) shown generally at **P** in Figure 2. The PMV **P** is to be offloaded from a floor surface **G** of a vehicle **V** with the rear door **H** or trunk deck lid (not shown) in the open position. The PMV **P** is thus deployable from the floor **G** to the ground as shown in Figure 2 for use and then reloaded from the ground back onto the floor surface **G** for storage and conveyance.

The PMV lift **10** includes a lifting boom **12** having a power drive unit **20** attached adjacent the proximal end housing **22** thereof. The drive mechanism **20** includes a drive motor of a conventional battery powered nature engaged with a gear set (not shown) to

rotate a drum or spool (also not shown) whereby a flexible cable or belt **24** is extended downwardly and lifted upwardly in the direction of arrow **A** about distal end roller **42** by appropriate operation of the drive mechanism **20**.

A hook or attaching means **26** is provided at the distal end of the flexible cable or belt **24** which is attachable to a lifting harness **J** shown in Figure 2 attached to the PMV **P**.

The proximal end housing **22** of the lifting boom **12** includes an elongated upright cylindrical cavity for receiving an upper end of an elongated cylindrical stanchion **14** which is fabricated of suitably sized steel tubing. By clamping means, the lifting boom **12** is positionable vertically in the direction of arrow **B** on the upright stanchion **14**. Spaced apart NYLON or DELRIN upper and lower bushings (not shown) positioned between the proximal end housing **22** and the upper end of the stanchion **14** reduce rotational friction.

A stationary lift support arm **16** includes an elongated horizontally disposed beam **30** having an upright cylindrical stanchion support housing **28** disposed at one end thereof. Braces **32** reinforce the rigid orthogonal connection between the support beam **30** and the upright stanchion support housing **28**. An upright offset member **34** is connected by clamping, slidable engagement to the other end of the elongated support beam **30** thus allowing adjustable lateral positioning of the support beam **30** in the direction of arrow **C** with respect to a trailer hitch engaging member **38**.

The distal end **40** of the trailer hitch engaging member is insertable into a conventional class II or class III trailer hitch **T** as seen in Figure 2. The cross sectional shape of the cavity provided by the trailer hitch **T** is closely mated and aligned with the outer rectangular surface of the elongated trailer hitch engaging member **38** whereby substantially no rotational movement about the longitudinal centerline **CL** of the vehicle **V**

is permitted. This singular support aspect is of the utmost importance to the present invention as substantially all of the weight-bearing function is borne by the strength of the class II or class III trailer hitch in receiving and supporting the downward and torsional load of not only the weight of the entire PMV lift **10**, but also that of the PMV **P**.

An alternate embodiment of the invention **10'** in Figure 3 is substantially identical to that described in Figures 1 and 2 except that the support beam **30** of the lift support arm **16'** is rigidly connected to the upper end of the stanchion support member **28'** with the strengthening bracing **32'** extending downwardly at an acute angle therebetween for added strength.

Referring now particularly to Figures 1, 4 and 5, a most important aspect of the invention is there shown with respect to limiting the stress placed upon the interengaging attachment between the trailer hitch **T** and the trailer hitch engaging member **38**. In initially deploying or storing the PMV **P** with respect to the floor **G**, the lifting boom **12** is inwardly disposed from the stanchion **14** and, because the PMV **P** is close to the centerline **CL** of the vehicle, very minimal torsional load is imposed on the interconnection between the trailer hitch engaging member **38** and the trailer hitch **T**. However, once the PMV **P** is positioned rearwardly of the vehicle **V** for either deployment or lifting of the PMV **P**, the distal end roller **42** and flexible cable or strap **24** are likely to be moved away from the centerline **CL** of the vehicle **V**. As described in prior art, this rotational movement of the lifting boom **12** which would position the PMV **P** beyond the side surface of the vehicle **V** and the upright stanchion **14** would dramatically increase the torsional or twisting load placed on the trailer hitch **T**.

To prevent such overstressing of the trailer hitch **T** and the interengaging contact with the trailer hitch engaging member **38**, the rotational movement of the lifting boom **12** is thus strictly limited to movement in the direction of arrow **D** in Figures 1 and 5 about the upright axis **E** of stanchion **14**. That is to say that the lifting boom **12** and the distal end portion of the flexible cable or strap **24** are prohibited from rotational movement beyond a fore-and-aft plane lying within line **M** which passes through the centerline **E** of the stanchion **14**. In other words, the lifting boom **12** cannot swing beyond a position which is further from the centerline **CL** of the trailer hitch **T** and trailer hitch engaging member **38** than that of the stanchion **14**.

To effect this rotational limitation of the lifting boom **12** on stanchion **14**, a rotation limit collar **46** as best seen in Figure 4 is provided. This collar **46** is lockably engageable onto the stanchion just above the stanchion support member **28** or **28'** and just below the proximal portion **22** of the lifting boom **12**. Attachment of each collar **46** is effected through threaded fasteners (not shown) in threaded openings **58** which bear against the outer surface of the stanchion **14** to secure the longitudinal spacing and rotational spacing of each collar **46**.

Stop surfaces **54** and **56** bear against stop members (not shown) attached to or integral with the proximal housing **22** and stanchion support **28** so as to effect the desired rotational limitation of the lifting boom **12** about the vertical axis **E** of stanchion **14** as previously described.

By this arrangement, the structural integrity of the trailer hitch **T** is not compromised or overstressed so long as the personal mobility vehicle **P** is deployed and

stored from a position which lies substantially between the longitudinal axis **CL** of the vehicle **V** and the upright axis **E** or **E'** of the stanchion **14**.

While the instant invention has been shown and described herein in what are conceived to be the most practical and preferred embodiments, it is recognized that departures may be made therefrom within the scope of the invention, which is therefore not to be limited to the details disclosed herein, but is to be afforded the full scope of the claims so as to embrace any and all equivalent apparatus and articles.

CLAIM OR CLAIMS

1. A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which said PMV lift is rigidly engageable and from which said PMV lift receives substantially total support, said PMV lift comprising:

an elongated laterally extending lifting boom and a drive mechanism connected adjacent a proximal end thereof, said drive mechanism including an elongated flexible lifting cable or belt extending downwardly from a distal end of said lifting boom, said drive mechanism operably connected to a proximal portion of said lifting cable or belt whereby a PMV attachable to a distal end of said lifting cable or belt and may be raised or lowered by operation of said drive mechanism;

an elongated upright stanchion supportively connected at an upper end thereof to the proximal end of said lifting boom;

an elongated lift support arm supportively connected at a distal end thereof to a lower end of said stanchion;

a trailer hitch engaging member connectable at a first end thereof to the trailer hitch, a second end of said trailer hitch engaging member connected to a proximal end of said lift support arm whereby said PMV lift is substantially fully supported by the trailer hitch;

a rotation stop mounted on said stanchion for limiting rotation of said lifting boom with respect to an upright axis of said stanchion between a first position within the rear of the vehicle whereby the PMV may be lowered or lifted with respect to the floor of the vehicle and a second position behind the vehicle whereby the PMV may be lowered to or lifted from the ground.

2. A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein: said lifting boom is vertically adjustable on said stanchion.
3. A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein: said lift support arm is laterally adjustable with respect to said trailer hitch engaging member.
4. A personal mobility vehicle (PMV) lift as set forth in Claim 1, wherein the trailer hitch includes a class II or III receiver having a straight rectangular receiving cavity and wherein:
said trailer hitch engaging member has an outside rectangular cross section configuration substantially closely mating within the receiving cavity of the trailer hitch preventing substantial axial rotation of said trailer hitch engaging member while positioned within the trailer hitch thus fully supporting said lift support arm from substantial rotation about a longitudinal axis of the trailer hitch.
5. A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which said

PMV lift is rigidly engageable and from which said PMV lift receives substantially total support, said PMV lift comprising:

an elongated laterally extending lifting boom and a drive mechanism connected adjacent a proximal end thereof, said drive mechanism including an elongated flexible lifting cable or belt extending downwardly from a distal end of said lifting boom, said drive mechanism operably connected to a proximal portion of said lifting cable or belt whereby a PMV attachable to a distal end of said lifting cable or belt and may be raised or lowered by operation of said drive mechanism;

an elongated upright stanchion supportively connected at an upper end thereof to the proximal end of said lifting boom;

an elongated lift support arm supportively connected at a distal end thereof to a lower end of said stanchion;

a trailer hitch engaging member connectable at a first end thereof to the trailer hitch, a second end of said trailer hitch engaging member connected to a proximal end of said lift support arm whereby said PMV lift is substantially fully supported by the trailer hitch;

a rotation stop mounted on said stanchion which limits rotation of said lifting boom about an upright axis of said stanchion whereby the distal end of said lifting boom is prevented from movement further from said trailer hitch engaging member than that of said stanchion.



6. A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein:
said lifting boom is vertically adjustable on said stanchion.
7. A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein:
said lift support arm is laterally adjustable with respect to said trailer hitch
engaging member.
8. A personal mobility vehicle (PMV) lift as set forth in Claim 5, wherein the
trailer hitch includes a class II or III receiver having a straight rectangular receiving
cavity and wherein:
said trailer hitch engaging member has an outside rectangular cross
section configuration substantially closely mating within the
receiving cavity of the trailer hitch preventing substantial axial
rotation of said trailer hitch engaging member while positioned
within the trailer hitch thus fully supporting said lift support arm from
substantial rotation about a longitudinal axis of the trailer hitch.
9. A personal mobility vehicle (PMV) lift for loading and offloading a personal
mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having a
trailer hitch rigidly attached to the rear of the vehicle to which said PMV lift is rigidly
engageable and from which said PMV lift receives substantially total support, said PMV
lift comprising:
a lifting boom having an elongated laterally extending arm and a drive
mechanism connected adjacent a proximal end thereof, said drive
mechanism including an elongated flexible lifting cable or belt
extending therefrom and downwardly from a distal end of said

lifting boom, said drive mechanism powering said lifting cable in and out with respect to said lifting boom;

an elongated upright stanchion supportively connected at an upper end thereof to the proximal end of said lifting boom;

an elongated lift support arm supportively connected at a distal end thereof to a lower end of said stanchion;

a trailer hitch engaging member connectable at a first end thereof to the trailer hitch, a second end of said trailer hitch engaging member connected to a proximal end of said lift support arm whereby said PMV lift is substantially fully supported by the trailer hitch;

a rotation which limits rotation of said lifting boom about an upright axis of said stanchion substantially further from the trailer hitch than a plane passing through the upright axis of said stanchion and oriented lengthwise to the vehicle.

10. A personal mobility vehicle (PMV) lift as set forth in Claim 9, wherein: said lifting boom is vertically adjustable on said stanchion.
11. A personal mobility vehicle (PMV) lift as set forth in Claim 9, wherein: said lift support arm is laterally adjustable with respect to said trailer hitch engaging member.
12. A personal mobility vehicle (PMV) lift as set forth in Claim 9, wherein the trailer hitch includes a class II or III receiver having a straight rectangular receiving cavity and wherein:

said trailer hitch engaging member has an outside rectangular cross section configuration substantially closely mating within the receiving cavity of the trailer hitch preventing substantial axial rotation of said trailer hitch engaging member while positioned within the trailer hitch thus fully supporting said lift support arm from substantial rotation about a longitudinal axis of the trailer hitch.

ABSTRACT OF THE DISCLOSURE

A personal mobility vehicle (PMV) lift for loading and offloading a personal mobility vehicle (PMV) into and from a rear portion of a vehicle, the vehicle having an interior floor and a trailer hitch rigidly attached to the rear of the vehicle to which the PMV lift is rigidly engageable. The PMV lift receives substantially all of its support from the trailer hitch and includes an elongated laterally extending lifting boom and a drive mechanism connected adjacent a proximal end thereof. The drive mechanism includes an elongated flexible lifting cable or belt which is operably connectable for raising and lowering the PMV by operation of the drive mechanism. An upright stanchion is supportively connected to the lifting boom while an elongated lift support arm is supportively connected to a lower end of the stanchion. A trailer hitch engaging member is connectable at one end to the trailer hitch, the other end of which is connected to a proximal end of the lift support arm. The PMV lift is substantially fully supported by the trailer hitch.

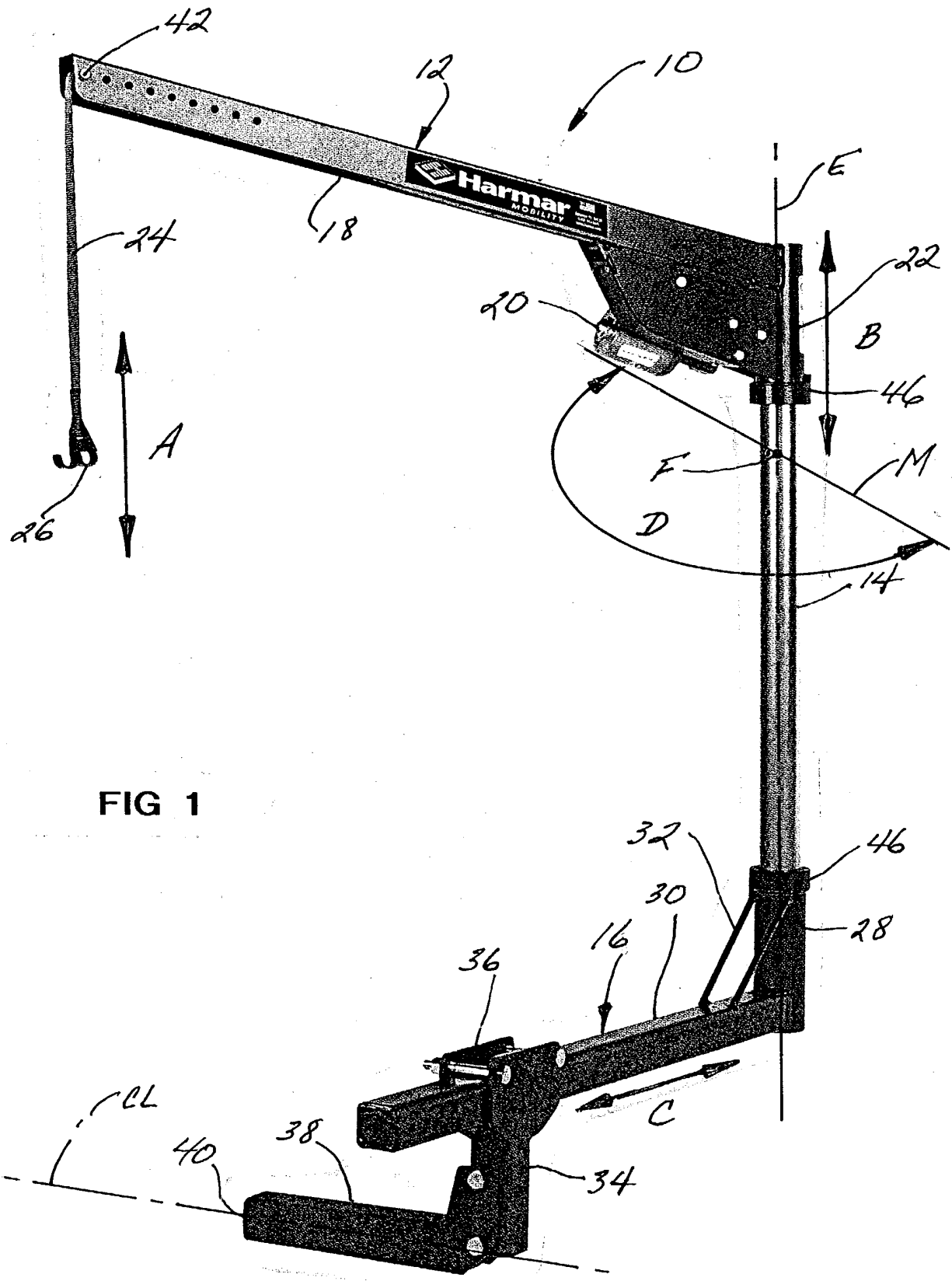
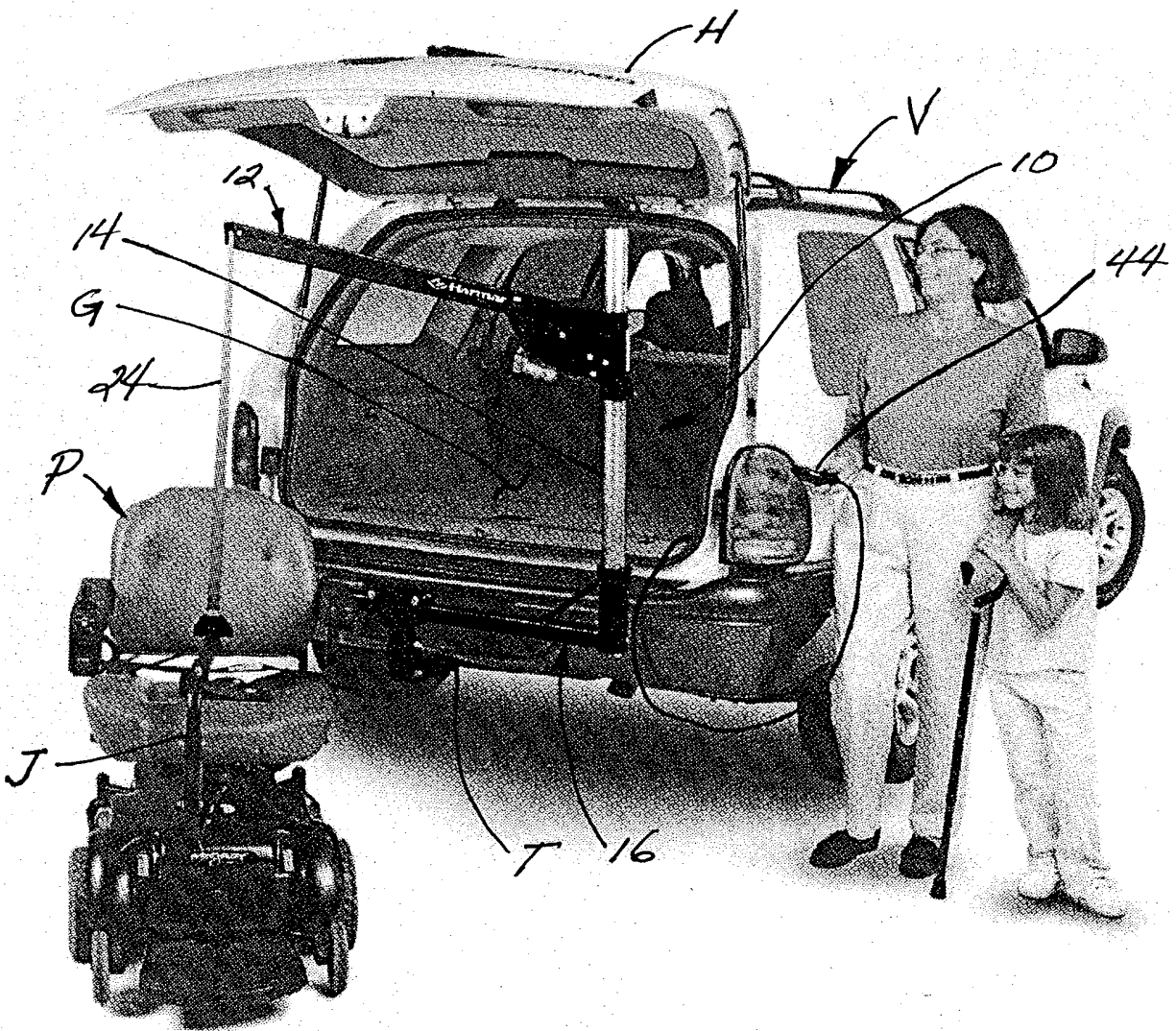


FIG 1

FIG 2



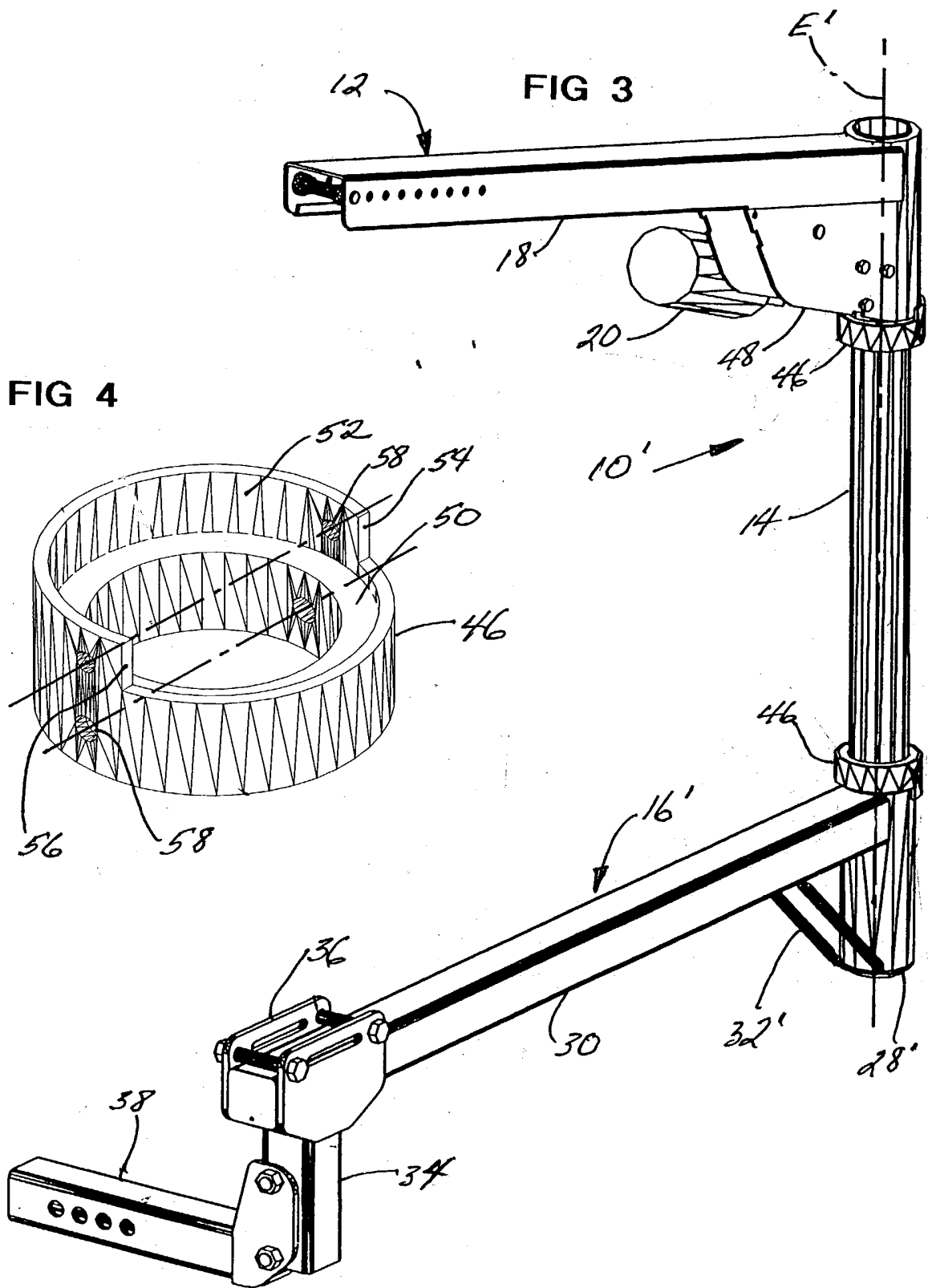
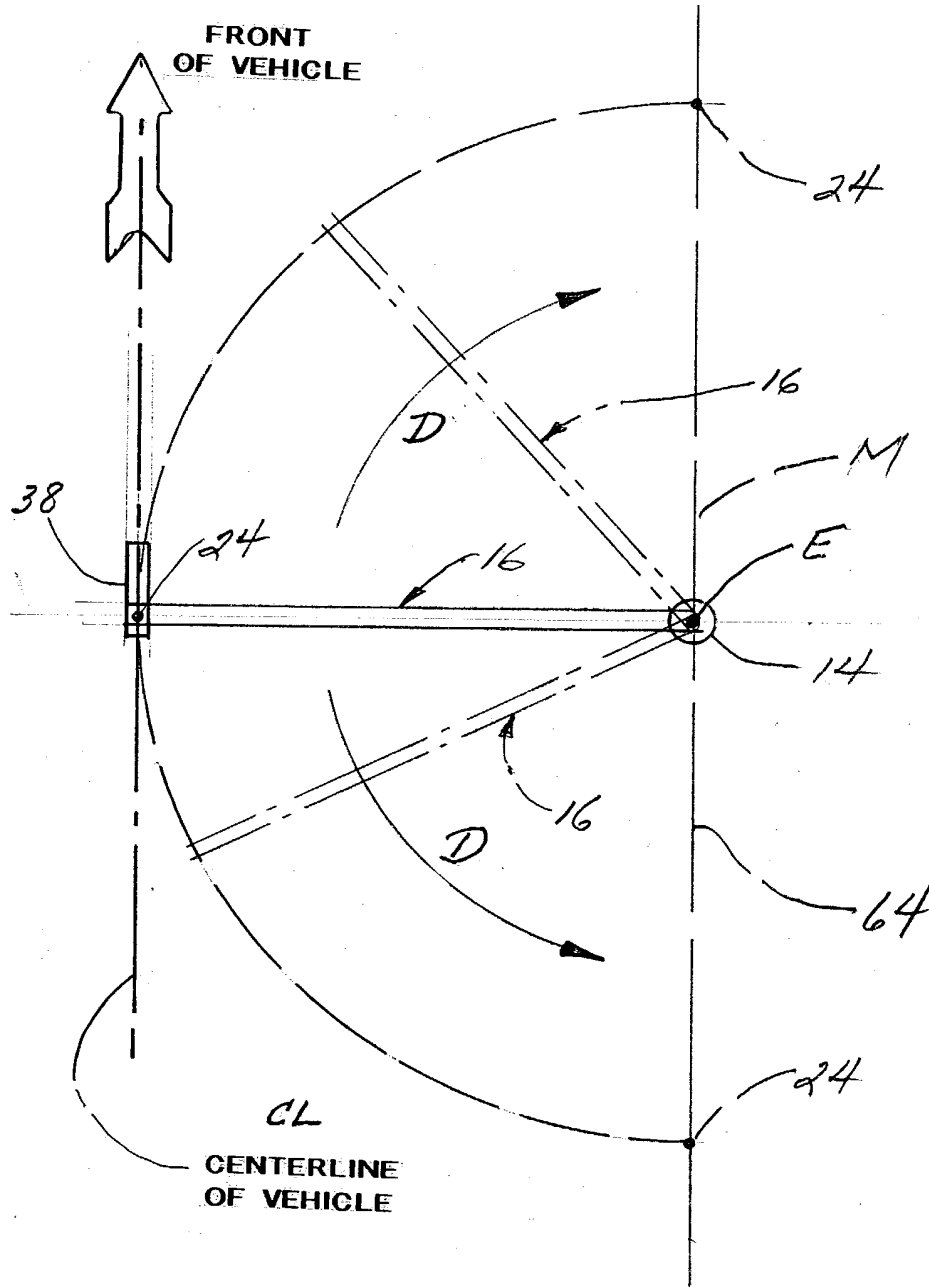


FIG 5



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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	P-1826
	First Named Inventor	Chad Williams
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
	Group Art Unit	
Examiner Name		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

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

Personal Mobility Vehicle Lift

(Title of the Invention)

the specification of which

is attached hereto
 OR
 was filed on (MM/DD/YYYY) as United States Application Number or PCT International Application Number and was amended on (MM/DD/YYYY) (if applicable).

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

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

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

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

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

Application Number(s)	Filing Date (MM/DD/YYYY)

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

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