



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/495,196	07/05/2022	11376971	10737-1-CON-9	3283
22442	7590	06/15/2022		
Sheridan Ross PC 1560 Broadway Suite 1200 Denver, CO 80202				

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

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

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

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

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

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

Calvin Shiening Wang, City of Industry, CA;
Chung-Hsin Wang, Shenzhen, CHINA;

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

PILOT INC., City of Industry, CA;

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	3283
22442	7590	06/13/2022	EXAMINER	
Sheridan Ross PC			BOWERS, BRANDON	
1560 Broadway				
Suite 1200				
Denver, CO 80202				
			ART UNIT	PAPER NUMBER
			2851	
			NOTIFICATION DATE	DELIVERY MODE
			06/13/2022	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):

e-docket@sheridanross.com

Corrected
Notice of Allowability

Application No.
17/495,196

Applicant(s)
Wang et al.

Examiner
BRANDON BOWERS

Art Unit
2851

AIA (FITF) Status
Yes

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the IDS submissions on 12 April 2022.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

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

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 20220412a, 20220412b.

3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____.

4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date. _____.

5. ☒ Examiner's Amendment/Comment

6. ☐ Examiner's Statement of Reasons for Allowance

7. ☐ Other _____.

/JACK CHIANG/
Supervisory Patent Examiner, Art Unit 2851

Continuation of 3. The allowed claim(s) is/are: 7-36 renumbered per 37 CFR 1.126

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Information Disclosure Statement

The information disclosure statements filed 12 April 2022 fail to comply with 37 CFR 1.98(a)(3)(i) because they do not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each reference listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRANDON BOWERS whose telephone number is (571)272-1888. The examiner can normally be reached Flex M-F 7am-6pm.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/B.B/
Examiner, Art Unit 2851

/JACK CHIANG/
Supervisory Patent Examiner, Art Unit 2851

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening Wang
				Art Unit	2851
				Examiner Name	LIN, Sun J.
Sheet	1	of	1	Attorney Docket Number	10737-1-COIN-9

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ ; Number ⁴ ; Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. ¹	
	1	DECISION Granting Institution of <i>Inter Partes</i> Review and Scheduling Order filed with SHENZHEN CHIC ELECTRICS CO., LTD., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01232 ; Filed on January 14, 2022 (27 pages)
	2	Patent Owner's Response to Petition Pursuant to 37 C.F.R. 42.120, including Exhibits 2001-2002 filed with SHENZHEN CHIC ELECTRICS CO., LTD., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01232 ; Filed on April 8, 2022 (713 pages)
	3	DECISION Granting Institution of <i>Inter Partes</i> Review and Scheduling Order filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01235 ; Filed on January 14, 2022 (35 pages)

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /B.B/

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening Wang
				Art Unit	2851
				Examiner Name	LIN, Sun J.
Sheet	1	of	1	Attorney Docket Number	10737-1-COIN-9

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ ; Number ⁴ ; Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. ¹	
	1	JUDGMENT - Final Written Decision Determining Some Challenged Claims Unpatentable Denying Motions to Exclude filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board; Record of Oral Hearing; Case No.: IPR 2020-00944 ; Filed on November 3, 2021 (108 pages)
	2	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board; Record of Oral Hearing; Case No.: IPR 2020-00944 ; Filed December 3, 2021 - February 16, 2022 (24 pages)
	3	Patent Owner's Response to Petition Pursuant to 27 C.F.R. 42.120, Patent Owner's Updated Exhibit List and Exhibits 2001-2009 filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-00777 ; Filed on December 30, 2021 and February 11, 2022 (345 pages)
	4	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452 ; Includes publicly available documents filed from October 6, 2021 - March 10, 2022; Docket Nos. 121-125; (27 pages)

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /B.B/

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening Wang
				Art Unit	2851
				Examiner Name	LIN, Sun J.
Sheet	1	of	1	Attorney Docket Number	10737-1-CON-9

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ ; Number ⁴ ; Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. ¹	
	1	DECISION Granting Institution of <i>Inter Partes</i> Review and Scheduling Order filed with SHENZHEN CHIC ELECTRICS CO., LTD., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01232 ; Filed on January 14, 2022 (27 pages)
	2	Patent Owner's Response to Petition Pursuant to 37 C.F.R. 42.120, including Exhibits 2001-2002 filed with SHENZHEN CHIC ELECTRICS CO., LTD., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01232 ; Filed on April 8, 2022 (113 pages)
	3	DECISION Granting Institution of <i>Inter Partes</i> Review and Scheduling Order filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01235 ; Filed on January 14, 2022 (35 pages)

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

Electronic Patent Application Fee Transmittal				
Application Number:		17495196		
Filing Date:		06-Oct-2021		
Title of Invention:		AUTOMOBILE CHARGER		
First Named Inventor/Applicant Name:		Calvin Shiening Wang		
Filer:		Jason Vick/Joanne Vos		
Attorney Docket Number:		10737-1-CON-9		
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:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
Total in USD (\$)				1460

Electronic Acknowledgement Receipt

EFS ID:	45453137
Application Number:	17495196
International Application Number:	
Confirmation Number:	3283
Title of Invention:	AUTOMOBILE CHARGER
First Named Inventor/Applicant Name:	Calvin Shiening Wang
Customer Number:	22442
Filer:	Jason Vick/Joanne Vos
Filer Authorized By:	Jason Vick
Attorney Docket Number:	10737-1-CON-9
Receipt Date:	12-APR-2022
Filing Date:	06-OCT-2021
Time Stamp:	12:42:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$1460
RAM confirmation Number	E20224BC43180730
Deposit Account	191970
Authorized User	Joanne Vos
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	Issue Fee Payment (PTO-85B)	ISSUE_FEE_PAYMENT_10737-1-CON-9.pdf	1596307	no	1
			a57d741679d99c7918c941834dd7fce3f3b880ef		
Warnings:					
Information:					
2	Post Allowance Communication - Incoming	Comments_on_Reason_for_Allowance.pdf	148509	no	3
			9ea2e994e98714017bdf1d2e9b36b69d511ca05b		
Warnings:					
Information:					
3		IDS_02_Non-Compliant_IDS.pdf	220307	yes	3
			52629824fce8632c9403887c86b8bdac88da546e		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	3	
Warnings:					
Information:					
4	Non Patent Literature	PART_020_IPR_2020-00944.pdf	2171260	no	108
			f3551dea7d5621b125f751537a0eb27e075238e8		
Warnings:					
Information:					
5	Non Patent Literature	PART_021_IPR_2020-00944.pdf	360851	no	24
			3a5e5132e2107ee10f14730a5d6da08733f3fba4		
Warnings:					
Information:					

6	Non Patent Literature	PART_005_IPR2021-00777.pdf	17239023	no	345
			cd899eb392ca9695fef4c1e592fe0e0ca25f2091		
Warnings:					
Information:					
7	Non Patent Literature	PART_0005_NOCO.pdf	598689	no	27
			ba5446575e826c1d19878188ca944d72792d1c67		
Warnings:					
Information:					
8		IDS_03.pdf	230725	yes	4
			f7929a0a67ad63082d330cc1757511ac0a69662a		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Letter specifying the conditions for filing under 37 CFR 1.97		1	3	
	Information Disclosure Statement (IDS) Form (SB08)		4	4	
Warnings:					
Information:					
9	Non Patent Literature	PART_003_IPR_2021-01232.pdf	685719	no	27
			72f1f46cddac4dbe2202bdbfd668b72eb3477f2c		
Warnings:					
Information:					
10	Non Patent Literature	PART_004_IPR_2021-01232.pdf	2592260	no	113
			d6203d03ce14b39ca4dff38d2fe3b698f35327d4		
Warnings:					
Information:					
11	Non Patent Literature	PART_003_IPR2021-01235.pdf	1001839	no	35
			41cf857c963883b462276ffbd560f5008834fb29		
Warnings:					
Information:					

12	Fee Worksheet (SB06)	fee-info.pdf	40427 1ed07608b91faeaa51f50fc617247ba7ce0365c	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			26885916		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

PART B - FEE(S) TRANSMITTAL

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

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

By fax, send to: (571)-273-2885

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

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

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

22442 7590 03/09/2022
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

Certificate of Mailing or Transmission

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

Joanne Vos	(Typed or printed name)
/Joanne Vos/	(Signature)
April 12, 2022	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	3283

TITLE OF INVENTION: AUTOMOBILE CHARGER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	06/09/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
LIN, SUN J	2851	320-109000

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/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

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

1 Jason H. Vick
2 Sheridan Ross, PC
3

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

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

(A) NAME OF ASSIGNEE

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

PILOT INC.

City of Industry, California

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

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

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

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

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 19-1970

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature /Jason H. Vick/

Date April 12, 2022

Typed or printed name Jason H. Vick

Registration No. 45,285

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: Calvin Shiening WANG	)	Group Art Unit: 2851
Application No.: 17/495,196	)	Examiner: Sun J. LIN
Filed: October 6, 2021	)	Confirmation No.: 3283
Atty. File No.: 10737-1-CON-9	)	
	)	

For: AUTOMOBILE CHARGER

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

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

Dear Commissioner:

Applicant submits this Comments on Statement of Reasons for Allowance to address the Notice of Allowability ("Notice") having a mailing date of March 9, 2022.

In the Notice, the Examiner's stated reasons for allowance were that:

Claims 7 – 36 are allowed because the prior art does not teach or fairly suggest the following subject matter:

- A jumpstarter comprising: **A BATTERY** connected to a voltage regulator, the battery capable of supplying power, via the voltage regulator, to at least one microcontroller, the battery also capable of supplying power to an automobile battery when the battery has at least one predetermined voltage; **A LOAD DETECTOR CIRCUIT** to detect when the jumpstarter is correctly connected to the automobile battery; said at least one microcontroller generating, when the battery has said at least one predetermined voltage, an output signal; and **SWITCHING CIRCUITRY**, including at least one switch, to operatively connect the battery to the automobile battery when said at least one microcontroller generates the output signal to supply a charging current to the automobile battery as recited in independent **Claim 7**,

- A jumpstarter comprising: **A FIRST BATTERY** connected to a voltage regulator, *the first battery* capable of supplying power, via *the voltage regulator*, to at least one microcontroller, *the battery* also capable of supplying power to an automobile battery when the first battery has at least one predetermined voltage; **A BATTERY LEVEL** detector to detect a level of *the first battery*; **A LOAD DETECTOR** to detect a type of connection of a load; **A MICROCONTROLLER** of said at least one microcontroller to generate an output signal only when the first battery has said at least one predetermined voltage; and **SWITCHING CIRCUITRY**, including at least one switch, to operatively connect *the first battery* to *the automobile battery* when *said at least one microcontroller* generates *the output signal* to supply a charging current to *the automobile battery* as recited in independent **Claim 23**;

- A jumpstarter comprising: **AN OUTPUT PORT** having a positive polarity output and a negative polarity output; **AN INTERNAL POWER SUPPLY** connected to a voltage regulator, *the internal power supply* capable of supply power, via *the voltage regulator*, to at least one microcontroller, *the internal power supply* also capable of supply power to *said output port* when *the internal power supply* has at least one predetermined voltage; **A LOAD DETECTION SENSOR** connected in circuit with *said positive polarity output* and *said negative polarity output*, configured to detect presence of a vehicle battery connected between *said positive polarity output* and *said negative polarity output*; **A REVERSE POLARITY SENSOR** connected in circuit with *said positive polarity output* and *said negative polarity output*, configured to detect polarity of *said vehicle battery* connected between *said positive polarity output* and *said negative polarity output* and to provide an output signal indicating whether a positive terminal and a negative terminal of *said vehicle battery* are properly connected with *said positive polarity output* and *said negative polarity output* of *said output port*; **A POWER SWITCH** connected between said internal power supply and said output port; and **A MICROCONTROLLER** of said at least one microcontroller configured to provide an output signal to *said power switch*, such that *said power switch* is turned on to cause *said internal power supply* to be connected to *said output port* in response to signals from *said load detection sensor* and *said reverse polarity sensor* indicating the presence of a vehicle battery at *said output port* and proper polarity connections of *the positive terminal* and *the negative terminal* of *said vehicle battery* with *said positive polarity output* and *said negative polarity output*, and is not turned on when signals from said load detection sensor and said reverse polarity sensor indicate either the absence of a vehicle battery at said output port or improper polarity connections of the positive terminal and the negative terminal of said vehicle battery with said positive polarity output and said negative polarity output as recited in independent **Claim 24**.

Applicant acknowledges Examiner's statements of Reasons for Allowance and agrees that the claimed subject matter is patentable. However, Applicant takes no position regarding the Reasons for Allowance presented by the Examiner other than the positions Applicant may have previously taken during prosecution. Therefore, the Reasons for Allowance should not be attributed to Applicant for any reason or as an indication of the bases for Applicant's belief that the claims are patentable. Furthermore, Applicant respectfully asserts that there may be additional or alternative reasons for patentability of the claimed subject matter not explicitly stated in this record and Applicant does not waive its rights to such arguments by not further addressing such reasons herein.

While the stated Reasons for Allowance may be a stated reason for allowing some independent claims, Applicant submits that some independent claims may have a different reason for allowance and that some independent claims may have other reasons for allowance.

Specifically, the prior art fails to teach the specific combination of features as recited in the independent claims 7, 23, and 24.

Although the Applicant believes that no fees are due for filing this Comments on Statement of Reasons for Allowance, please charge any fees deemed necessary to Deposit Account No. 19-1970.

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: April 12, 2022

By: /Jason H. Vick/
Jason H. Vick,
Reg. No. 45,285
1560 Broadway, Suite 1200
Denver, Colorado 80202
Telephone: 303-863-9700
jvick@sheridanross.com

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2851
Calvin Shiening Wang	)	Confirmation No.: 3283
Serial No.: 17/495,196	)	Examiner: LIN, Sun J
Filed: October 6, 2021	)	
Atty File No.: 10737-1-CON-9	)	<u>SUPPLEMENTAL</u>
Entitled: "AUTOMOBILE CHARGER"	)	<u>INFORMATION DISCLOSURE</u>
	)	<u>STATEMENT</u>
	)	
	)	Electronically Submitted

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

Dear Commissioner:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

- ☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.
- ☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.
- ☐ Copies of the cited U.S. patents/unpublished patent applications/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).
- ☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.
- ☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English translation/abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.
- ☐ Examiner's attention is drawn to the following related applications:
- Serial No. _____ filed _____ (Attorney Ref. No. _____)
- ☐ Other: _____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents

analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: April 12, 2022

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Denver, Colorado 80202
Telephone: 303-863-9700
jvick@sheridanross.com

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening Wang
				Art Unit	2851
				Examiner Name	LIN, Sun J.
Sheet	1	of	1	Attorney Docket Number	10737-1-CON-9

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ ; Number ⁴ ; Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. ¹	
	1	JUDGMENT - Final Written Decision Determining Some Challenged Claims Unpatentable Denying Motions to Exclude filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board; Record of Oral Hearing; Case No.: IPR 2020-00944 ; Filed on November 3, 2021 (108 pages)
	2	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board; Record of Oral Hearing; Case No.: IPR 2020-00944 ; Filed December 3, 2021 - February 16, 2022 (24 pages)
	3	Patent Owner's Response to Petition Pursuant to 27 C.F.R. 42.120, Patent Owner's Updated Exhibit List, and Exhibits 2001-2009 filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-00777 ; Filed on December 30, 2021 and February 11, 2022 (345 pages)
	4	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452 ; Includes publicly available documents filed from October 6, 2021 - March 10, 2022; Docket Nos. 121-125; (27 pages)

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2851
Calvin Shiening Wang	)	Confirmation No.: 3283
Serial No.: 17/495,196	)	Examiner: LIN, Sun J
Filed: October 6, 2021	)	
Atty File No.: 10737-1-CON-9	)	<u>SUPPLEMENTAL</u>
Entitled: "AUTOMOBILE CHARGER"	)	<u>INFORMATION DISCLOSURE</u>
	)	<u>STATEMENT</u>
	)	
	)	Electronically Submitted

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

Dear Commissioner:

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- ☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.
- ☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.
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- ☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.
- ☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English translation/abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.
- ☐ Examiner's attention is drawn to the following related applications:
- Serial No. _____ filed _____ (Attorney Ref. No. _____)
- ☐ Other: _____

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analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	37 CFR 1.97(c): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions: (1) a final action under 37 C.F.R. 1.113 or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(c). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of \$260.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☒	37 CFR 1.97(d): This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☒ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☒ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of \$260.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

Certification (37 C.F.R. 1.97(e))

(Applicable only if checked)

☒ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☒ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: April 12, 2022

By: /Jason H. Vick/

Jason H. Vick

Reg. No. 45,285

1560 Broadway, Suite 1200

Denver, Colorado 80202

Telephone: 303-863-9700

jvick@sheridanross.com

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:) Group Art Unit:
Calvin Shiening Wang) Confirmation No.: 3283
Serial No.: 17/495,196) Examiner:
Filed: October 6, 2021)
Atty File No.: 10737-1-CON-9) INFORMATION DISCLOSURE
Entitled: "AUTOMOBILE CHARGER") STATEMENT
) Electronically Submitted
)

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

Dear Commissioner:

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- ☒ Examiner's attention is drawn to the following related applications:
- Serial No. 14/569,352 filed Dec. 12, 2014 US Patent No. 9,525,297 (Attorney Ref. No. 10737-1)
 - Serial No. 15/355,409 filed Nov. 18, 2016 US Patent No. 10,046,653 (Attorney Ref. No. 10737-1-CON)

1 /SUN J LIN/ 03/19/2022

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/

- Serial No. 15/923,219 filed Mar. 16, 2018 US Patent No. 10,328,806 (Attorney Ref. No. 10737-1-CON-2)
- Serial No. 16/404,321 filed May 6, 2019 US Patent No. 10,875,410 (Attorney Ref. No. 10737-1-CON-3)
- Serial No. 17/131,113 filed Dec. 22, 2020 (Attorney Ref. No. 10737-1-CON-4)
- Serial No. 17/236,260 filed Apr. 21, 2021 US Patent No. 11,124,077 (Attorney Ref. No. 10737-1-CON-5)
- Serial No. 17/236,279 filed Apr. 21, 2021 (Attorney Ref. No. 10737-1-CON-6)
- Serial No. 17/236,302 filed Apr. 21, 2021 (Attorney Ref. No. 10737-1-CON-7)
- Serial No. 17/236,339 filed Apr. 21, 2021 US Patent No. 11,104,236 (Attorney Ref. No. 10737-1-CON-8)

☒ Other:

- PILOT, INC. v. WINPLUS NORTH AMERICA, INC.; U.S. District Court for the District Court of Colorado; Civil Action No. 1:17-cv-01183
- PILOT, INC. v. ANKER TECHNOLOGY CORPORATION; U.S. District Court for the District of Colorado; Civil Action No. 1:17-cv-01185
- PILOT, INC. v. WINPLUS NORTH AMERICA, INC.; U.S. District Court for the Central District of California; Civil Action No. 5:17-cv-01712
- PILOT, INC. v. ANKER TECHNOLOGY CORPORATION; U.S. District Court for the Northern District of California; Civil Action No. 4:17-cv-04918
- PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION; U.S. District Court for the Northern District of Texas Dallas Division; Civil Action No. 3:19-cv-01676
- PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:19-cv-05982
- PILOT, INC. v. GOOLOO TECHNOLOGY LLC and SHENZEN GOOLOO E-COMMERCE CO., LTD.; U.S. District Court Central District of California; Civil Action No. 2:19-cv-09485
- PILOT, INC. v. AUKEY TECHNOLOGY CO., LTD. and SHENZHEN AUKEY E-BUSINESS CO., LTD.; U.S. District Court Central District of California; Civil Action No. 2:19-cv-09486
- PILOT, INC. v. THE DURACELL COMPANY; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:20-cv-04054
- PILOT, INC. v. THE NOCO COMPANY, INC.; U.S. District Court for the District of Arizona; Civil Action No. 2:20-cv-01452

2 /SUN J LIN/ 03/19/2022

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/

- PILOT, INC. v. BATTERY-BIZ, INC.; U.S. District Court Central District of California; Civil Action No. 2:20-cv-10207
- PILOT, INC. v. BACCUS GLOBAL LLC; U.S. District Court for the Southern District of Florida West Palm Beach Division; Civil Action No. 9:21-cv-81009
- Inter Partes Review – WINPLUS NORTH AMERICA, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2018-00488
- Inter Partes Review – SHENZHEN CARKE TECHNOLOGY CO., LTD. v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2020-00944
- Inter Partes Review – THE NOCO COMPANY, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-00777
- Inter Partes Review – SHENZHEN CHIC ELECTRICS CO., LTD. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-01232
- Inter Partes Review – THE NOCO COMPANY, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-01235

/SUN J LIN/ 12/29/2021

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☒	37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or
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3

/SUN J LIN/ 03/19/2022

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/

	☒ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	37 CFR 1.97(c): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions: (1) a final action under 37 C.F.R. 1.113 or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of \$260.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
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Certification (37 C.F.R. 1.97(e)) (Applicable only if checked)	
☐	The undersigned certifies that: ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1). ☐ A copy of the communication from the foreign patent office is enclosed. OR

4

/SUN J LIN/ 03/19/2022

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: October 6, 2021

By: /Jason H. Vick/

Jason H. Vick
Reg. No. 45,285
1560 Broadway, Suite 1200
Denver, Colorado 80202
Telephone: 303-863-9700
jvick@sheridanross.com

/SUN J LIN/ 03/19/2022

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	3283
7590 Sheridan Ross PC 1560 Broadway Suite 1200 Denver, CO 80202			EXAMINER LIN, SUN J	
			ART UNIT	PAPER NUMBER
			2851	

DATE MAILED: 03/18/2022

FOREIGN PRIORITY ACKNOWLEDGMENT

☒ 1. Certified Copy Timely Received Before Payment of the Issue Fee:

Applicant previously submitted a claim for foreign priority under 35 U.S.C. 119(a)-(d) or (f).

☐ Certified copies of the priority documents have been received.

☒ Certified copies of the priority documents have been received in Application No. 14/569,352.

☐ Some of the certified copies of the priority documents have not been received: _____.

If the certified copy of a foreign application that has not been received is filed after the date the issue fee is paid, the patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and 37 CFR 1.323.

☐ 2. Certified Copy Received After Payment of the Issue Fee:

Applicant previously submitted a claim for foreign priority under 35 U.S.C. 119(a)-(d) or (f). Applicant submitted the certified copy after payment of the issue fee. The patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and 37 CFR 1.323.

Note: For utility or plant applications filed under 35 U.S.C. 111(a) on or after March 16, 2013, the certified copy may be timely received if the certified copy was filed within the later of four months from the filing date or sixteen months from the filing date of the prior foreign application (the 4/16 month time period) or if one of the exceptions in 37 CFR 1.55 (i.e., certified copy in a prior-filed nonprovisional application under 37 CFR 1.55(h), priority document exchange under 37 CFR 1.55(i), or interim copy under 37 CFR 1.55(j) is applicable. The 4/16 month time period does not apply to design applications.

571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Patents Stakeholder
Experience (OPSE)
Stakeholder Support Division (SSD)



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY.DOCKET NO./TITLE	REQUEST ID
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	160857

Acknowledgement of Loss of Entitlement to Entity Status Discount

The entity status change request below filed through Private PAIR on 03/09/2022 has been accepted.

CERTIFICATIONS:

Change of Entity Status:

☒ Applicant changing to regular undiscounted fee status.

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

This portion must be completed by the signatory or signatories making the entity status change in accordance with 37 CFR 1.4(d)(4).

Signature:	/Jason H. Vick/
Name:	Jason H. Vick
Registration Number:	45285



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
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NOTICE OF ALLOWANCE AND FEE(S) DUE

22442 7590 03/09/2022
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER

LIN, SUN J

ART UNIT

PAPER NUMBER

2851

DATE MAILED: 03/09/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	3283

TITLE OF INVENTION: AUTOMOBILE CHARGER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	06/09/2022

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

By fax, send to: (571)-273-2885

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

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

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

22442 7590 03/09/2022
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	3283

TITLE OF INVENTION: AUTOMOBILE CHARGER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	06/09/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
LIN, SUN J	2851	320-109000

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/AIA/122 or PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or 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, 1 _____
- (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. 2 _____
- 3 _____

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

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

(A) NAME OF ASSIGNEE

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

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

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

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

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

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

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	3283
22442	7590	03/09/2022	EXAMINER	
Sheridan Ross PC			LIN, SUN J	
1560 Broadway			ART UNIT	PAPER NUMBER
Suite 1200			2851	
Denver, CO 80202			DATE MAILED: 03/09/2022	

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 17/495,196	Applicant(s) Wang et al.	
	Examiner SUN J LIN	Art Unit 2851	AIA (FITF) Status Yes

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment & Remarks filed on 02/01/2022.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

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

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

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

/SUN J LIN/ Primary Patent Examiner, Art Unit 2851	
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Continuation of 3. The allowed claim(s) is/are: 7-36, renumbered (37 CFR 1.126)

Notice of AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file (FITF) provisions of the AIA.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

DETAILED ACTION

1. This office action is in response to *Amendment and Remarks & Terminal Disclaimer* concurrently filed on 02/01/2022 regarding patent application 17/495,196 AND Preliminary Amendment concurrently filed on 10/06/2021. *The Terminal Disclaimer has been approved and recorded.* Claims 1 – 6 were originally filed in the application. Claims 1 – 6 had been cancelled and Claims 7 – 36 had been added in the Preliminary Amendment. No claim has been cancelled and/or added in the current *Amendment* filed 02/01/2022. *Claims 7 – 36 remain pending in the application.*

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended, based on the *Amendment* filed on 02/01/2022, to correct the following informalities:

Claim 23, line 2, change "the battery" to **—the first battery—**.

Reasons for Allowance

3. Claims 7 – 36 are allowed over the prior art of record. An examiner's statement of reasons for allowance is given in the following:

Claims 7 – 36 are allowed because the prior art does not teach or fairly suggest the following subject matter:

- A jumpstarter comprising: **A BATTERY** connected to a voltage regulator, the battery capable of supplying power, via the voltage regulator, to at least one microcontroller, the battery also capable of supplying power to an automobile battery when the battery has at least one predetermined voltage; **A LOAD DETECTOR CIRCUIT** to detect when the jumpstarter is correctly connected to the automobile battery; said at least one microcontroller generating, when the battery has said at least one predetermined voltage, an output signal; and **SWITCHING CIRCUITRY**, including at least one switch, to operatively connect the battery to the automobile battery when said at least one microcontroller generates the output signal to supply a charging current to the automobile battery as recited in independent **Claim 7**;
- A jumpstarter comprising: **A FIRST BATTERY** connected to a voltage regulator, the first battery capable of supplying power, via the voltage regulator, to at least one microcontroller, the battery also capable of supplying power to an automobile battery when the first battery has at least one predetermined voltage; **A BATTERY LEVEL** detector to detect a level of the first battery; **A LOAD DETECTOR** to detect a type of connection of a load; **A MICROCONTROLLER** of said at least one microcontroller to generate an output signal only when the first battery has said at least one predetermined voltage; and **SWITCHING CIRCUITRY**, including at least one switch, to operatively connect the first battery to the automobile battery when said at least one microcontroller generates the output signal to supply a charging current to the automobile battery as recited in independent **Claim 23**;
- A jumpstarter comprising: **AN OUTPUT PORT** having a positive polarity output and a negative polarity output; **AN INTERNAL POWER SUPPLY** connected to a voltage regulator, the internal power supply capable of supply power, via the voltage regulator, to at least one microcontroller, the internal power supply also capable of supply power to said output port when the internal power supply has at least one predetermined voltage; **A LOAD DETECTION SENSOR** connected in circuit with said positive polarity output and said negative polarity output, configured to detect presence of a vehicle battery connected between said positive polarity output and said negative polarity output; **A REVERSE POLARITY SENSOR** connected in circuit with said positive polarity output and said negative polarity output, configured to detect polarity of said vehicle battery connected between said positive polarity output and said negative polarity output and to provide an output signal indicating whether a positive terminal and a negative terminal of said vehicle battery are properly connected with said positive polarity output and said negative polarity output of said output port; **A POWER SWITCH** connected between said internal power supply and said output port; and **A MICROCONTROLLER** of said at least one

*microcontroller configured to provide an output signal to said power switch, such that said power switch is turned on to cause said internal power supply to be connected to said output port in response to signals from said load detection sensor and said reverse polarity sensor indicating the presence of a vehicle battery at said output port and proper polarity connections of the positive terminal and the negative terminal of said vehicle battery with said positive polarity output and said negative polarity output, and is not turned on when signals from said load detection sensor and said reverse polarity sensor indicate either the absence of a vehicle battery at said output port or improper polarity connections of the positive terminal and the negative terminal of said vehicle battery with said positive polarity output and said negative polarity output as recited in independent **Claim 24**.*

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

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sun J. Lin whose telephone number is (571) 272-1899. The examiner can normally be reached on Monday to Friday from 9:00am to 6:00pm.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (in USA or CANADA) or 571-272-1000.

/SUN J LIN/
Primary Patent Examiner, Art Unit 2851

Index of Claims 	Application/Control No. 17/495,196	Applicant(s)/Patent Under Reexamination Wang et al.
	Examiner SUN J LIN	Art Unit 2851

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant						☒ CPA	☒ T.D.	☐ R.1.47		
CLAIM		DATE								
Final	Original	01/18/2022	02/13/2022							
	1	-	-							
	2	-	-							
	3	-	-							
	4	-	-							
	5	-	-							
	6	-	-							
1	7	✓	=							
2	8	✓	=							
3	9	✓	=							
6	10	✓	=							
4	11	✓	=							
7	12	✓	=							
8	13	✓	=							
9	14	✓	=							
5	15	✓	=							
10	16	✓	=							
11	17	✓	=							
12	18	✓	=							
13	19	✓	=							
14	20	✓	=							
15	21	✓	=							
16	22	✓	=							
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18	24	✓	=							
19	25	✓	=							
20	26	✓	=							
21	27	✓	=							
22	28	✓	=							
24	29	✓	=							
25	30	✓	=							
26	31	✓	=							
27	32	✓	=							
28	33	✓	=							
29	34	✓	=							
23	35	✓	=							
30	36	✓	=							

Issue Classification 	Application/Control No. 17/495,196	Applicant(s)/Patent Under Reexamination Wang et al.
	Examiner SUN J LIN	Art Unit 2851

CPC						
Symbol					Type	Version
B60L	/	53	/	00	F	2019-02-01
B60L	/	53	/	53	I	2019-02-01
H02J	/	7	/	0034	I	2013-01-01
H02J	/	7	/	0068	I	2013-01-01
H02J	/	7	/	0029	A	2013-01-01
H02J	/	9	/	005	A	2013-01-01
H02J	/	2207	/	20	A	2020-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/				

NONE (Assistant Examiner) (Date)		Total Claims Allowed: 30	
/SUN J LIN/ Primary Patent Examiner, Art Unit 2851 (Primary Examiner) (Date)		13 February 2022 O.G. Print Claim(s) 18	O.G. Print Figure 2

Issue Classification 	Application/Control No. 17/495,196	Applicant(s)/Patent Under Reexamination Wang et al.
	Examiner SUN J LIN	Art Unit 2851

INTERNATIONAL CLASSIFICATION			
CLAIMED			
B60L	/	53	/ 00
H02J	/	7	/ 00
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
320	109

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/SUN J LIN/ Primary Patent Examiner, Art Unit 2851 (Primary Examiner)	13 February 2022 (Date)	O.G. Print Claim(s) 18	O.G. Print Figure 2

Issue Classification 	Application/Control No. 17/495,196	Applicant(s)/Patent Under Reexamination Wang et al.
	Examiner SUN J LIN	Art Unit 2851

☐ Claims renumbered in the same order as presented by applicant ☒ CPA ☒ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	7	10	16	19	25	29	34								
2	8	11	17	20	26	23	35								
3	9	12	18	21	27	30	36								
6	10	13	19	22	28										
4	11	14	20	24	29										
7	12	15	21	25	30										
8	13	16	22	26	31										
9	14	17	23	27	32										
5	15	18	24	28	33										

NONE	Total Claims Allowed:					
(Assistant Examiner)	(Date)	30				
/SUN J LIN/ Primary Patent Examiner, Art Unit 2851 (Primary Examiner)	13 February 2022 (Date)	<table><tr><td>O.G. Print Claim(s)</td><td>O.G. Print Figure</td></tr><tr><td>18</td><td>2</td></tr></table>	O.G. Print Claim(s)	O.G. Print Figure	18	2
O.G. Print Claim(s)	O.G. Print Figure					
18	2					

Search Notes 	Application/Control No. 17/495,196	Applicant(s)/Patent Under Reexamination Wang et al.
	Examiner SUN J LIN	Art Unit 2851

CPC - Searched*		
Symbol	Date	Examiner
B60L53/00; B60L53/53; H02J7/0034; H02J7/0068	01/18/2022	/JSL/

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
320	109	01/18/2022	/JSL/

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

Search Notes		
Search Notes	Date	Examiner
US-PGPUB; USPAT; FIR; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	01/18/2022	/JSL/

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
320	109	02/13/2022	/JSL/

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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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 17/495,196		Filing Date 10/06/2021		☐ To be Mailed			
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO											
APPLICATION AS FILED - PART I											
		(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		x \$50 =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		x \$240 =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))											
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL					
APPLICATION AS AMENDED - PART II											
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	02/01/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 30	Minus	** 30	= 0	x \$50 =		0			
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$240 =		0			
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE		0	
AMENDMENT											
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =					
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =					
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								SLIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								/JULIET MCMILLAN/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".											
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: Calvin Shiening WANG	)	Group Art Unit: 2851
Application No.: 17/495,196	)	Examiner: Sun J. LIN
Filed: October 6, 2021	)	Confirmation No.: 3283
Atty. File No.: 10737-1-CON-9	)	

For: AUTOMOBILE CHARGER

AMENDMENT AND RESPONSE

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

Dear Commissioner:

Applicant submits this Amendment and Response to address the Office Action having a mailing date of January 24, 2022. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970.

Please amend the above-identified patent application as follows:

Amendments to the Abstract begin on page 2 of this paper.

Amendments to the Claims are shown in the listing of claims which begins on page 3 of this paper.

Remarks begin on page 8 of this paper.

Amendments to the Specification:

IN THE ABSTRACT:

Please amend the Abstract as follows:

ABSTRACT

A novel automobile charger which ~~comprise~~comprises a direct current voltage, wherein a positive pole of the direct current voltage is connected with one end or lead of a DC to DC module, one end of a battery voltage detection module and one end of a load module simultaneously, while a negative pole of ~~thea~~ battery is connected with the other end of the DC to DC module, one end of a microcontroller, one end of ~~thean~~ automobile start control module and the other end of the battery voltage detection module simultaneously. A third end of the DC to DC module is connected with the other end of the microcontroller, the other three ends of which are connected with ~~thea~~ third end of the battery voltage detection module, the other end of the automobile start control module and one end of ~~thea~~ load detection module respectively. The other end of the load detection module is connected with ~~thea~~ third end of the automobile start control module and the other end of the load module simultaneously.

Amendments to the Claims:

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

Listing of Claims:

1-6. (Cancelled)

7. (Currently Amended) A jumpstarter comprising:

a battery connected to a voltage regulator, the battery capable of supplying power, via the voltage regulator, to at least ~~some~~ microcontroller, the battery also capable of supplying power to an automobile battery when the battery has at least ~~a one~~ predetermined voltage;

a load detector circuit to detect when the jumpstarter is correctly connected to the automobile battery;

~~the said at least one~~ microcontroller generating, when the battery has said at least some predetermined voltage, an output signal; and

switching circuitry, including at least one switch, to operatively connect the battery to the automobile battery when ~~the said at least one~~ microcontroller generates the output signal to supply a charging current to the automobile battery.

8. (Previously Presented) The jumpstarter of claim 7, further comprising a battery voltage detector circuit to detect a battery voltage of the battery.

9. (Previously Presented) The jumpstarter of claim 7, wherein the at least one switch is one or more MOSFETs.

10. (Previously Presented) The jumpstarter of claim 7, wherein there are a plurality of switches.

11. (Previously Presented) The jumpstarter of claim 9, wherein the one or more MOSFETs are n-channel MOSFETs.

12. (Previously Presented) The jumpstarter of claim 7, wherein the at least one switch is a plurality of MOSFETs and wherein the plurality of MOSFETs are connected in parallel.

13. (Previously Presented) The jumpstarter of claim 7, further comprising a load detector to detect a reverse polarity connection to the automobile battery.

14. (Currently Amended) The jumpstarter of claim 7, wherein ~~the microprocessorsaid~~
at least one microcontroller includes a standby mode where all outputs are closed.

15. (Previously Presented) The jumpstarter of claim 9, wherein the plurality of MOSFETs are connected in a series-parallel topology.

16. (Previously Presented) The jumpstarter of claim 14, wherein the jumpstarter is not in a standby mode when the battery has more than 10 volts.

17. (Previously Presented) The jumpstarter of claim 7, further composing a start control module to stop supplying battery power when there is no load.

18. (Previously Presented) The jumpstarter of claim 7, wherein the at least one switch switches a negative voltage and the at least one switch is connected to a negative battery terminal.

19. (Previously Presented) The jumpstarter of claim 7, wherein the jumpstarter has a fast-charging function.

20. (Previously Presented) The jumpstarter of claim 7, further comprising a voltage back-flow protection.

21. (Previously Presented) The jumpstarter of claim 20, wherein the voltage back-flow protection is for an abnormal load.

22. (Currently Amended) The jumpstarter of claim 7, wherein ~~the~~said at least one microcontroller determines whether a battery state is suitable for a heavy current power generation.

23. (Currently Amended) A jumpstarter comprising:
a first battery connected to a voltage regulator, the battery capable of supplying power, via the voltage regulator, to at least ~~a~~one microcontroller, the first battery also capable of supplying power to an automobile battery when the first battery has at least ~~a~~one predetermined voltage;
a battery level detector to detect a level of ~~a~~the first battery;
a load detector to detect a type of connection of a load;
a microcontroller ~~of said at least one microcontroller~~ to generate an output signal only when the first battery has said at least a~~one~~ predetermined voltage; and
switching circuitry, including at least one switch, to operatively connect the first battery to the automobile battery when the microcontroller generates the output signal to supply a charging current to the automobile battery.

24. (Currently Amended) A jumpstarter comprising:
an output port having a positive polarity output and a negative polarity ~~output~~outputs;
an internal power supply connected to a voltage regulator, the internal power supply capable of supplying power, via the voltage regulator, to at least ~~a~~one microcontroller, the internal power supply also capable of supplying power to said output port when the internal power supply has at least ~~a~~one predetermined voltage;
a load detection sensor connected in circuit with said positive polarity output and said negative polarity ~~output~~outputs, configured to detect presence of a vehicle battery connected between said positive polarity output and said negative polarity ~~output~~outputs;
a reverse polarity sensor connected in circuit with said positive polarity output and said negative polarity ~~output~~outputs, configured to detect polarity of ~~a~~said vehicle battery connected between said positive polarity output and said negative polarity ~~output~~outputs and to provide an output signal indicating whether a positive terminal and a negative terminal~~terminals~~ of said

vehicle battery are properly connected with said positive polarity output and said negative polarity output of said output port;

a power switch connected between said internal power supply and said output port; and

a microcontroller of said at least one microcontroller configured to provide an output signal to said power switch, such that said power switch is turned on to cause said internal power supply to be connected to said output port in response to signals from said load detection sensor and said reverse polarity sensors indicating the presence of a vehicle battery at said output port and proper polarity connection of the positive terminal and the negative terminal of said vehicle battery with said positive polarity output and said negative polarity output, and is not turned on when signals from said load detection sensor and said reverse polarity sensors indicate either the absence of a vehicle battery at said output port or improper polarity connection of the positive terminal and the negative terminal of said vehicle battery with said positive polarity output and said negative polarity output.

25. (Previously Presented) The jumpstarter of claim 24, further comprising a voltage detector circuit to detect a voltage of the internal power supply.

26. (Previously Presented) The jumpstarter of claim 24, wherein there are a plurality of power switches.

27. (Previously Presented) The jumpstarter of claim 24, wherein the load detection sensor and the reverse polarity sensor are the same sensor.

28. (Previously Presented) The jumpstarter of claim 27, wherein the load detection sensor and the reverse polarity sensor are a voltage detector circuit.

29. (Currently Amended) The jumpstarter of claim 24, wherein the microprocessor microcontroller includes a standby mode where all outputs are closed.

30. (Previously Presented) The jumpstarter of claim 29, wherein the jumpstarter is not in a standby mode when the internal power supply has more than 10 volts.

31. (Previously Presented) The jumpstarter of claim 24, further composing a start control module to prevent supplying power when there is no load.

32. (Previously Presented) The jumpstarter of claim 24, wherein the power switch switches a negative voltage and the power switch is connected to a negative battery terminal.

33. (Previously Presented) The jumpstarter of claim 24, wherein the jumpstarter has a fast-charging function.

34. (Previously Presented) The jumpstarter of claim 24, further comprising a voltage back-flow protection.

35. (Previously Presented) The jumpstarter of claim 28, wherein the power switch switches a negative voltage and the power switch is connected to a negative battery terminal.

36. (Currently Amended) The jumpstarter of claim 24, wherein the microcontroller determines whether a battery state is suitable for a heavy current power generation.

REMARKS

Applicant respectfully requests reconsideration of this application, as amended.

Applicant Expressly thanks Ex. Lin for the indication that the claims are allowable.

As the Examiner's recommendations to address the various objections have been adopted herein, the application is in condition for allowance.

Applicant respectfully submits the double patenting rejection is moot in view of the Electronic Terminal Disclaimer in view of U.S. Patent Nos. 11,124,077; 10,875,410, and 11,104,236 filed and approved on February 1, 2022. Withdrawal of the rejection is respectfully requested.

With all objections and rejections having been overcome, Applicant respectfully submits the application is in condition for allowance.

A prompt notice of allowance is respectfully solicited.

Should the Examiner believe anything further is desirable in order to place the application in even better condition for allowance, the Examiner is encouraged to contact Applicants undersigned representative at the telephone number listed below.

The Commissioner is hereby authorized to charge to deposit account number 19-1970 any fees under 37 CFR § 1.16 and 1.17 that may be required by this paper and to credit any overpayment to that Account. If any extension of time is required in connection with the filing of this paper and has not been separately requested, such extension is hereby Petitioned.

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: February 1, 2022

By: /Jason H. Vick/
Jason H. Vick
Reg. No. 45,285
1560 Broadway, Suite 1200
Denver, Colorado 80202
Telephone: 303-863-9700
jvick@sheridanross.com

Electronic Acknowledgement Receipt

EFS ID:	44889089
Application Number:	17495196
International Application Number:	
Confirmation Number:	3283
Title of Invention:	AUTOMOBILE CHARGER
First Named Inventor/Applicant Name:	Calvin Shiening Wang
Customer Number:	22442
Filer:	Jason Vick/Joanne Vos
Filer Authorized By:	Jason Vick
Attorney Docket Number:	10737-1-CON-9
Receipt Date:	01-FEB-2022
Filing Date:	06-OCT-2021
Time Stamp:	13:50:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		AMEND_01.pdf	97900	yes	8
			19990edc507f879912f9ea464ac519cf7b52e2a1		

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Abstract	2	2
	Claims	3	7
	Applicant Arguments/Remarks Made in an Amendment	8	8
Warnings:			
Information:			
Total Files Size (in bytes):		97900	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.			

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	
Application Number	17495196	
Filing Date	06-Oct-2021	
First Named Inventor	Calvin Wang	
Attorney Docket Number	10737-1-CON-9	
Title of Invention	AUTOMOBILE CHARGER	
☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action ☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.		
Owner	Percent Interest	
Pilot Inc.	100%	
The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s) 11124077 11104236 10875410 as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns. In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later: - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.		

☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

☒ Small Entity

☐ Micro Entity

☐ Regular Undiscounted

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 Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

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

☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 45285

☐ A sole inventor

☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

☐ A joint inventor; all of whom are signing this request

Signature

/Jason H. Vick/

Name

Jason H. Vick

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal				
Application Number:		17495196		
Filing Date:		06-Oct-2021		
Title of Invention:		AUTOMOBILE CHARGER		
First Named Inventor/Applicant Name:		Calvin Shiening Wang		
Filer:		Jason Vick/Joanne Vos		
Attorney Docket Number:		10737-1-CON-9		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				170

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 17495196

Filing Date: 06-Oct-2021

Applicant/Patent under Reexamination: Wang

Electronic Terminal Disclaimer filed on February 1, 2022



APPROVED

This patent is subject to a terminal disclaimer



DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	44888530
Application Number:	17495196
International Application Number:	
Confirmation Number:	3283
Title of Invention:	AUTOMOBILE CHARGER
First Named Inventor/Applicant Name:	Calvin Shiening Wang
Customer Number:	22442
Filer:	Jason Vick/Joanne Vos
Filer Authorized By:	Jason Vick
Attorney Docket Number:	10737-1-CON-9
Receipt Date:	01-FEB-2022
Filing Date:	06-OCT-2021
Time Stamp:	13:45:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$170
RAM confirmation Number	E202221D45524972
Deposit Account	191970
Authorized User	Joanne Vos
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 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	41665	no	2
			77feaebe7990394e16402014d3f6546d4a515a77		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	38013	no	2
			107d9d54a84a153a0f38ecb5b1d0cdc269fb4997		

Warnings:

Information:

Total Files Size (in bytes):	79678
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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9

CONFIRMATION NO. 3283

PUBLICATION NOTICE



OC000000131409330

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

Title:AUTOMOBILE CHARGER

Publication No.US-2022-0024327-A1

Publication Date:01/27/2022

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	3283
22442	7590	01/24/2022	EXAMINER	
Sheridan Ross PC			LIN, SUN J	
1560 Broadway				
Suite 1200				
Denver, CO 80202				
			ART UNIT	PAPER NUMBER
			2851	
			NOTIFICATION DATE	DELIVERY MODE
			01/24/2022	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):

e-docket@sheridanross.com

Notice of AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file (FITF) provisions of the AIA.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

DETAILED ACTION

1. This office action is in response to application 17/495,196 and Preliminary Amendment concurrently filed on 10/06/2021. Claims 1 – 6 were originally filed in the application. Claims 1 – 6 have been cancelled and Claims 7 – 36 have3 newly been added in the Preliminary Amendment. Claims 7 – 36 remain pending in the application.

Specification Objections

2. The specification is objected to because of following informalities:

ABSTRACT, line 1, change “comprise” to **—comprises—**.

ABSTRACT, line 4, change “the battery” to **—a battery—**.

ABSTRACT, line 5 – 6, change “the automobile start control module” to **—an automobile start control module—**.

ABSTRACT, line 8, change “the third end” to **—a third end—**.

ABSTRACT, line 9 – 10, change “the load detection module” to **—a load detection module—**.

ABSTRACT, line 11, change “the third end” to **—a third end—**.

Appropriate corrections are required.

Claim Objections

3. Claims listed below are objected to because of the following informalities:

Claim 7, line 3, change “at least a microcontroller” to **—at least one microcontroller—**.

Claim 7, line 4, change “at least a predetermined voltage” to **—at least one predetermined voltage—**.

Claim 7, line 7, change “the microcontroller” to **—said at least one microcontroller—**.

Claim 7, line 7, change “at least a predetermined voltage” insert **—said at least one predetermined voltage—**.

Claim 7, line 10, change “the microcontroller” to **—said at least one microcontroller—**.

Claim 14, line 1, change “the microprocessor” to **—said at least one microcontroller—**.

Claim 22, line 1, change “the microcontroller” to **—said at least one microcontroller—**.

Claim 22, line 2, before “heavy current power generation” insert **—a—**.

Claim 23, line 3, change “at least a microcontroller” to **—at least one microcontroller—**.

Claim 23, line 4, change “at least a predetermined voltage” to **—at least one predetermined voltage—**.

Claim 23, line 5, change “a first battery” to **—the first battery—**.

Claim 23, line 7, after “a microcontroller” insert **—of said at least one microcontroller—**.

Claim 23, line 7 – 8, change “at least a predetermined voltage” to **—said at least one predetermined voltage—**.

Claim 24, line 2, change “positive and negative polarity outputs” to **—a positive polarity output and a negative polarity output—**.

Claim 24, line 4, change “at least a microcontroller” to **—at least one microcontroller—**.

Claim 24, line 6, change “at least a predetermined voltage” to **—at least one predetermined voltage—**.

Claim 24, line 7 – 8, change “said positive and negative polarity outputs” to **—said positive polarity output and said negative polarity output—**.

Claim 24, line 8 – 9, change “said positive and negative polarity outputs” to **—said positive polarity output and said negative polarity output—**.

Claim 24, line 10 – 11, change “said positive and negative polarity outputs” to **—said positive polarity output and said negative polarity output—**.

Claim 24, line 11, change “a vehicle battery” to **—said vehicle battery—**.

Claim 24, line 11 – 12, change “said positive and negative polarity outputs” to **—said positive polarity output and said negative polarity output—**.

Claim 24, line 12 – 13, change “positive and negative terminals” to **—a positive terminal and a negative terminal—**.

Claim 24, line 13 – 14, change “said positive and negative polarity outputs” to **—said positive polarity output and said negative polarity output—**.

Claim 24, line 16, after “a microcontroller” insert **—of said at least one microcontroller—**.

Claim 24, line 18, change “said sensors” to **—said load detection sensor and said reverse polarity sensor—**.

Claim 24, line 19, change “connection” to **—connections—**.

Claim 24, line 19, change "positive and negative terminals" to —**the positive terminal and the negative terminal**—.

Claim 24, line 20, change "said positive and negative polarity outputs" to —**said positive polarity output and said negative polarity output**—.

Claim 24, line 21, change "said sensors" to —**said load detection sensor and said reverse polarity sensor**—.

Claim 24, line 22, change "connection" to —**connections**—.

Claim 24, line 22, change "positive and negative terminals" to —**the positive terminal and the negative terminal**—.

Claim 24, line 22 – 23, change "said positive and negative polarity outputs" to —**said positive polarity output and said negative polarity output**—.

Claim 29, line 1, change "the microprocessor" to —**the microcontroller**—.

Claim 36, line 2, before "heavy current power generation" insert —**a**—.

Appropriate corrections are required.

Double Patenting Rejection

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Independent Claims 7, 23 and 24 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claim 1 of U.S. Patent No. 11,124,077 B2, Claim 1 of U.S. Patent No.10,875,410 B2 and Claim 1 of U.S. Patent No. 11,104,236 B2, respectively. Although the conflicting claims are not

all word-to-word identical, they are not patentably distinct from each other because they have similar land/or identical imitations.

Claims 8 – 22 and 25 – 36 are also rejected because of the deficiencies of their respective independent parent claims.

Examiner's Remarks

6. Based on results of preliminary prior art searches, Claims 7 – 36 contain allowable subject matters. Claims 7 – 36 will be allowed pending on 1 timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) can be used to overcome an actual double patenting rejection as explained in the “Double Patenting Rejection” given above, and results of further prior art searches.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *SUN J LIN* whose telephone number is (571)272-1899. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *Jack Chiang* can be reached on 571-272-7483/7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (in USA or CANADA) or 571-272-1000.

All responses to this Office Action should be mailed to ***Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450*** or faxed to ***571-273-8300***.

/SUN J LIN/
Primary Patent Examiner, Art Unit 2851

Notice of References Cited	Application/Control No. 17/495,196		Applicant(s)/Patent Under Reexamination Wang et al.	
	Examiner SUN J LIN		Art Unit 2851	Page 1 of 1

U.S. PATENT DOCUMENTS						
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-11043768-B1	06-2021	King et al.	H01R13/70	1/1
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

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

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

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

Search Notes 	Application/Control No. 17/495,196	Applicant(s)/Patent Under Reexamination Wang et al.
	Examiner SUN J LIN	Art Unit 2851

CPC - Searched*		
Symbol	Date	Examiner
B60L53/00; B60L53/53; H02J7/0034; H02J7/0068	01/18/2022	/JSL/

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
320	109	01/18/2022	/JSL/

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

Search Notes		
Search Notes	Date	Examiner
US-PGPUB; USPAT; FIR; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	01/18/2022	/JSL/

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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<i>Index of Claims</i> 	Application/Control No. 17/495,196	Applicant(s)/Patent Under Reexamination Wang et al.
	Examiner SUN J LIN	Art Unit 2851

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant					☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE								
Final	Original	01/18/2022								
	1	-								
	2	-								
	3	-								
	4	-								
	5	-								
	6	-								
	7	✓								
	8	✓								
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	34	✓								
	35	✓								
	36	✓								

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit:
Calvin Shiening Wang	)	Confirmation No.: 3283
Serial No.: 17/495,196	)	Examiner:
Filed: October 6, 2021	)	
Atty File No.: 10737-1-CON-9	)	<u>INFORMATION DISCLOSURE</u>
Entitled: "AUTOMOBILE CHARGER"	)	<u>STATEMENT</u>
	)	Electronically Submitted
	)	

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

Dear Commissioner:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

- ☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.
- ☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.
- ☒ Copies of the cited U.S. patents/unpublished patent applications/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).
- ☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.
- ☒ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English translation/abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.
- ☒ Examiner's attention is drawn to the following related applications:
- Serial No. 14/569,352 filed Dec. 12, 2014 US Patent No. 9,525,297 (Attorney Ref. No. 10737-1)
 - Serial No. 15/355,409 filed Nov. 18, 2016 US Patent No. 10,046,653 (Attorney Ref. No. 10737-1-CON)

- Serial No. 15/923,219 filed Mar. 16, 2018 US Patent No. 10,328,806 (Attorney Ref. No. 10737-1-CON-2)
- Serial No. 16/404,321 filed May 6, 2019 US Patent No. 10,875,410 (Attorney Ref. No. 10737-1-CON-3)
- Serial No. 17/131,113 filed Dec. 22, 2020 (Attorney Ref. No. 10737-1-CON-4)
- Serial No. 17/236,260 filed Apr. 21, 2021 US Patent No. 11,124,077 (Attorney Ref. No. 10737-1-CON-5)
- Serial No. 17/236,279 filed Apr. 21, 2021 (Attorney Ref. No. 10737-1-CON-6)
- Serial No. 17/236,302 filed Apr. 21, 2021 (Attorney Ref. No. 10737-1-CON-7)
- Serial No. 17/236,339 filed Apr. 21, 2021 US Patent No. 11,104,236 (Attorney Ref. No. 10737-1-CON-8)

☒ Other:

- PILOT, INC. v. WINPLUS NORTH AMERICA, INC.; U.S. District Court for the District Court of Colorado; Civil Action No. 1:17-cv-01183
- PILOT, INC. v. ANKER TECHNOLOGY CORPORATION; U.S. District Court for the District of Colorado; Civil Action No. 1:17-cv-01185
- PILOT, INC. v. WINPLUS NORTH AMERICA, INC.; U.S. District Court for the Central District of California; Civil Action No. 5:17-cv-01712
- PILOT, INC. v. ANKER TECHNOLOGY CORPORATION; U.S. District Court for the Northern District of California; Civil Action No. 4:17-cv-04918
- PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION; U.S. District Court for the Northern District of Texas Dallas Division; Civil Action No. 3:19-cv-01676
- PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:19-cv-05982
- PILOT, INC. v. GOOLOO TECHNOLOGY LLC and SHENZEN GOOLOO E-COMMERCE CO., LTD.; U.S. District Court Central District of California; Civil Action No. 2:19-cv-09485
- PILOT, INC. v. AUKEY TECHNOLOGY CO., LTD. and SHENZHEN AUKEY E-BUSINESS CO., LTD.; U.S. District Court Central District of California; Civil Action No. 2:19-cv-09486
- PILOT, INC. v. THE DURACELL COMPANY; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:20-cv-04054
- PILOT, INC. v. THE NOCO COMPANY, INC.; U.S. District Court for the District of Arizona; Civil Action No. 2:20-cv-01452

- PILOT, INC. v. BATTERY-BIZ, INC.; U.S. District Court Central District of California; Civil Action No. 2:20-cv-10207
- PILOT, INC. v. BACCUS GLOBAL LLC; U.S. District Court for the Southern District of Florida West Palm Beach Division; Civil Action No. 9:21-cv-81009
- Inter Partes Review – WINPLUS NORTH AMERICA, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2018-00488
- Inter Partes Review – SHENZHEN CAR KU TECHNOLOGY CO., LTD. v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2020-00944
- Inter Partes Review – THE NOCO COMPANY, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-00777
- Inter Partes Review – SHENZHEN CHIC ELECTRICS CO., LTD. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-01232
- Inter Partes Review – THE NOCO COMPANY, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-01235

/SUN J LIN/ 12/29/2021

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☒	37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or
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	☒ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	37 CFR 1.97(c): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions: (1) a final action under 37 C.F.R. 1.113 or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of \$260.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☐	37 CFR 1.97(d): This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☐ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☐ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of \$260.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

Certification (37 C.F.R. 1.97(e)) (Applicable only if checked)	
☐	The undersigned certifies that: ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1). ☐ A copy of the communication from the foreign patent office is enclosed. OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: October 6, 2021

By: /Jason H. Vick/

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Denver, Colorado 80202
Telephone: 303-863-9700
jvick@sheridanross.com

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2851
				Examiner Name	Lin, Sun J.
Sheet	1	of	15	Attorney Docket Number	10737-1-CON-9

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	3267452	08-16-1966	Wolf	
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Examiner Signature	/SUN J LIN/	Date Considered	12/29/2021
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2851
				Examiner Name	Lin, Sun J.
Sheet	2	of	15	Attorney Docket Number	10737-1-CON-9

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73	2005/0110467	05-26-2005	Thomason	

Examiner Signature	/SUN J LIN/	Date Considered	12/29/2021
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
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				Art Unit	2851
				Examiner Name	Lin, Sun J.
Sheet	3	of	15	Attorney Docket Number	10737-1-CON-9

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209	DECISION Institution of <i>Inter Partes</i> Review 35 U.S.C. § 314 (a) filed in WINPLUS NORTH AMERICA, INC. v. PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2018-00488 ; Filed on July 16, 2018 (31 pages)
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211	ORDER Granting Joint Motion to Terminate Proceeding and Granting Joint Request to Treat Settlement Agreement as Business Confidential Information 35 U.S.C. § 317; 37 C.F.R. § § 42.72, 42.74 filed in WINPLUS NORTH AMERICA, INC. v. PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2018-00488 ; Filed on November 16, 2018 (4 pages)
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219	DECISION Granting Institution of <i>Inter Partes</i> Review filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed on November 12, 2020 (84 pages)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2851
				Examiner Name	Lin, Sun J.
Sheet	13	of	15	Attorney Docket Number	10737-1-CON-9

231	Petition for Inter Partes Review of U.S. Patent No. 10,046,653, including Exhibits 1001-1014; Case No. IPR 2021-00777 , filed April 7, 2021 (617 pages)
232	Documents filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-00777 ; Filed between April 14 - April 30, 2021 (27 pages)
233	Decision Granting Institution of <i>Inter Partes</i> Review filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-00777 ; Filed on October 5, 2021 (14 pages)
234	Scheduling Order filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-00777 ; Filed on October 5, 2021 (11 pages)
235	Petition for Inter Partes Review of U.S. Patent No. 10,046,653 including Exhibits 1001-1011; Case No. IPR 2021-01232 , filed July 17, 2021 (737 pages)
236	Documents filed with SHENZHEN CHIC ELECTRICS CO., LTD., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01232 ; Filed between July 28, 2021 - August 5, 2021 (15 pages)
237	Petition for Inter Partes Review of U.S. Patent No. 10,328,806 including Exhibits 1001-1012; Case No. IPR 2021-01235 , filed July 7, 2021 (479 pages)
238	Documents filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01235 ; Filed between July 19 - July 29, 2021 (14 pages)
239	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. WINPLUS NORTH AMERICA, INC. ; U.S. District Court for the District of Colorado; Civil Action No. 1:17-cv-01183; Includes publicly available documents filed from May 12, 2017 - June 8, 2017; Docket Nos. 1-11; (36 pages)
240	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. ANKER TECHNOLOGY CORPORATION ; U.S. District Court for the District of Colorado; Civil Action No. 1:17-cv-01185; Includes publicly available documents filed from May 12, 2017 - June 9, 2017; Docket Nos. 1-11; (37 pages)
241	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. WINPLUS NORTH AMERICA, INC. ; U.S. District Court for the Central District of California; Civil Action No. 5:17-cv-01712; Includes publicly available documents filed from August 23, 2017- October 8, 2018; Docket Nos. 1-59; (593 pages)
242	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. ANKER TECHNOLOGY CORPORATION ; U.S. District Court for the Northern District of CALIFORNIA; Civil Action No. 4:17-cv-04918; Includes publicly available documents filed from August 23, 2017 - March 27, 2018; Docket Nos. 1-25; (130 pages)

Examiner Signature	/SUN J LIN/	Date Considered	12/29/2021
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2851
				Examiner Name	Lin, Sun J.
Sheet	14	of	15	Attorney Docket Number	10737-1-CON-9

243	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION ; U.S. District Court for the Northern District of Texas Dallas Division; Civil Action No. 3:19-cv-01676; Includes publicly available documents filed from July 12, 2019 - September 6, 2019; Docket Nos. 1-18; (560 pages)
244	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION ; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:19-cv-05982; Includes publicly available documents filed from September 6, 2019 - July 15, 2020; Docket Nos. 1-40; (1,233 pages)
245	Defendant Schumacher Electric Corporation's Corrected Initial Noninfringement, Invalidity and Unenforceability Contentions Pursuant to Local Patent Rule (LPR) 2.3 - Including Exhibits I.A - I.Q (REDACTED) for PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION ; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:19-cv-05982; Includes publicly available documents filed November 25, 2019 (729 pages)
246	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. GOOLOO TECHNOLOGY LLC and SHENZHEN GOOLOO E-COMMERCE CO. LTD. ; U.S. District Court for the Central District of California; Civil Action No. 2:19-cv-09485; Includes publicly available documents filed from November 4, 2019 - January 21, 2020; Docket Nos. 1-25; (581 pages)
247	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. AUKEY TECHNOLOGY CO. LTD. and SHENZHEN AUKEY E-BUSINESS CO., LTD. ; U.S. District Court for the Central District of California; Civil Action No. 2:19-cv-09486; Includes publicly available documents filed from November 4, 2019 - April 27, 2020; Docket Nos. 1-25; (585 pages)
248	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE DURACELL COMPANY ; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:20-cv-04054; Includes publicly available documents filed from July 10, 2020 - August 20, 2020; Docket Nos. 1-11; (663 pages)
249	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452; Includes publicly available documents filed from July 22, 2020 - April 21, 2021; Docket Nos. 1-78; (2,799 pages)
250	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452; Includes publicly available documents filed from April 22, 2021 - June 11, 2021; Docket Nos. 79-114; (1,676 pages)
251	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452; Includes publicly available documents filed on August 6, 2021; Docket No. 115; (19 pages)
252	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452; Includes publicly available documents filed from August 20, 2021 - September 15, 2021; Docket Nos. 116-120; (13 pages)

Examiner Signature	/SUN J LIN/	Date Considered	12/29/2021
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2851
				Examiner Name	Lin, Sun J.
Sheet	15	of	15	Attorney Docket Number	10737-1-CON-9

	253	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. BATTERY-BIZ, INC. ; U.S. District Court Central District of California; Civil Action No. 2:20-cv-10207; Includes publicly available documents filed from November 6, 2020 - January 29, 2021; Docket Nos. 1-35; (733 pages)
	254	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. Baccus Global LLC ; U.S. District Court for the Southern District of Florida West Palm Beach Division; Civil Action No. 9:21-cv-81009 ; Includes publicly available documents filed from June 7, 2021 - July 30, 2021; Docket Nos. 1-22; (1,543 pages)

Examiner Signature	/SUN J LIN/	Date Considered	12/29/2021
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSL/

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	9209	320/109	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 10:27 AM
L2	0	(320/109).cccls. AND (jumpstarter) AND (battery WITH (voltage ADJ regulator)) AND (microcontroller) AND (automobile ADJ battery) AND (predetermined ADJ voltage) AND (load ADJ detector) AND (switching ADJ circuitry)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 10:31 AM
L3	0	(320/\$).cccls. AND (jumpstarter) AND (battery WITH (voltage ADJ regulator)) AND (microcontroller) AND (automobile ADJ battery) AND (predetermined ADJ voltage) AND (load ADJ detector) AND (switching ADJ circuitry)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 10:31 AM
L4	2	(jumpstarter) AND (battery WITH (voltage ADJ regulator)) AND (microcontroller) AND	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2022/01/18 10:31 AM

L5	0	(automobile ADJ battery) AND (predetermined ADJ voltage) AND (load ADJ detector) AND (switching ADJ circuitry)	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 10:51 AM
L6	2	(jumpstarter) AND (battery WITH (voltage ADJ regulator)) AND (microcontroller) AND (automobile ADJ battery) AND (predetermined ADJ voltage) AND (load ADJ detector) AND ((battery ADJ level) ADJ detector) AND (switching ADJ circuitry)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 11:38 AM
L7	475	L4 AND ((B60L53/00 OR B60L53/53 OR H02J7/0034 OR H02J7/0068).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 11:39 AM
		(jumper OR jumpstarter) AND ((B60L53/00 OR B60L53/53 OR H02J7/0034 OR H02J7/0068).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,				

L8	0	(jumpstarter) AND (output ADJ port) AND (internal ADJ (power ADJ supply)) AND ((load ADJ detector) ADJ sensor) AND ((reverse ADJ polarity) ADJ sensor) AND (power ADJ switch) AND (microcontroller)	WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 11:49 AM
L9	1	(jumpstarter) AND (output ADJ port) AND (internal ADJ (power ADJ supply)) AND ((load ADJ detection) ADJ sensor) AND ((reverse ADJ polarity) ADJ sensor) AND (power ADJ switch) AND (microcontroller)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 11:51 AM
L10	0	((jumpstarter) AND (output ADJ port) AND (internal ADJ (power ADJ supply)) AND ((load ADJ detection) ADJ sensor) AND ((reverse ADJ polarity) ADJ sensor) AND (power ADJ switch) AND (microcontroller)).CLM.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/18 12:00 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.



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BIB DATA SHEET

CONFIRMATION NO. 3283

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
17/495,196	10/06/2021	320	2851	10737-1-CON-9		
APPLICANTS PILOT INC., City of Industry, CA; INVENTORS Calvin Shiening Wang, City of Industry, CA; Chung-Hsin Wang, Shenzhen, CHINA; ** CONTINUING DATA ***** This application is a CON of 17/131,113 12/22/2020 which is a CON of 16/404,321 05/06/2019 PAT 10875410 which is a CON of 15/923,219 03/16/2018 PAT 10328806 which is a CON of 15/355,409 11/18/2016 PAT 10046653 which is a CON of 14/569,352 12/12/2014 PAT 9525297 ** FOREIGN APPLICATIONS ***** CHINA 201420212173.5 04/28/2014 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 10/19/2021						
Foreign Priority claimed ☒ Yes ☐ No 35 USC 119(a-d) conditions met ☒ Yes ☐ No Verified and Acknowledged /SUN J LIN/ Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY CA	SHEETS DRAWINGS 2	TOTAL CLAIMS 30	INDEPENDENT CLAIMS 3
ADDRESS Sheridan Ross PC 1560 Broadway Suite 1200 Denver, CO 80202 UNITED STATES						
TITLE AUTOMOBILE CHARGER						
FILING FEE RECEIVED 2820	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/495,196	10/06/2021	Calvin Shiening Wang	10737-1-CON-9	3283
22442	7590	12/13/2021	EXAMINER	
Sheridan Ross PC			CENTRAL, DOCKET	
1560 Broadway				
Suite 1200				
Denver, CO 80202				
			ART UNIT	PAPER NUMBER
			OPAP	
			NOTIFICATION DATE	DELIVERY MODE
			12/13/2021	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):

e-docket@sheridanross.com

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 17/495,196	Applicant(s) Wang et al.	
	Examiner APRIL M WISE	Art Unit OPET	AIA (FITF) Status Yes
1. THE REQUEST FILED <u>06 October 2021</u> IS GRANTED . The above-identified application has met the requirements for prioritized examination A. ☒ for an original nonprovisional application (Track I). B. ☐ for an application undergoing continued examination (RCE). 2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs: A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply; B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim; C. filing a <u>request for continued examination</u> ; D. filing a notice of appeal; E. filing a request for suspension of action; F. mailing of a notice of allowance; G. mailing of a final Office action; H. completion of examination as defined in 37 CFR 41.102; or I. abandonment of the application. Telephone inquiries with regard to this decision should be directed to undersigned at (571)272-1642. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.			
/APRIL M WISE/ Paralegal Specialist, Office of Petition			

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 17/495,196				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320			
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800			
TOTAL CLAIMS (37 CFR 1.16(i))	30	minus 20 = * 10				x 100 =	1000			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 480 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	2820			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
17/495,196	10/06/2021	2685	2820	10737-1-CON-9	30	3

CONFIRMATION NO. 3283

FILING RECEIPT



0000000129203367

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

Date Mailed: 10/20/2021

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Calvin Shiening Wang, City of Industry, CA;
Chung-Hsin Wang, Shenzhen, CHINA;

Applicant(s)

PILOT INC., City of Industry, CA;

Power of Attorney: The patent practitioners associated with Customer Number 22442

Domestic Priority data as claimed by applicant

This application is a CON of 17/131,113 12/22/2020
which is a CON of 16/404,321 05/06/2019 PAT 10875410
which is a CON of 15/923,219 03/16/2018 PAT 10328806
which is a CON of 15/355,409 11/18/2016 PAT 10046653
which is a CON of 14/569,352 12/12/2014 PAT 9525297

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)
CHINA 201420212173.5 04/28/2014 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 10/19/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/495,196**

Projected Publication Date: 01/27/2022

Non-Publication Request: No

Early Publication Request: No
Title

AUTOMOBILE CHARGER

Preliminary Class

340

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

page 2 of 4

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 22442

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 22442

OR

☐ Firm or individual name		
Address		
City	State	Zip
Country		
Telephone	Email	

Assignee name and address: Pilot, Inc.
13000 Temple Avenue
City of Industry, CA 91746

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/95 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature	Date
Name	Telephone
Title	

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 1.11 and 1.14. This collection is estimated to take 18 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.

Electronic Acknowledgement Receipt	
EFS ID:	43965221
Application Number:	17495196
International Application Number:	
Confirmation Number:	3283
Title of Invention:	AUTOMOBILE CHARGER
First Named Inventor/Applicant Name:	Calvin Shiening Wang
Customer Number:	22442
Filer:	Jason Vick/Joanne Vos
Filer Authorized By:	Jason Vick
Attorney Docket Number:	10737-1-CON-9
Receipt Date:	06-OCT-2021
Filing Date:	
Time Stamp:	16:15:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	PART_0001_NOCO_01.pdf	6828124	no	270
			817b2b08864f1782c8581cd7e9c41e667d0bf663		
Warnings:					

Information:					
2	Non Patent Literature	PART_0001_NOCO_02.pdf	11787449	no	154
			fce03c13a3eb0d145c775d048e447515c578d0a2		
Warnings:					
Information:					
3	Non Patent Literature	PART_0001_NOCO_03.pdf	19976849	no	263
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Warnings:					
Information:					
4	Non Patent Literature	PART_0001_NOCO_04.pdf	13801662	no	171
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Warnings:					
Information:					
5	Non Patent Literature	PART_0001_NOCO_05.pdf	15597263	no	605
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6	Non Patent Literature	PART_0001_NOCO_06.pdf	13882474	no	320
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Warnings:					
Information:					
7	Non Patent Literature	PART_0001_NOCO_07.pdf	22224852	no	306
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Warnings:					
Information:					
8	Non Patent Literature	PART_0001_NOCO_08.pdf	18007877	no	437
			0886a86db13b9516ded71f77abc3608f30c5ce73		
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Information:					

9	Non Patent Literature	PART_0001_NOCO_09.pdf	20121101	no	273
			d63e50d5db513b9b89c3e1757ea557dffe94da00		
Warnings:					
Information:					
10	Non Patent Literature	PART_0002_NOCO_01.pdf	25331140	no	500
			63f10a085e1d88d03ec90d77e77f27e9c98ee371		
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11	Non Patent Literature	PART_0002_NOCO_02.pdf	16003082	no	300
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12	Non Patent Literature	PART_0002_NOCO_03.pdf	22048484	no	300
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13	Non Patent Literature	PART_0002_NOCO_04.pdf	12305667	no	200
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14	Non Patent Literature	PART_0002_NOCO_05.pdf	22048265	no	376
			22e9ab84e06bc31cd1e6443a78bcd9503a53d64e		
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15	Non Patent Literature	PART_0003_NOCO.pdf	344339	no	19
			a3813401da95ea4197ca7f3c1dc9ad5f7e7f1de6		
Warnings:					
Information:					

16	Non Patent Literature	PART_0004_NOCO.pdf	307671	no	13
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17	Non Patent Literature	PART_0001_BatteryBiz_01.pdf	26095688	no	270
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Information:					
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19	Non Patent Literature	PART_0001_BatteryBiz_03.pdf	16296548	no	251
			033282bf548c0bc9d030d1d7d947318d9c5eb617		
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Information:					
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Information:					
21	Non Patent Literature	PART_0001_BaccusGlobal_01.pdf	25452376	no	240
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			bd11662485dddc7317043db79e1deeaca8ba99b7		
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Information:					

23	Non Patent Literature	PART_0001_BaccusGlobal_03.pdf	19815257	no	200
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Information:					
24	Non Patent Literature	PART_0001_BaccusGlobal_04.pdf	24798907	no	200
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Warnings:					
Information:					
25	Non Patent Literature	PART_0001_BaccusGlobal_05.pdf	21271612	no	150
			13f0b0b2e3d40488c4866c15240825a07562f652		
Warnings:					
Information:					
26	Non Patent Literature	PART_0001_BaccusGlobal_06.pdf	25463491	no	250
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27	Non Patent Literature	PART_0001_BaccusGlobal_07.pdf	21635311	no	293
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Warnings:					
Information:					
28		IDS_01.pdf	333720	yes	20
			83d8cf328881f1664ae98964cf27b537f2bcb e7b		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Letter specifying the conditions for filing under 37CFR1.97		1	5	
	Information Disclosure Statement (IDS) Form (SB08)		6	20	
Warnings:					
Information:					

29		Statement_Under_373c_w_PO A.pdf	298278	yes	3
			a8b8b0646ffbf2457bbc88103a83af342bce d70d		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Assignee showing of ownership per 37 CFR 3.73		1	2	
	Power of Attorney		3	3	
Warnings:					
Information:					
Total Files Size (in bytes):			458760862		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	) Group Art Unit:
Calvin Shiening Wang	) Confirmation No.: 3283
Serial No.: 17/495,196	) Examiner:
Filed: October 6, 2021	)
Atty File No.: 10737-1-CON-9	) <u>INFORMATION DISCLOSURE</u>
Entitled: "AUTOMOBILE CHARGER"	) <u>STATEMENT</u>
	) Electronically Submitted
	)

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

Dear Commissioner:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

- ☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.
- ☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.
- ☒ Copies of the cited U.S. patents/unpublished patent applications/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).
- ☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.
- ☒ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English translation/abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.
- ☒ Examiner's attention is drawn to the following related applications:
- Serial No. 14/569,352 filed Dec. 12, 2014 US Patent No. 9,525,297 (Attorney Ref. No. 10737-1)
 - Serial No. 15/355,409 filed Nov. 18, 2016 US Patent No. 10,046,653 (Attorney Ref. No. 10737-1-CON)

- Serial No. 15/923,219 filed Mar. 16, 2018 US Patent No. 10,328,806 (Attorney Ref. No. 10737-1-CON-2)
- Serial No. 16/404,321 filed May 6, 2019 US Patent No. 10,875,410 (Attorney Ref. No. 10737-1-CON-3)
- Serial No. 17/131,113 filed Dec. 22, 2020 (Attorney Ref. No. 10737-1-CON-4)
- Serial No. 17/236,260 filed Apr. 21, 2021 US Patent No. 11,124,077 (Attorney Ref. No. 10737-1-CON-5)
- Serial No. 17/236,279 filed Apr. 21, 2021 (Attorney Ref. No. 10737-1-CON-6)
- Serial No. 17/236,302 filed Apr. 21, 2021 (Attorney Ref. No. 10737-1-CON-7)
- Serial No. 17/236,339 filed Apr. 21, 2021 US Patent No. 11,104,236 (Attorney Ref. No. 10737-1-CON-8)

☒ Other:

- PILOT, INC. v. WINPLUS NORTH AMERICA, INC.; U.S. District Court for the District Court of Colorado; Civil Action No. 1:17-cv-01183
- PILOT, INC. v. ANKER TECHNOLOGY CORPORATION; U.S. District Court for the District of Colorado; Civil Action No. 1:17-cv-01185
- PILOT, INC. v. WINPLUS NORTH AMERICA, INC.; U.S. District Court for the Central District of California; Civil Action No. 5:17-cv-01712
- PILOT, INC. v. ANKER TECHNOLOGY CORPORATION; U.S. District Court for the Northern District of California; Civil Action No. 4:17-cv-04918
- PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION; U.S. District Court for the Northern District of Texas Dallas Division; Civil Action No. 3:19-cv-01676
- PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:19-cv-05982
- PILOT, INC. v. GOOLOO TECHNOLOGY LLC and SHENZEN GOOLOO E-COMMERCE CO., LTD.; U.S. District Court Central District of California; Civil Action No. 2:19-cv-09485
- PILOT, INC. v. AUKEY TECHNOLOGY CO., LTD. and SHENZHEN AUKEY E-BUSINESS CO., LTD.; U.S. District Court Central District of California; Civil Action No. 2:19-cv-09486
- PILOT, INC. v. THE DURACELL COMPANY; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:20-cv-04054
- PILOT, INC. v. THE NOCO COMPANY, INC.; U.S. District Court for the District of Arizona; Civil Action No. 2:20-cv-01452

- PILOT, INC. v. BATTERY-BIZ, INC.; U.S. District Court Central District of California; Civil Action No. 2:20-cv-10207
- PILOT, INC. v. BACCUS GLOBAL LLC; U.S. District Court for the Southern District of Florida West Palm Beach Division; Civil Action No. 9:21-cv-81009
- Inter Partes Review – WINPLUS NORTH AMERICA, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2018-00488
- Inter Partes Review – SHENZHEN CAR KU TECHNOLOGY CO., LTD. v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2020-00944
- Inter Partes Review – THE NOCO COMPANY, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-00777
- Inter Partes Review – SHENZHEN CHIC ELECTRICS CO., LTD. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-01232
- Inter Partes Review – THE NOCO COMPANY, INC. v PILOT, INC.; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR2021-01235

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☒	37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or
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	☒ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	37 CFR 1.97(c): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions: (1) a final action under 37 C.F.R. 1.113 or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of \$260.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☐	37 CFR 1.97(d): This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☐ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☐ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of \$260.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

Certification (37 C.F.R. 1.97(e)) (Applicable only if checked)	
☐	The undersigned certifies that: ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1). ☐ A copy of the communication from the foreign patent office is enclosed. OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: October 6, 2021

By: /Jason H. Vick/

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1560 Broadway, Suite 1200
Denver, Colorado 80202
Telephone: 303-863-9700
jvick@sheridanross.com

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	
				Examiner Name	
Sheet	1	of	15	Attorney Docket Number	10737-1-CON-9

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	3267452	08-16-1966	Wolf	
	2	3343057	09-19-1967	Smith	
	3	3590357	06-29-1971	Reid	
	4	3950668	04-13-1976	Mattis et al.	
	5	3950688	04-13-1976	Sancey et al.	
	6	4871957	10-03-1989	Taranto et al.	
	7	5319298	06-07-1994	Wanzong et al.	
	8	5487002	01-23-1996	Diller et al.	
	9	5793185	08-11-1998	Prelec et al.	
	10	5831350	11-03-1998	McConkey et al.	
	11	6057667	05-02-2000	Mills	
	12	6130519	10-10-2000	Whiting et al.	
	13	6144110	11-07-2000	Matsuda et al.	
	14	6160381	12-12-2000	Peterzell	
	15	6212054	04-03-2001	Chan	
	16	6249106	06-19-2001	Turner et al.	
	17	6262492	07-17-2001	Sheng	
	18	6271605	08-07-2001	Carkner et al.	
	19	6344733	02-05-2002	Crass et al.	
	20	6351102	02-26-2002	Troy	
	21	6362599	03-26-2002	Turner et al.	
	22	6424158	07-23-2002	Klang	
	23	6426606	07-30-2002	Purkey	
	24	6459175	10-01-2002	Potega	
	25	6632103	10-14-2003	Liu	
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219	DECISION Granting Institution of <i>Inter Partes</i> Review filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed on November 12, 2020 (84 pages)
220	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed from November 13, 2020 - January 14, 2021 (29 pages)
221	Patent Owner The Noco Company's Response to Petition filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed on February 4, 2021 (507 pages)
222	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed from February 5, 2021 - April 6, 2021 (184 pages)
223	Patent Owner the NOCO Company's Supplemental Response (Including Exhibit 2024) for SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed April 22, 2021 (124 pages)
224	Petitioner's Reply to Patent Owner's Response (Including Exhibits 1024 - 1050) for SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed April 29, 2021 (1,601 pages)
225	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed from May 3, 2021 - July 12, 2021 (236 pages)
226	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed on July 22, 2021 (439 pages)
227	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2020-00944 ; Filed on August 5, 2021 (16 pages)
228	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board; Petitioner's Demonstrative Exhibit; Case No.: IPR 2020-00944 ; Filed on August 9, 2021 (83 pages)
229	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board; Case No.: IPR 2020-00944 ; Filed on August 9, 2021 (38 pages)
230	Documents filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board; Record of Oral Hearing; Case No.: IPR 2020-00944 ; Filed on September 13, 2021 (95 pages)

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	
				Examiner Name	
Sheet	13	of	15	Attorney Docket Number	10737-1-CON-9

231	Petition for Inter Partes Review of U.S. Patent No. 10,046,653, including Exhibits 1001-1014; Case No. IPR 2021-00777 , filed April 7, 2021 (617 pages)
232	Documents filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-00777 ; Filed between April 14 - April 30, 2021 (27 pages)
233	Decision Granting Institution of <i>Inter Partes</i> Review filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-00777 ; Filed on October 5, 2021 (14 pages)
234	Scheduling Order filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-00777 ; Filed on October 5, 2021 (11 pages)
235	Petition for Inter Partes Review of U.S. Patent No. 10,046,653 including Exhibits 1001-1011; Case No. IPR 2021-01232 , filed July 17, 2021 (737 pages)
236	Documents filed with SHENZHEN CHIC ELECTRICS CO., LTD., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01232 ; Filed between July 28, 2021 - August 5, 2021 (15 pages)
237	Petition for Inter Partes Review of U.S. Patent No. 10,328,806 including Exhibits 1001-1012; Case No. IPR 2021-01235 , filed July 7, 2021 (479 pages)
238	Documents filed with THE NOCO COMPANY, INC., v. PILOT, INC. ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, Case No.: IPR 2021-01235 ; Filed between July 19 - July 29, 2021 (14 pages)
239	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. WINPLUS NORTH AMERICA, INC. ; U.S. District Court for the District of Colorado; Civil Action No. 1:17-cv-01183; Includes publicly available documents filed from May 12, 2017 - June 8, 2017; Docket Nos. 1-11; (36 pages)
240	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. ANKER TECHNOLOGY CORPORATION ; U.S. District Court for the District of Colorado; Civil Action No. 1:17-cv-01185; Includes publicly available documents filed from May 12, 2017 - June 9, 2017; Docket Nos. 1-11; (37 pages)
241	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. WINPLUS NORTH AMERICA, INC. ; U.S. District Court for the Central District of California; Civil Action No. 5:17-cv-01712; Includes publicly available documents filed from August 23, 2017- October 8, 2018; Docket Nos. 1-59; (593 pages)
242	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. ANKER TECHNOLOGY CORPORATION ; U.S. District Court for the Northern District of CALIFORNIA; Civil Action No. 4:17-cv-04918; Includes publicly available documents filed from August 23, 2017 - March 27, 2018; Docket Nos. 1-25; (130 pages)

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	
				Examiner Name	
Sheet	14	of	15	Attorney Docket Number	10737-1-CON-9

243	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION ; U.S. District Court for the Northern District of Texas Dallas Division; Civil Action No. 3:19-cv-01676; Includes publicly available documents filed from July 12, 2019 - September 6, 2019; Docket Nos. 1-18; (560 pages)
244	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION ; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:19-cv-05982; Includes publicly available documents filed from September 6, 2019 - July 15, 2020; Docket Nos. 1-40; (1,233 pages)
245	Defendant Schumacher Electric Corporation's Corrected Initial Noninfringement, Invalidity and Unenforceability Contentions Pursuant to Local Patent Rule (LPR) 2.3 - Including Exhibits I.A - I.Q (REDACTED) for PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION ; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:19-cv-05982; Includes publicly available documents filed November 25, 2019 (729 pages)
246	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. GOOLOO TECHNOLOGY LLC and SHENZHEN GOOLOO E-COMMERCE CO. LTD. ; U.S. District Court for the Central District of California; Civil Action No. 2:19-cv-09485; Includes publicly available documents filed from November 4, 2019 - January 21, 2020; Docket Nos. 1-25; (581 pages)
247	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. AUKEY TECHNOLOGY CO. LTD. and SHENZHEN AUKEY E-BUSINESS CO., LTD. ; U.S. District Court for the Central District of California; Civil Action No. 2:19-cv-09486; Includes publicly available documents filed from November 4, 2019 - April 27, 2020; Docket Nos. 1-25; (585 pages)
248	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE DURACELL COMPANY ; U.S. District Court for the Northern District of Illinois Eastern Division; Civil Action No. 1:20-cv-04054; Includes publicly available documents filed from July 10, 2020 - August 20, 2020; Docket Nos. 1-11; (663 pages)
249	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452; Includes publicly available documents filed from July 22, 2020 - April 21, 2021; Docket Nos. 1-78; (2,799 pages)
250	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452 ; Includes publicly available documents filed from April 22, 2021 - June 11, 2021; Docket Nos. 79-114; (1,676 pages)
251	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452 ; Includes publicly available documents filed on August 6, 2021; Docket No. 115; (19 pages)
252	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. THE NOCO COMPANY, INC. ; U.S. District Court For the District of Arizona; Civil Action No. 2:20-cv-01452 ; Includes publicly available documents filed from August 20, 2021 - September 15, 2021; Docket Nos. 116-120; (13 pages)

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference is considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/495,196
				Filing Date	October 6, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	
				Examiner Name	
Sheet	15	of	15	Attorney Docket Number	10737-1-CON-9

	253	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. BATTERY-BIZ, INC. ; U.S. District Court Central District of California; Civil Action No. 2:20-cv-10207; Includes publicly available documents filed from November 6, 2020 - January 29, 2021; Docket Nos. 1-35; (733 pages)
	254	Documents filed with U.S. District Court Proceedings for PILOT, INC. v. Baccus Global LLC ; U.S. District Court for the Southern District of Florida West Palm Beach Division; Civil Action No. 9:21-cv-81009 ; Includes publicly available documents filed from June 7, 2021 - July 30, 2021; Docket Nos. 1-22; (1,543 pages)

Examiner Signature		Date Considered	
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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.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Pilot Inc.Application No./Patent No.: 17/495,196Filed/Issue Date: October 6, 2021Titled: AUTOMOBILE CHARGERPilot Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose one of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is ____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose one of options A or B below):

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

1. From: Calvin Shiening WANG To: WANG'S INTERNATIONAL, INC.The document was recorded in the United States Patent and Trademark Office at
Reel 054731, Frame 0402, or for which a copy thereof is attached.2. From: WANG'S INTERNATIONAL, INC. To: PILOT INC.The document was recorded in the United States Patent and Trademark Office at
Reel 054731, Frame 0417, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)3. From: Chung-Hsin WANG To: PILOT INC.

The document was recorded in the United States Patent and Trademark Office at
 Reel 054836, Frame 0553, or for which a copy thereof is attached.

4. 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.

5. 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.

6. 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(c)(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.

/Jason H. Vick/

 Signature

October 6, 2021

 Date

Jason H. Vick

 Printed or Typed Name

45,285

 Title or Registration Number

[Page 2 of 2]

Electronic Acknowledgement Receipt	
EFS ID:	43964958
Application Number:	17495196
International Application Number:	
Confirmation Number:	3283
Title of Invention:	AUTOMOBILE CHARGER
First Named Inventor/Applicant Name:	Calvin Shiening Wang
Customer Number:	22442
Filer:	Jason Vick/Joanne Vos
Filer Authorized By:	Jason Vick
Attorney Docket Number:	10737-1-CON-9
Receipt Date:	06-OCT-2021
Filing Date:	
Time Stamp:	16:02:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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37	Non Patent Literature	PART_0001_Schumacher_05.pdf	5677228	no	41
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Total Files Size (in bytes):			686665310		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Acknowledgement Receipt	
EFS ID:	43964551
Application Number:	17495196
International Application Number:	
Confirmation Number:	3283
Title of Invention:	AUTOMOBILE CHARGER
First Named Inventor/Applicant Name:	Calvin Shiening Wang
Customer Number:	22442
Filer:	Jason Vick/Joanne Vos
Filer Authorized By:	Jason Vick
Attorney Docket Number:	10737-1-CON-9
Receipt Date:	06-OCT-2021
Filing Date:	
Time Stamp:	15:45:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
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58	Non Patent Literature	PART_005_IPR_2020-00944_03.pdf	7114045	no	22
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Total Files Size (in bytes):			286246212		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Acknowledgement Receipt	
EFS ID:	43964255
Application Number:	17495196
International Application Number:	
Confirmation Number:	3283
Title of Invention:	AUTOMOBILE CHARGER
First Named Inventor/Applicant Name:	Calvin Shiening Wang
Customer Number:	22442
Filer:	Jason Vick/Joanne Vos
Filer Authorized By:	Jason Vick
Attorney Docket Number:	10737-1-CON-9
Receipt Date:	06-OCT-2021
Filing Date:	
Time Stamp:	15:32:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

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File Listing:					
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1	Foreign Reference	AU694452B2.pdf	845859	no	21
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			31750d9d8908d0eb1fe22128dbfa6f3cd3190dc9		
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26	Non Patent Literature	EDELSTEIN_Lithium-Ion_Batteries.pdf	9453450	no	18
			08948f9d2717f351c621bfecff6276de40fdf17c		
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27	Non Patent Literature	E-Power-21_Carku.pdf	402774	no	1
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28	Non Patent Literature	Fairchild_Semiconductor_LM78XX_LM78XXA_3-Terminal_1A_Positive_Voltage_Regulator.pdf	854771	no	28
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29	Non Patent Literature	FRANCISCO_This_power_bank_charges_phones_and_jumpstarts_cars.pdf	5421236	no	12
			a3a790efe9fe408df279c681a8311a2ac4092478		
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30	Non Patent Literature	Function_and_jumpstart_short_cut_Description.pdf	3168217	no	1
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31	Non Patent Literature	GANOZA_re_your_letters_on_behalf_of_pilot_2020-12-15.pdf	14502919	no	20
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32	Non Patent Literature	GOODWIN_PowerSafe_jumper_cables_take_danger.pdf	2443506	no	6
			ca6644d4ed9018af3406b4f8ba0023843352b2eb		
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33	Non Patent Literature	Holtek_HT75XX-1_100mA_Low_Power_LDO_HOLTEK.pdf	141192	no	14
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34	Non Patent Literature	Intelligent_Jumper_Cable.pdf	180139	no	1
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35	Non Patent Literature	JPR_Series_Jump_Starter_JPR-1800M_2600M_4500M_9000M_9024M.pdf	695581	no	2
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36	Non Patent Literature	Jump_starter_instructions.pdf	260741	no	1
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37	Non Patent Literature	Latest_News_Projecta_website.pdf	3782400	no	5
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38	Non Patent Literature	Lithium-Ion_Jump_Starter_Fuel_Pack_Backup_Power_Owners_Manual.pdf	11535464	no	7
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39	Non Patent Literature	Lithium_Starthilfe_Booster_Energiestation.pdf	1153851	no	3
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40	Non Patent Literature	MOYNIHAN_Small_but_Mighty_Charger_Juices.pdf	4089580	no	9
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41	Non Patent Literature	mPower_Jump_Mini_User_Manual.pdf	179163	no	1
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42	Non Patent Literature	mPower_JUMP_User_Manual.pdf	203058	no	1
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43	Non Patent Literature	MURPHY_Jump_Start_Your_Car.pdf	1751126	no	4
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44	Non Patent Literature	Peak_900_Peak_Amp_Jump-Starter.pdf	440237	no	8
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45	Non Patent Literature	POWERALL_Portable_Power_Bank_Battery_Jump_Starter_LED_Flashlight.pdf	8608913	no	9
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46	Non Patent Literature	Power_Safe_Jumper_Cables_SEMA_Global_Media_Award_Winner.pdf	769999	no	2
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47	Non Patent Literature	PRWeb_Groundbreaking_NOCO.pdf	162737	no	3
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Information:					
48	Non Patent Literature	Product_Review_Pocket_Charger_Jump_Starter_TexasBowhunter.pdf	2885346	no	6
			38b7b1ac7bb95607f880158fad313c7a0dca2cfe		
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49	Non Patent Literature	Profi_Power_12VDC_Mini_Jump_25_pages.pdf	18333000	no	25
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50	Non Patent Literature	Profi_Power_12VDC_Mini_Jump_9_pages.pdf	7838461	no	9
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51	Non Patent Literature	Profi_Power_Power_Punch_12 VDC_8_pages.pdf	3386646	no	8
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53	Non Patent Literature	Projecta_3000A_12_24V_High_Cranking_Sure_Start_Jumpstarter.pdf	289980	no	12
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54	Non Patent Literature	Projecta_New_Projecta_Jump_Starters.pdf	1022650	no	2
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55	Non Patent Literature	RAMSEY_Smartphone_battery_backup_that_will_jump.pdf	1412502	no	5
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56	Non Patent Literature	REDFUEL_Model_SL1.pdf	4936222	no	32
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57	Non Patent Literature	REDFUEL_Model_SL65_Owners_Manual.pdf	4349705	no	35
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58	Non Patent Literature	RESCUE_Portable_Power_Pack_Instructions.pdf	18267887	no	20
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59	Non Patent Literature	RESCUE_Portable_Power_Pack_Model_2100_Product_Spec.pdf	434649	no	2
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			6ecd62756092cfaa96835394b484f4dc07c64ee1		
Warnings:					
Information:					
Total Files Size (in bytes):			199457992		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e) (Page 1 of 1)**

First Named Inventor:	Calvin Shiening WANG	Nonprovisional Application Number (if known):	
Title of Invention:	AUTOMOBILE CHARGER		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

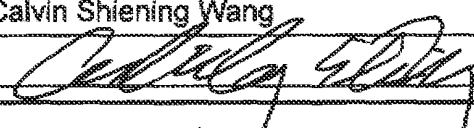
- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
---OR---
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature <u>/Jason H. Vick/</u>	Date <u>October 6, 2021</u>
Name (Print/Typed) <u>Jason H. Vick</u>	Practitioner Registration Number <u>45,285</u>
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.*	
☒ *Total of <u>1</u> forms are submitted.	

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

Title of Invention	AUTOMOBILE CHARGER
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>14/569,352</u> filed on <u>December 12, 2014</u> The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. 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.	
LEGAL NAME OF INVENTOR Inventor: <u>Calvin Shiening Wang</u> Date (Optional): <u>9/18/15</u> Signature: 	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute 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 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-9198 and select option 2.

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.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)**Title of
Invention****AUTOMOBILE CHARGER****Attorney Docket No. 8523WANG-1**

As the below named inventor, I hereby declare that:

This declaration
is directed to:☐

The attached application, or

☒United States application or PCT international application number 14/569,352filed on December 12, 2014

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

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

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

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.

LEGAL NAME OF INVENTORInventor: Chung-Hsin Wang

Date (Optional)

2018/5/29

Signature:

Chung-Hsin Wang

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: Calvin Shiening WANG) Group Art Unit:
Application No.:) Examiner:
Filed: Submitted Herewith) Confirmation No.:
Atty. File No.: 10737-1-CON-9)

For: AUTOMOBILE CHARGER

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

PRELIMINARY AMENDMENT

Dear Commissioner:

Prior to the initial review of the above-identified patent application by the Examiner, please enter the following Preliminary Amendment. Although Applicants do not believe that any fees are due based upon the filing of this Preliminary Amendment, please charge any such fees to Deposit Account 19-1970.

Please amend the above-identified patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are shown in the listing of claims which begin on page 3 of this paper.

Remarks begin on page 8 of this paper.

AMENDMENTS TO THE SPECIFICATION

Please amend the first paragraph of the application beneath the heading “RELATED APPLICATIONS”:

[0001] This application is a Continuation of U.S. Patent Application No. 17/131,113, filed December 22, 2020, which is a Continuation of U.S. Patent Application No. 16/404,321, filed May 6, 2019, now U.S. Patent No. 10,875,410, which is a Continuation of U.S. Patent Application No. 15/923,219, filed March 16, 2018, now U.S. Patent No. 10,328,806, which is a Continuation of U.S. Patent Application No. 15/355,409, filed November 18, 2016, now U.S. Patent No. 10,046,653, which is a Continuation of U.S. Patent Application No. 14/569,352, filed December 12, 2014, now U.S. Patent No. 9,525,297, which claims the benefit of priority of Chinese application no. 201420212173.5 filed April 28, 2014, the entire ~~content~~content of each are-which is incorporated herein by reference.

AMENDMENTS TO THE CLAIMS

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

Listing of Claims:

- 1-6. (Cancelled)
7. (New) A jumpstarter comprising:
 - a battery connected to a voltage regulator, the battery capable of supplying power, via the voltage regulator, to at least a microcontroller, the battery also capable of supplying power to an automobile battery when the battery has at least a predetermined voltage;
 - a load detector circuit to detect when the jumpstarter is correctly connected to the automobile battery;
 - the microcontroller generating, when the battery has at least a predetermined voltage, an output signal; and
 - switching circuitry, including at least one switch, to operatively connect the battery to the automobile battery when the microcontroller generates the output signal to supply a charging current to the automobile battery.
8. (New) The jumpstarter of claim 7, further comprising a battery voltage detector circuit to detect a battery voltage of the battery.
9. (New) The jumpstarter of claim 7, wherein the at least one switch is one or more MOSFETs.
10. (New) The jumpstarter of claim 7, wherein there are a plurality of switches.
11. (New) The jumpstarter of claim 9, wherein the one or more MOSFETs are n-channel MOSFETs.

12. (New) The jumpstarter of claim 7, wherein the at least one switch is a plurality of MOSFETs and wherein the plurality of MOSFETs are connected in parallel.

13. (New) The jumpstarter of claim 7, further comprising a load detector to detect a reverse polarity connection to the automobile battery.

14. (New) The jumpstarter of claim 7, wherein the microprocessor includes a standby mode where all outputs are closed.

15. (New) The jumpstarter of claim 9, wherein the plurality of MOSFETs are connected in a series-parallel topology.

16. (New) The jumpstarter of claim 14, wherein the jumpstarter is not in a standby mode when the battery has more than 10 volts.

17. (New) The jumpstarter of claim 7, further composing a start control module to stop supplying battery power when there is no load.

18. (New) The jumpstarter of claim 7, wherein the at least one switch switches a negative voltage and the at least one switch is connected to a negative battery terminal.

19. (New) The jumpstarter of claim 7, wherein the jumpstarter has a fast-charging function.

20. (New) The jumpstarter of claim 7, further comprising a voltage back-flow protection.

21. (New) The jumpstarter of claim 20, wherein the voltage back-flow protection is for an abnormal load.

22. (New) The jumpstarter of claim 7, wherein the microcontroller determines whether a battery state is suitable for heavy current power generation.

23. (New) A jumpstarter comprising:

a first battery connected to a voltage regulator, the battery capable of supplying power, via the voltage regulator, to at least a microcontroller, the first battery also capable of supplying power to an automobile battery when the first battery has at least a predetermined voltage;

a battery level detector to detect a level of a first battery;

a load detector to detect a type of connection of a load;

a microcontroller to generate an output signal only when the first battery has at least a predetermined voltage; and

switching circuitry, including at least one switch, to operatively connect the first battery to the automobile battery when the microcontroller generates the output signal to supply a charging current to the automobile battery.

24. (New) A jumpstarter comprising:

an output port having positive and negative polarity outputs;

an internal power supply connected to a voltage regulator, the internal power supply capable of supplying power, via the voltage regulator, to at least a microcontroller, the internal power supply also capable of supplying power to said output port when the internal power supply has at least a predetermined voltage;

a load detection sensor connected in circuit with said positive and negative polarity outputs, configured to detect presence of a vehicle battery connected between said positive and negative polarity outputs;

a reverse polarity sensor connected in circuit with said positive and negative polarity outputs, configured to detect polarity of a vehicle battery connected between said positive and negative polarity outputs and to provide an output signal indicating whether positive and negative terminals of said vehicle battery are properly connected with said positive and negative polarity outputs of said output port;

a power switch connected between said internal power supply and said output port; and

a microcontroller configured to provide an output signal to said power switch, such that said power switch is turned on to cause said internal power supply to be connected to said output port in response to signals from said sensors indicating the presence of a vehicle battery at said output port and proper polarity connection of positive and negative terminals of said vehicle battery with said positive and negative polarity outputs, and is not turned on when signals from said sensors indicate either the absence of a vehicle battery at said output port or improper polarity connection of positive and negative terminals of said vehicle battery with said positive and negative polarity outputs.

25. (New) The jumpstarter of claim 24, further comprising a voltage detector circuit to detect a voltage of the internal power supply.

26. (New) The jumpstarter of claim 24, wherein there are a plurality of power switches.

27. (New) The jumpstarter of claim 24, wherein the load detection sensor and the reverse polarity sensor are the same sensor.

28. (New) The jumpstarter of claim 27, wherein the load detection sensor and the reverse polarity sensor are a voltage detector circuit.

29. (New) The jumpstarter of claim 24, wherein the microprocessor includes a standby mode where all outputs are closed.

30. (New) The jumpstarter of claim 29, wherein the jumpstarter is not in a standby mode when the internal power supply has more than 10 volts.

31. (New) The jumpstarter of claim 24, further composing a start control module to prevent supplying power when there is no load.

32. (New) The jumpstarter of claim 24, wherein the power switch switches a negative voltage and the power switch is connected to a negative battery terminal.

33. (New) The jumpstarter of claim 24, wherein the jumpstarter has a fast-charging function.

34. (New) The jumpstarter of claim 24, further comprising a voltage back-flow protection.

35. (New) The jumpstarter of claim 28, wherein the power switch switches a negative voltage and the power switch is connected to a negative battery terminal.

36. (New) The jumpstarter of claim 24, wherein the microcontroller determines whether a battery state is suitable for heavy current power generation.

REMARKS/ARGUMENTS

By this amendment, claims 1-6 are canceled without prejudice or disclaimer and new claims have been added.

Applicant requests examination on the merits.

Applicant believes that the pending claims are in condition for allowance and such disposition is respectfully requested. In the event that a telephone conversation would further prosecution and/or expedite allowance, the Examiner is invited to contact the undersigned.

The Commissioner is hereby authorized to charge to Deposit Account No. 19-1970 any fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this paper and to credit any overpayment to that Account. If any extension of time is required in connection with the filing of this paper and has not been separately requested, such extension is hereby Petitioned.

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Jason H. Vick/
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(303) 863-9700
jvick@sheridanross.com

Date: October 6, 2021

AUTOMOBILE CHARGER

RELATED APPLICATIONS

[0001] This application claims the benefit of priority of Chinese application no. 201420212173.5 filed April 28, 2014, the entire content of which is incorporated herein by reference.

BACKGROUND

[0002] The present disclosure relates to an automobile charging device, in particular relates to a novel automobile charger with a safe power supply charging quickly.

[0003] Automobile charging is a big issue of traveling by automobile for those automobile fans and businessmen, the maturity of the technology thereof is one of the critical factors restricting the application of the automobile charger. However, current automobile chargers have common problems of not able to automatically detect whether a load is connected, whether an electrode is connected with an automobile storage battery reversely, whether an automobile engine or the storage battery has a reverse current, whether the battery state is suitable for heavy current power generation and so on. Accordingly, the present disclosure provides a novel automobile charger with the safe power supply charging quickly to solve the problems mentioned above, thus making the automobile charging safe, quick, mature and propagable.

SUMMARY

[0004] A purpose of the present disclosure aims to provide a novel automobile charger with the safe power supply charging quickly, in order to solve the problems presented in the above background.

[0005] To achieve the purpose described above, the present disclosure provides the following technical solutions: a novel automobile charger comprises a direct current power supply, wherein a positive pole of the direct current power supply is connected with one end of a DC to DC module, one end of a battery voltage detection

module and one end of a load module simultaneously, while a negative pole of the direct current voltage is connected with the other end of the DC to DC module, one end of a micro controller, one end of an automobile start control module and the other end of the battery voltage detection module simultaneously. A third end of the DC to DC module is connected with the other end of the microcontroller, and the other three ends of the microcontroller are connected with the third end of the battery voltage detection module, the other end of the automobile start control module and one end of the load detection module respectively, wherein the other end of the load detection module is connected with the third end of the automobile start control module and the other end of the load module simultaneously; the load module which comprises the automobile storage battery and the automobile engine is located on the end of the load module.

[0006] As a further solution of the present disclosure that: the DC to DC module provides a stable voltage for the microcontroller which collects relevant data to conduct the corresponding control. The battery voltage detection module conducts the measurement of the battery voltage, the automobile start control module conducts the power supply or the power outage for the load module through the microcontroller, and the load detection module which comprises the automobile storage battery or the automobile engine detects whether the load module is correctly connected.

[0007] As a further solution of the present disclosure that: the circuit employs an electronic switch to supply power to the load module, which can offer more protection for the product, or reduce the product size and the material cost.

[0008] As a further solution of the present disclosure that: the battery voltage detection module provides protection for the power supply battery to prevent damages caused by the discharging of the direct current power supply.

[0009] As a further solution of the present disclosure that: the load detection module prevents improper operations of the user.

[0010] As a further solution of the present disclosure that: in the standby mode, the microcontroller closes all outputs when the voltage of the direct current power supply is lower than that of the state being able to supply power and then recovers when it is higher than that of the state being able to supply power.

[0011] As a further solution of the present disclosure that: the automobile start control module is the electronic switch.

[0012] Compared to the prior art, the present disclosure has the beneficial effects that:

[0013] 1. The present disclosure employs the electronic switch to control the supply power for the load, this part can offer more protection for the product, and reduce the product size and the material cost.

[0014] 2. The battery detection of the present disclosure can provide low voltage protection to prevent damages caused by the over discharging of the battery.

[0015] 3. The load detection of the present disclosure can prevent improper operations by the user, such as reversed polarity, which causes damages to the automobile or the direct current power supply.

[0016] 4. The present disclosure employs the voltage backflow protection for abnormal load, wherein the automobile start line is closed to protect the battery when the abnormal voltage is detected.

[0017] 5. The present disclosure has a fast charging function, and can be installed fixedly or moved portably according to the use requirements of people.

[0018] 6. The automatic detection module of the present disclosure can automatically detects whether the load is connected, whether the electrode is connected with the automobile storage battery reversely, whether the automobile engine or the storage battery has reverse current, whether the battery state is suitable for heavy current power generation, thereby protecting the load and the circuit and thus has complete functions.

BRIEF DESCRIPTION OF DRAWINGS

[0019] Figure 1 is a block diagram for the principle of the emergency power supply of the safe intelligent automobile;

[0020] Figure 2 is a circuit diagram for the emergency power supply of the safe intelligent automobile.

[0021] In figures: 1-DC to DC module, 2-microcontroller, 3-battery voltage detection module, 4-automobile start control module, 5-load detection module, 6-load module, 7-direct current power supply.

DETAILED EMBODIMENTS

[0022] The technical solutions of the present disclosure will be described more clearly and fully in conjunction with drawings in the embodiments of the present disclosure, and obviously, the described embodiments are merely a part of the embodiments of the present disclosure, not all the embodiments. Based on the embodiments of the present disclosure, all the other embodiments obtained by the ordinary skilled in the art without creative labors belong to the scope claimed by the present disclosure.

[0023] Refer to figure 1, a novel automobile charger comprises a direct current power supply, wherein the positive pole of the direct current power supply is connected with one end or lead of the DC to DC module, one end of the battery voltage detection module and one end of the load module simultaneously, while the negative pole of the direct current voltage is connected with the other end of the DC to DC module, one end of the microcontroller, one end of the automobile start control module and the other end of the battery voltage detection module simultaneously. A third end of the DC to DC module is connected with the other end of the microcontroller, and the other three ends of the microcontroller are connected with the third end of the battery voltage detection module, the other end of the automobile start control module and one end of the load detection module respectively, wherein the other end of the load detection module is connected with the third end of the automobile start control module and the other end of the load module simultaneously; the load module which comprises the automobile storage battery and the automobile engine is located on the end of the load module.

[0024] Refer to figure 2, the DC to DC module comprises a diode D1, a resistor R1, capacitor C1, a HT7530 voltage stabilizing tube, capacitors C2 and C3, wherein the positive pole of the diode D1 is connected with the positive pole of the battery, the negative pole of the diode D1 is connected with one end of the capacitor C1 and an IN port of the HT7530 voltage stabilizing tube simultaneously through the resistor R1, and an OUT port of the HT7530 voltage stabilizing tube is connected with one end of the capacitor C2, one end of the capacitor C3 and a VDD port of the microcontroller U2, while the other end of the capacitor C1, the other end of the capacitor C2 and the other end of the capacitor C3 as well as a GND port of the HT7530 voltage stabilizing tube are grounded and connected with the negative pole of the battery simultaneously; a R1 port of the microcontroller U2 is connected with the negative pole of the battery through a light-

emitting diode L1 and a resistor R12 which are in series connection, a B1 port of the microcontroller U2 is connected with a EN port of the automobile start control module, a V0 port of the microcontroller U2 is connected with the negative pole of the battery through a capacitor C4 and a resistor R7 which are in parallel connection, the V0 port is also connected with the VDD port through a slide rheostat RT, a V1 port of the microcontroller U2 is also connected with the negative pole of the battery through a resistor R10, a capacitor C6 and a resistor R13 which are in parallel connection, the V1 port is connected with the positive pole of the battery through a resistor R2, and is also connected with the negative pole of the automobile storage battery and the automobile engine simultaneously through a resistor R9, wherein two ends of the automobile storage battery are in parallel connection with the capacitor C7, resistors R9, 10, a capacitor C6 and a resistor R13 to form the load detection module together, a V4 port of the microcontroller U2 is grounded through a capacitor C5, a VSS port of the microcontroller U2 and one end of the capacitor C4 are grounded simultaneously. The other end of the capacitor C4 is connected with the VDD port of the microcontroller U2, the resistors R2, R13 and capacitor C6 form the battery voltage detection module together, and a Drive port of the automobile start control module is connected with the automobile engine and one end of a resistor R14 simultaneously, wherein the other end of the resistor R14 is grounded.

[0025] The DC to DC module in the present disclosure provides the stable voltage for the microcontroller which collects relevant data to conduct the corresponding control. The battery voltage detection module conducts the measurement of the battery voltage, and the automobile start control module conducts the power supply or the power outage for the load module through the microcontroller, wherein the load detection module detects whether the load module is correctly connected.

[0026] The microcontroller in the present disclosure determines whether the automobile storage battery is connected with the automobile engine through the load detection module, wherein the automobile start control model is automatically activated and the battery starts to supply power to the load module when the load is correctly connected; the automobile start control model is automatically deactivated and the battery stops supplying power to the load module when assuming that the load is not connected or the positive and negative polarities are reversely connected. In the standby mode, the microcontroller closes all outputs when the battery voltage is lower than 9V, and recovers

the normal operation only when the battery voltage is larger than 10V; the automobile engine will generate the normal voltage to recharge the battery after the automobile starts, whereas the automobile start control module is deactivated immediately once the recharging voltage is larger than the voltage before that battery starts the power supply, to protect the battery from damages caused by charging with the normal voltage; the automobile start control module is the electronic switch, which can prevent the load from being reversely connected and recharging of the normal voltage, thus protecting the battery and prolonging lifespan.

[0027] The automobile engine will generate abnormal voltage to recharge the direct current power supply after the automobile starts, and the automobile start control module is deactivated immediately once the recharging voltage is larger than the voltage before the direct current power supply starts the power supply, to protect the direct current power supply from damages caused by charging with normal voltage charge.

[0028] It is obvious for the skilled people in the art that the present disclosure is not merely limited to the details of the above exemplary embodiments, and the present disclosure can be implemented in other specific forms without departing from the sprits or the basic features of the present disclosure. Thus, no matter to consider from which point of view, the embodiments should be considered as exemplary and non-limiting. The scope of the present disclosure is defined by the accompanying Claims rather than the above description, therefore it is intended that all the changes fallen within the meanings and scope of the equivalent elements of the Claims are contained in the present disclosure. Any drawing reference in the Claims should not be regarded as limiting the Claims involved.

[0029] Furthermore, it should be understood that although the specification is described according to the embodiments, but not every embodiment includes only an independent technical solution, this manner of description for the specification is only for clarity, therefore the skilled people in the art should take the Specification as a whole, and the technical solutions in various embodiments can be combined appropriately to form other implementations understandable for those skilled in the art.

CLAIMS

What is claimed is:

1. A novel automobile charger which comprises a direct current power supply, comprising:

a positive pole of the direct current power supply connected with a first lead of a DC to DC module, a first lead of a battery voltage detection module, and a first lead of a load module simultaneously,

a negative pole of the direct current voltage connected with a second lead of the DC to DC module, a first lead of a microcontroller, a first lead of an automobile start control module and a second lead of the battery voltage detection module simultaneously;

a third lead of the DC to DC module connected with a second lead of the microcontroller, and

three additional leads the microcontroller connected with a third lead of the battery voltage detection module, a second lead of the automobile start control module and the first lead of the load detection module respectively,

wherein a second lead of the load detection module is connected with the third end of the automobile start control module and second lead of the load module simultaneously;

the load module including an automobile storage battery and an automobile engine is located on one end of the automobile.

2. The novel automobile charger according to Claim 1, wherein

the DC to DC module includes a diode D1, a resistor R1, a capacitor C1, a HT7530 voltage stabilizing tube, and capacitors C2 and C3,

a positive pole of the diode D1 is connected with a positive pole of the battery,

a negative pole of the diode D1 is connected with a first lead of the capacitor C1 and

an IN port of the HT7530 voltage stabilizing tube through the resistor R1 simultaneously, and

an OUT port of the HT7530 voltage stabilizing tube is connected with a first lead of the capacitor C2, a first lead of the capacitor C3 and a VDD port of a microcontroller U2 simultaneously,

a second lead of the capacitor C1, a second lead of the capacitor C2 and a second lead of the capacitor C3 as well as a GND port of the HT7530 voltage stabilizing tube are grounded and connected with the negative pole of the battery simultaneously;

a R1 port of the microcontroller U2 is connected with a negative pole of the battery through a luminous diode L1 and a resistor R12 in series connection,

a B1 port of the microcontroller U2 is connected with a EN port of the automobile start control module,

a V0 port of the microcontroller U2 is connected with the negative pole of the battery through a capacitor C4 and a resistor R7 in parallel connection and also with the VDD port through a slide rheostat RT,

a V1 port of the microcontroller U2 is also connected with the negative pole of the battery through a resistor 10, a capacitor C6 and a resistor R13 in parallel connection,

the V1 port is connected with the positive pole of the battery through a resistor R2 and is also connected with the negative pole of the automobile storage battery and the automobile engine simultaneously through a resistor R9,

wherein two leads of the automobile storage battery are in parallel connection with the capacitor C7, the resistors R9, 10, the capacitor C6 and the resistor R13 together to form the load detection module,

a V4 port of the microcontroller U2 is grounded through a capacitor C5,

a VSS port of the microcontroller U2 and one end of the capacitor C4 are grounded; simultaneously,

the second lead of the capacitor C4 is connected with the VDD port of the microcontroller U2,

the resistor R2, capacitor C6 and resistor R13 form the battery voltage detection module together, and

a Drive port of the automobile start control module is connected with the automobile engine and one end of a resistor R14 simultaneously, wherein the other end of the resistor R14 is grounded.

3. The automobile charger according to Claim 1, wherein the DC to DC module is operably configured to provide a stable voltage for the microcontroller which collects relevant data to conduct corresponding control, and

the battery voltage detection module conducts the measurement of the battery voltage, the automobile start control module conducts power supply or power outage for the load module through the microcontroller, wherein the load detection module detects whether the load module is correctly connected.

4. The automobile charger according to Claim 1, further comprising the battery voltage detection module being operably configured to provide protection for the power supply battery.

5. The automobile charger according to Claim 1, further comprising programmatic instructions such that, when placed in a standby mode, the microcontroller closes all outputs when the voltage of the direct current power supply is lower than that of a state being able to supply power and then recovers when it is higher than the state being able to supply power.

6. The automobile charger according to Claim 1 wherein the automobile start control module is an electronic switch.

ABSTRACT

A novel automobile charger which comprise a direct current voltage, wherein a positive pole of the direct current voltage is connected with one end or lead of a DC to DC module, one end of a battery voltage detection module and one end of a load module simultaneously, while a negative pole of the battery is connected with the other end of the DC to DC module, one end of a microcontroller , one end of the automobile start control module and the other end of the battery voltage detection module simultaneously. A third end of the DC to DC module is connected with the other end of the microcontroller, the other three ends of which are connected with the third end of the battery voltage detection module, the other end of the automobile start control module and one end of the load detection module respectively. The other end of the load detection module is connected with the third end of the automobile start control module and the other end of the load module simultaneously.

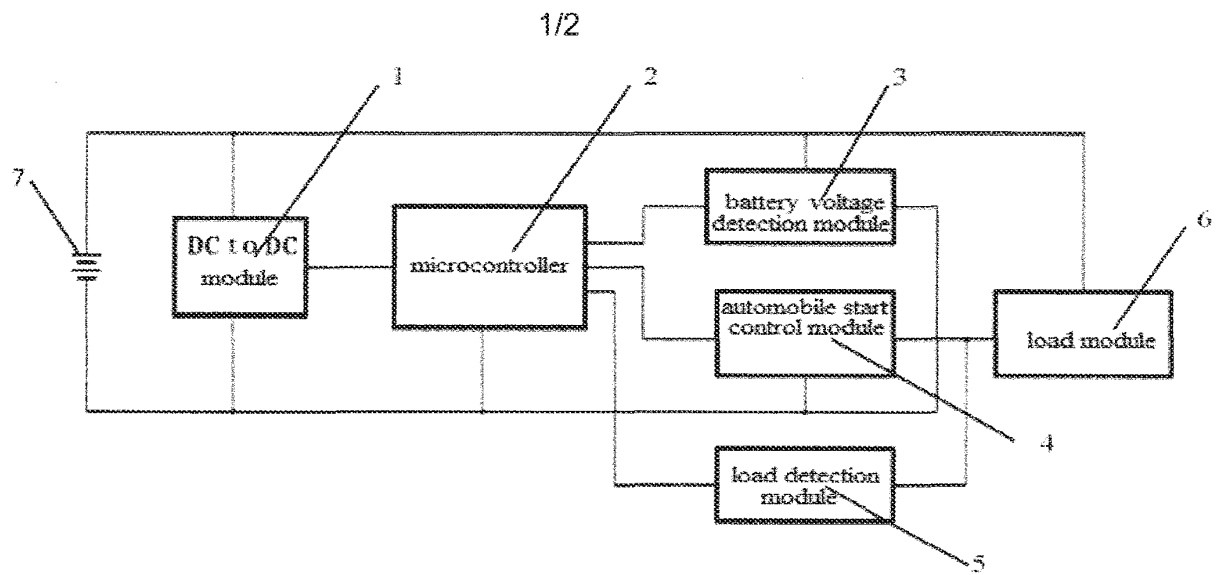


Figure 1

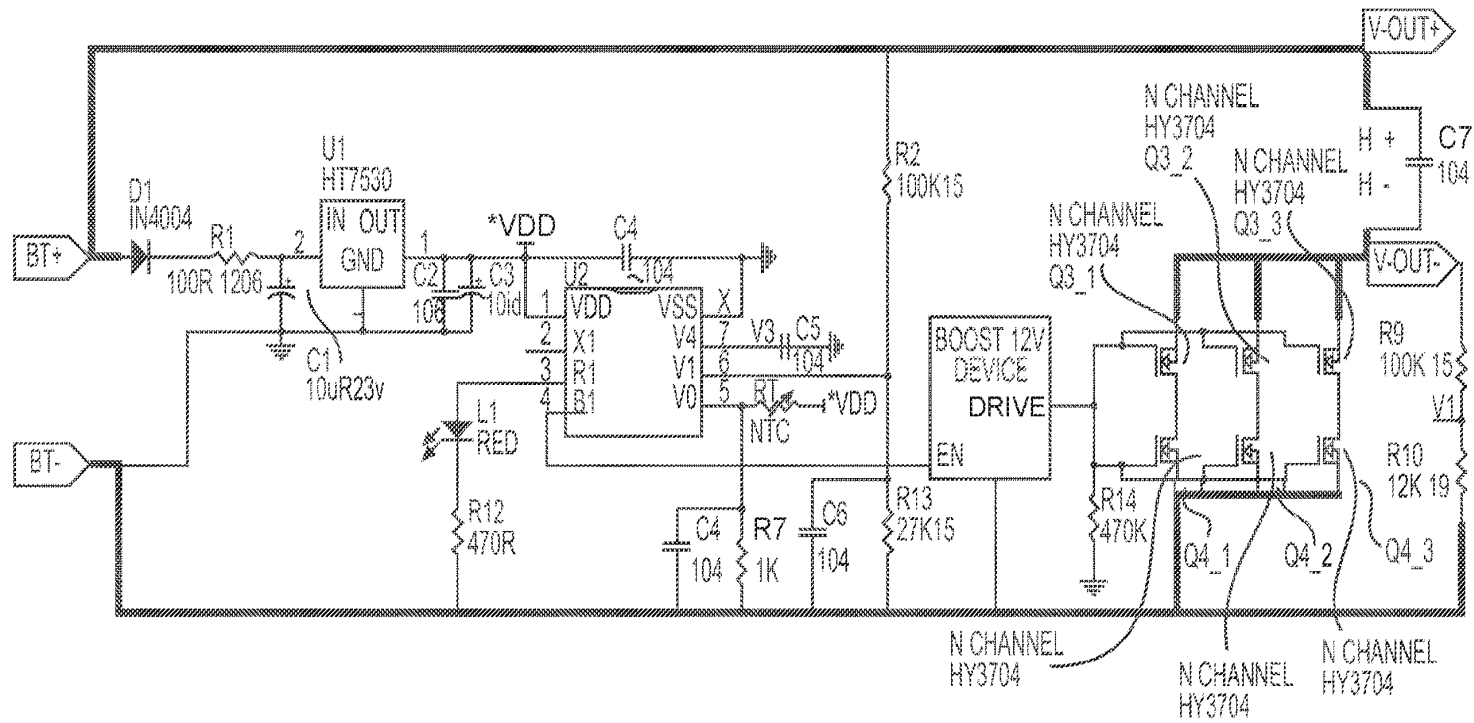


Figure 2

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		AUTOMOBILE CHARGER		
First Named Inventor/Applicant Name:		Calvin Shiening Wang		
Filer:		Jason Vick/Joanne Vos		
Attorney Docket Number:		10737-1-CON-9		
Filed as Large Entity				
Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4200	4200
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	10	100	1000
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				7160

Electronic Acknowledgement Receipt

EFS ID:	43961958
Application Number:	17495196
International Application Number:	
Confirmation Number:	3283
Title of Invention:	AUTOMOBILE CHARGER
First Named Inventor/Applicant Name:	Calvin Shiening Wang
Customer Number:	22442
Filer:	Jason Vick/Joanne Vos
Filer Authorized By:	Jason Vick
Attorney Docket Number:	10737-1-CON-9
Receipt Date:	06-OCT-2021
Filing Date:	
Time Stamp:	14:25:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$7160
RAM confirmation Number	E202106E26303747
Deposit Account	191970
Authorized User	Joanne Vos
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges) 37 CFR 1.19 (Document supply fees)	

37 CFR 1.17 (Patent application and reexamination processing fees)
37 CFR 1.16 (National application filing, search, and examination fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	WebADS.pdf	205790	no	8
			b75327700b588ab2869949a5adc5a758ad43cafb		

Warnings:**Information:**

2	TrackOne Request	Request_For_Prioritized_Exam_CON-9.pdf	127701	no	1
			dc956bf75f375ffae82c9d18df4ebf9eaacf0684		

Warnings:**Information:**

3	Oath or Declaration filed	Executed_Declaration.pdf	1961785	no	2
			12a93156ec696c50a894a3c95a9e3b87c02fed53		

Warnings:**Information:**

4		AMEND_PRELIM_01_CON-9_FINAL.pdf	96194	yes	8
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Multipart Description/PDF files in .zip description

	Document Description	Start	End
	Preliminary Amendment	1	1
	Specification	2	2
	Claims	3	7
	Applicant Arguments/Remarks Made in an Amendment	8	8

Warnings:**Information:**

5		Specification_FINAL.pdf	128222	yes	10
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	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	6	
	Claims		7	9	
	Abstract		10	10	
Warnings:					
Information:					
6	Drawings-only black and white line drawings	Figures_FINAL.pdf	122654	no	2
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Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	53070	no	2
			154f78b7768ee6f06410fb736c71cfa9a08b7bd9		
Warnings:					
Information:					
Total Files Size (in bytes):			2695416		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10737-1-CON-9
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor 1					
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	Calvin	Shiening	Wang		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
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City	City of Industry	State/Province	CA		
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Inventor 2					
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Prefix	Given Name	Middle Name	Family Name	Suffix	
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Postal Code	518100	Country ⁱ	CN		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add					

Correspondence Information:

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10737-1-CON-9
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence information of this application.**

Customer Number	22442		
Email Address	e-docketing@sheridanross.com	Add Email	Remove Email

Application Information:

Title of the Invention	AUTOMOBILE CHARGER		
Attorney Docket Number	10737-1-CON-9	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	2	Suggested Figure for Publication (if any)	

Filing By Reference:

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

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

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

Publication Information:

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

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

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

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	22442		

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10737-1-CON-9
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

Prefix	Given Name	Middle Name	Family Name	Suffix	Remove
Registration Number					
Prefix	Given Name	Middle Name	Family Name	Suffix	Remove
Registration Number					
Additional Representative Information blocks may be generated within this form by selecting the Add button.					

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

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

Prior Application Status		Pending		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
	Continuation of	17131113	2020-12-22		
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17131113	Continuation of	16404321	2019-05-06	10875410	2020-12-29
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16404321	Continuation of	15923219	2018-03-16	10328806	2019-06-25
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15923219	Continuation of	15355409	2016-11-18	10046653	2018-08-14
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15355409	Continuation of	14569352	2014-12-12	9525297	2016-12-20
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10737-1-CON-9
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ¹	Filing Date (YYYY-MM-DD)	Access Code ¹ (if applicable)
201420212173.5	CN	2014-04-28	

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

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10737-1-CON-9
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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

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

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10737-1-CON-9
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

Applicant Information:

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

Applicant 1

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

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

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

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name PILOT INC.

Mailing Address Information For Applicant:

Address 1 13000 Temple Boulevard

Address 2

City City of Industry State/Province CA

Country¹ US Postal Code 91746

Phone Number Fax Number

Email Address

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10737-1-CON-9
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

Assignee Information including Non-Applicant Assignee Information:

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

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	10737-1-CON-9
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

Signature:

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

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

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

Signature	/Jason H. Vick/			Date (YYYY-MM-DD)	
First Name	Jason H.	Last Name	Vick	Registration Number	45285
Additional Signature may be generated within this form by selecting the Add button.					