

AO 120 (Rev. 08/10)

<b>Mail Stop 8</b> <b>TO: Director of the U.S. Patent and Trademark Office</b> <b>P.O. Box 1450</b> <b>Alexandria, VA 22313-1450</b>	<b>REPORT ON THE</b> <b>FILING OR DETERMINATION OF AN</b> <b>ACTION REGARDING A PATENT OR</b> <b>TRADEMARK</b>
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court \_\_\_\_\_ of Arizona \_\_\_\_\_ on the following

☐ Trademarks or ☒ Patents. ( ☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00389-CDB	DATE FILED 3/14/2022	U.S. DISTRICT COURT of Arizona
PLAINTIFF Pilot, Inc.		DEFENDANT The NOCO Company, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 11,104,236	8/31/2022	Pilot, Inc.
2 11,124,077	9/21/2021	Pilot, Inc.
3 11,235,673	2/1/2022	Pilot, Inc.
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
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CLERK Debra D Lucas	(BY) DEPUTY CLERK Rebecca E. Wilson	DATE 3/31/22
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Copy 1—Upon initiation of action, mail this copy to Director    Copy 3—Upon termination of action, mail this copy to Director  
 Copy 2—Upon filing document adding patent(s), mail this copy to Director    Copy 4—Case file copy



# 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](http://www.uspto.gov)

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/236,260	09/21/2021	11124077	8523WANG-1-CON-5	2096

22442 7590 09/01/2021  
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 Data Management (ODM) at (571)-272-4200.

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](http://SelectUSA.gov).



# 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.
17/236,260	04/21/2021	Calvin Shiening WANG	8523WANG-1-CON-5	2096
22442	7590	08/23/2021	EXAMINER	
Sheridan Ross PC			FANTU, YALKEW	
1560 Broadway			ART UNIT	PAPER NUMBER
Suite 1200			2859	
Denver, CO 80202			NOTIFICATION DATE	DELIVERY MODE
			08/23/2021	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

<b>Corrected</b> <b>Notice of Allowability</b>	<b>Application No.</b> 17/236,260	<b>Applicant(s)</b> WANG et al.	
	<b>Examiner</b> YALKEW FANTU	<b>Art Unit</b> 2859	<b>AIA (FITF) Status</b> 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 08/11/2021.  
☐ 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 \_\_\_\_\_. 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](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto: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. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>08/05/21, 08/09/21 and 07/16/21</u> . 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____.	5. <input type="checkbox"/> Examiner's Amendment/Comment 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other _____.
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/YALKEW FANTU/ Primary Examiner, Art Unit 2859	08/17/2021
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2859
				Examiner Name	YALKEW FANTU
Sheet	1	of	1	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2013/0241498	09-19-2013	Koebler	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>
	2	CN 203211234 U	09-25-2013	HUIZHOU HUAYITONG TECHNOLOGY CO LTD		(Includes an English Translation of the Application)

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	3	Office Action for US Application No. 17/236,279, mailed July 30, 2021 (Attorney Ref. No. 8523WANG-1-CON-6)
	4	Documents filed with <b>SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed on July 22, 2021 (439 pages)
	5	Petition for Inter Partes Review of U.S. Patent No. 10,046,653 including Exhibits 1001-1011; <b>Case No. IPR 2021-01232</b> , filed July 17, 2021 (737 pages)
	6	Documents filed with <b>THE NOCO COMPANY, INC., v. PILOT, INC.</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2021-01235</b> ; Filed between July 19 - July 29, 2021 (14 pages)
	7	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. Baccus Global LLC</b> ; U.S. District Court for the District Court 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	/YALKEW FANTU/	Date Considered	08/18/2021
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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.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2859
				Examiner Name	YALKEW FANTU
Sheet	1	of	1	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	7002265	02-21-2006	Potega	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	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, Case No.: IPR 2020-00944; Filed on August 5, 2021 (16 pages)
	3	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)
	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 on August 6, 2021; Docket No. 115; (19 pages)

Examiner Signature	/YALKEW FANTU/	Date Considered	08/18/2021
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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.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	FANTU, YALKEW
				Examiner Name	2859
Sheet	1	of	2	Attorney Docket Number	8523WANG-1-CON-5

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	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. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	1	PR WEB Online Visibility from Vocus "Groundbreaking NOCO Genius® Boost™ Car Starter Available Commercially Beginning October 6, 2014" Published September 23, 2014
	2	Notice of Allowance for US Application No. 17/236,339, mailed July 7, 2021 (Attorney Ref. No. 8523WANG-1-CON-8)
	3	Patent Owner the NOCO Company's Supplemental Response (Including Exhibit 2024) for <b>SHENZHEN CAR KU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed April 22, 2021 (124 pages)
	4	Petitioner's Reply to Patent Owner's Response (Including Exhibits 1024 - 1050) for <b>SHENZHEN CAR KU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed April 29, 2021 (1,601 pages)
	5	Documents filed with <b>SHENZHEN CAR KU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed from May 3, 2021 - July 12, 2021 (236 pages)
	6	Documents filed with <b>THE NOCO COMPANY, INC., v. PILOT, INC.</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2021-00777</b> ; Filed between April 20 - April 30, 2021 (18 pages)
	7	Petition for Inter Partes Review of U.S. Patent No. 10,328,806 including Exhibits 1001-1012; <b>Case No. IPR 2021-01235</b> , filed July 7, 2021 (479 pages)

Examiner Signature	/YALKEW FANTU/	Date Considered	08/18/2021
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	FANTU, YALKEW
				Examiner Name	2859
Sheet	2	of	2	Attorney Docket Number	8523WANG-1-CON-5

	8	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. THE NOCO COMPANY, INC.</b> ; 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)
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Examiner Signature	/YALKEW FANTU/	Date Considered	08/18/2021
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2859
				Examiner Name	YALKEW FANTU
Sheet	1	of	1	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	7002265	02-21-2006	Potega	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	2	Documents filed with <b>SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed on August 5, 2021 (16 pages)
	3	Documents filed with <b>SHENZHEN CHIC ELECTRICS CO., LTD., v. PILOT, INC.</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2021-01232</b> ; Filed between July 28, 2021 - August 5, 2021 (15 pages)
	4	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. THE NOCO COMPANY, INC.</b> ; 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)

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: 2859
Calvin Shiening Wang	)	Confirmation No.: 2096
Serial No.: 17/236,260	)	Examiner: FANTU, YALKEW
Filed: April 21, 2021	)	
Atty. File No.: 8523WANG-1-CON-5	)	<u>REQUEST FOR CONSIDERATION OF</u>
Entitled: "AUTOMOBILE CHARGER"	)	<u>REFERENCES CITED IN</u>
	)	<u>INFORMATION DISCLOSURE</u>
	)	<u>STATEMENT OF JULY 16, 2021 AND</u>
	)	<u>AUGUST 5, 2021</u>
	)	

*Electronically Submitted*

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

Dear Commissioner:

On **July 16, 2021**, Applicant's representative filed an Information Disclosure Statement ("IDS") pursuant to 37 CFR 1.97(d) and 1.97(e) in the above-identified patent application. A copy of the IDS is attached hereto as Exhibit A. Copies of the non-patent literature were provided to the USPTO with the IDS and may be viewed in the image file wrapper.

The IDS of July 16, 2021, was properly submitted to the USPTO pursuant to 37 CFR §37 CFR 1.97(d) and 1.97(e). Applicants hereby respectfully request that the reference cited therein be considered by the Examiner.

Also, on **August 5, 2021**, Applicant's representative filed an Information Disclosure Statement ("IDS") pursuant to 37 CFR 1.97(d) and 1.97(e) in the above-identified patent application. A copy of the IDS is attached hereto as Exhibit B. Copies of the non-patent literature were provided to the USPTO with the IDS and may be viewed in the image file wrapper.

The IDS of August 5, 2021, was properly submitted to the USPTO pursuant to 37 CFR §37 CFR 1.97(d) and 1.97(e). Applicants hereby respectfully request that the reference cited therein be considered by the Examiner.

Although no fees are believed to be due in connection with this communication, please charge any fees deemed necessary to Deposit Account No. 19-1970. If additional information is required please contact the undersigned.

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: August 9, 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

# EXHIBIT A



## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	43274985
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	16-JUL-2021
<b>Filing Date:</b>	21-APR-2021
<b>Time Stamp:</b>	16:46:45
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$260
RAM confirmation Number	E20217FG47053717
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	Non Patent Literature	PRWeb_Groundbreaking_NOC O.pdf	162737	no	3
			cd09d97acd05679ad6aa4b44c74fb1e653ff73269		
Warnings:					
Information:					
2	Non Patent Literature	8523WANG-1- CON-8_NOA_07-07-2021.pdf	530379	no	10
			lddc08b0316af14c6edd1bec509c387a91d7429c		
Warnings:					
Information:					
3	Non Patent Literature	PART_012_IPR_2020-00944.pdf	553732	no	124
			03170ce90a64e2da1e21adedb9ebb09ab73d51ae		
Warnings:					
Information:					
4	Non Patent Literature	PART_013_IPR_2020-00944_00 1.pdf	16775091	no	300
			399301e4e4ba42dd44207dd63c90995e40f7b4e2		
Warnings:					
Information:					
5	Non Patent Literature	PART_013_IPR_2020-00944_00 2.pdf	18084069	no	300
			860a1b7b9cd842d523e5f0abcf15416d3c3fbd1		
Warnings:					
Information:					
6	Non Patent Literature	PART_013_IPR_2020-00944_00 3.pdf	18044792	no	1001
			90e8f6a53df07094e3bbb2363bbaef7735ff86		
Warnings:					
Information:					

7	Non Patent Literature	PART_014_IPR_2020-00944.pdf	1325230	no	236
			f39147995fb818cb2e6ad6cb66af1733d4c3ca8f		
Warnings:					
Information:					
8	Non Patent Literature	PART_002_IPR2021-00777.pdf	904932	no	18
			b534434b800439c19fb1efb8de269a4ec8230d38		
Warnings:					
Information:					
9	Non Patent Literature	PART_001_IPR2021-01235_PET_001.pdf	14634591	no	250
			608d5041fa189065c4a4e679376c44fac6f5de76		
Warnings:					
Information:					
10	Non Patent Literature	PART_001_IPR2021-01235_PET_002.pdf	14991938	no	229
			591f20c0caeb7bc25nd571081p4ee779fe92417a		
Warnings:					
Information:					
11	Non Patent Literature	PART_0002_NOCO_01.pdf	25331140	no	500
			63f10a085e1d88d03ec96d77e77f27e9c96ee371		
Warnings:					
Information:					
12	Non Patent Literature	PART_0002_NOCO_02.pdf	16003082	no	300
			3fb8716d7af6c857e8cb7baf146b9f25862cd5a7d		
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Information:					
13	Non Patent Literature	PART_0002_NOCO_03.pdf	22048484	no	300
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Warnings:					
Information:					

14	Non Patent Literature	PART_0002_NOCO_04.pdf	12305667	no	200
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Information:					
16		IDS_03_CON-5.pdf	253598	yes	5
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	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Letter specifying the conditions for filing under 37CFR1.97		1	3	
	Information Disclosure Statement (IDS) Form (SB08)		4	5	
Warnings:					
Information:					
17	Fee Worksheet (SB06)	fee-info.pdf	30462	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			184028189		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: ) Group Art Unit: 2859  
Calvin Shiening WANG ) Confirmation No.: 2096  
Serial No.: 17/236,260 ) Examiner: FANTU, YALKEW  
Filed: April 21, 2021 )  
Atty File No.: 8523WANG-1-CON-5 )  
Entitled: "AUTOMOBILE CHARGER" ) SUPPLEMENTAL  
 ) INFORMATION DISCLOSURE  
 ) STATEMENT  
 )  
 ) 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: 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

<input type="checkbox"/>	<p><b>37 CFR 1.97(b):</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):</p> <div style="margin-left: 20px;"> <input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or   <input type="checkbox"/> 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   <input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or   <input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.         </div> <p>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.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> 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:</p> <div style="margin-left: 40px;">           (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.         </div> <p>This Information Disclosure Statement is accompanied by:</p> <div style="margin-left: 20px;"> <input type="checkbox"/> 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.   <div style="text-align: center;">OR</div> <input type="checkbox"/> 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.         </div>
<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)         </div> <p style="text-align: center;">AND</p>

<input checked="" type="checkbox"/>	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: July 16, 2021

By: /Jason H. Vick/

Jason H. Vick  
Reg. No. 45,285  
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	FANTU, YALKEW
				Examiner Name	2859
Sheet	1	of	2	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2</sup> (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. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	1	PR WEB Online Visibility from Vocus "Groundbreaking NOCO Genius® Boost™ Car Starter Available Commercially Beginning October 6, 2014" Published September 23, 2014
	2	Notice of Allowance for US Application No. 17/236,339, mailed July 7, 2021 (Attorney Ref. No. 8523WANG-1-CON-8)
	3	Patent Owner the NOCO Company's Supplemental Response (Including Exhibit 2024) for <b>SHENZHEN CAR KU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed April 22, 2021 (124 pages)
	4	Petitioner's Reply to Patent Owner's Response (Including Exhibits 1024 - 1050) for <b>SHENZHEN CAR KU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed April 29, 2021 (1,601 pages)
	5	Documents filed with <b>SHENZHEN CAR KU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed from May 3, 2021 - July 12, 2021 (236 pages)
	6	Documents filed with <b>THE NOCO COMPANY, INC., v. PILOT, INC.</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2021-00777</b> ; Filed between April 20 - April 30, 2021 (18 pages)
	7	Petition for Inter Partes Review of U.S. Patent No. 10,328,806 including Exhibits 1001-1012; <b>Case No. IPR 2021-01235</b> , filed July 7, 2021 (479 pages)

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*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				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	FANTU, YALKEW
				Examiner Name	2859
Sheet	2	of	2	Attorney Docket Number	8523WANG-1-CON-5

	8	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. THE NOCO COMPANY, INC.</b> ; 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)
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Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*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.

# **EXHIBIT B**

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	43439234
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	05-AUG-2021
<b>Filing Date:</b>	21-APR-2021
<b>Time Stamp:</b>	16:34:29
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 260
RAM confirmation Number	E202185G35262918
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		IDS_04.pdf	250837	yes	4
			287bacd8caf125dbe4f621b645bb8f0450c8c42d		
	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Letter specifying the conditions for filing under 37CFR1.97	1	3		
	Information Disclosure Statement (IDS) Form (SB08)	4	4		
Warnings:					
Information:					
2	Foreign Reference	CN203211234U.pdf	9544229	no	27
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Information:					
3	Non Patent Literature	8523WANG-1- CON-6_OA_07-30-2021.pdf	274547	no	7
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Information:					
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NOCO Ex					

6	Non Patent Literature	PART_001_IPR_2021-01232_PET_001.pdf	20740107	no	400
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Information:					
7	Non Patent Literature	PART_001_IPR_2021-01232_PET_002.pdf	15057567	no	337
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Information:					
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Warnings:					
Information:					
Total Files Size (in bytes):			245474650		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>          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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>          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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>          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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2859
Calvin Shiening WANG	)	Confirmation No.: 2096
Serial No.: 17/236,260	)	Examiner: FANTU, YALKEW
Filed: April 21, 2021	)	
Atty File No.: 8523WANG-1-CON-5	)	<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:

• 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

• PILOT, INC. v. BACCUS GLOBAL LLC; U.S. District Court for the District Court of Florida West Palm Beach Division; Civil Action No. 21-cv-81009

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

<input type="checkbox"/>	<p><b>37 CFR 1.97(b):</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):</p> <p><input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or</p> <p><input type="checkbox"/> 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</p> <p><input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or</p> <p><input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.</p> <p>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.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> 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:</p> <p>(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.</p> <p>This Information Disclosure Statement is accompanied by:</p> <p><input type="checkbox"/> 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.</p> <p style="text-align: center;">OR</p> <p><input type="checkbox"/> 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.</p>

<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <p><input checked="" type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)</p> <p style="text-align: center;">AND</p> <p><input checked="" type="checkbox"/> 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.</p>
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<p><b>Certification (37 C.F.R. 1.97(e))</b> (Applicable only if checked)</p>
<p><input checked="" type="checkbox"/> The undersigned certifies that:</p> <p style="margin-left: 40px;"><input type="checkbox"/> 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).</p> <p style="margin-left: 40px;"><input type="checkbox"/> A copy of the communication from the foreign patent office is enclosed.</p> <p style="text-align: center;">OR</p> <p><input checked="" type="checkbox"/> 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).</p>

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: August 5, 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](mailto:jvick@sheridanross.com)

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2859
				Examiner Name	YALKEW FANTU
Sheet	1	of	1	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2013/0241498	09-19-2013	Koebler	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>
	2	CN 203211234 U	09-25-2013	HUIZHOU HUAYITONG TECHNOLOGY CO LTD		(Includes an English Translation of the Application)

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	3	Office Action for US Application No. 17/236,279, mailed July 30, 2021 (Attorney Ref. No. 8523WANG-1-CON-6)
	4	Documents filed with <b>SHENZHEN CAR KU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed on July 22, 2021 (439 pages)
	5	Petition for Inter Partes Review of U.S. Patent No. 10,046,653 including Exhibits 1001-1011; <b>Case No. IPR 2021-01232</b> , filed July 17, 2021 (737 pages)
	6	Documents filed with <b>THE NOCO COMPANY, INC., v. PILOT, INC.</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2021-01235</b> ; Filed between July 19 - July 29, 2021 (14 pages)
	7	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. Baccus Global LLC</b> ; U.S. District Court for the District Court 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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\*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

<b>Application Number:</b>	17236260			
<b>Filing Date:</b>	21-Apr-2021			
<b>Title of Invention:</b>	AUTOMOBILE CHARGER			
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG			
<b>Filer:</b>	Jason Vick/Joanne Vos			
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5			
Filed as Large Entity				
<b>Filing Fees for    Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
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

<b>EFS ID:</b>	43462569
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	09-AUG-2021
<b>Filing Date:</b>	21-APR-2021
<b>Time Stamp:</b>	16:56:35
<b>Application Type:</b>	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	E202189G56591058
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_8523WANG-1-CON-5.pdf	1614887	no	1
			0eeb34a06329ab296e68e43d342bbb9d4cdef6		
Warnings:					
Information:					
2	Post Allowance Communication - Incoming	Comments_on_Reason_for_Allowance.pdf	93404	no	2
			e980d87547b5655693f316d2a019ebfa17a344b		
Warnings:					
Information:					
3		IDS_05.pdf	231286	yes	4
			d319c73b4c05ea18c0faa1713988e1ae23b90383		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Letter specifying the conditions for filing under 37CFR1.97		1	3	
	Information Disclosure Statement (IDS) Form (SB08)		4	4	
Warnings:					
Information:					
4	Non Patent Literature	PART_016_IPR_2020-00944.pdf	269021	no	16
			2b8279edf29eae8609e0dfce5832e0e9c1a34bc4		
Warnings:					
Information:					
5	Non Patent Literature	PART_002_IPR_2021-01232.pdf	765732	no	15
			f9247c431a463ed8c4c183777b9d7fbce858aedd		
Warnings:					
Information:					
NOCO Ex					

6	Non Patent Literature	PART_0003_NOCO.pdf	344339	no	19
			a3813401da95ea4197ca7f3c1dc9ad5f7e7f1de6		
<b>Warnings:</b>					
<b>Information:</b>					
7	Miscellaneous Incoming Letter	Request_for_Consideration_of_IDS.pdf	412034	no	22
			f5f520239842b09b2d3165fe9f4108769c185193		
<b>Warnings:</b>					
<b>Information:</b>					
8	Fee Worksheet (SB06)	fee-info.pdf	40351	no	2
			97911f0e7ea135c98502b357648db58f1faceda7		
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			3771054		
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>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.</b></p>					



# **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 07/12/2021  
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)
August 9, 2021	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/236,260	04/21/2021	Calvin Shiening WANG	8523WANG-1-CON-5	2096

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	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/12/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
FANTU, YALKEW	2859	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/SB/122) attached.

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

2. For printing on the patent front page, list

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

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

1 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 August 9, 2021

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: 2859
Application No.: 17/236,260	)	Examiner: FANTU, YALKEW
Filed: April 21, 2021	)	Confirmation No.: 2096
Atty. File No.: 8523WANG-1-CON-5	)	
	)	

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 July 12, 2021.

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

The prior art, and any art of record does not disclose or suggest the following Claim 7 limitations: “ ... an automobile battery when the battery has at least a predetermined voltage; a load detector circuit, connected to the microcontroller, to detect when the jump-starter is correctly connected to the automobile battery; the microcontroller generating, when the jump-starter is correctly connected to the automobile battery, 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 ...” in combination with the remaining claim elements as set forth in Claim 7 and its depending claims 8-30.

*Therefore* claims 7-30 are allowed.

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 claim 7.

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: August 9, 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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: ) Group Art Unit: 2859  
Calvin Shiening WANG ) Confirmation No.: 2096  
Serial No.: 17/236,260 ) Examiner: FANTU, YALKEW  
Filed: April 21, 2021 )  
Atty File No.: 8523WANG-1-CON-5 )  
Entitled: "AUTOMOBILE CHARGER" ) SUPPLEMENTAL  
 ) INFORMATION DISCLOSURE  
 ) STATEMENT  
 )  
 ) 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.

### FEES

<input type="checkbox"/>	<p><b>37 CFR 1.97(b):</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):</p> <div style="margin-left: 20px;"> <input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or   <input type="checkbox"/> 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   <input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or   <input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.         </div> <p>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.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> 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:</p> <div style="margin-left: 40px;">           (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.         </div> <p>This Information Disclosure Statement is accompanied by:</p> <div style="margin-left: 20px;"> <input type="checkbox"/> 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.   <div style="text-align: center;">OR</div> <input type="checkbox"/> 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.         </div>
<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)   <div style="text-align: center;">AND</div> <input checked="" type="checkbox"/> 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.         </div>

**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: August 9, 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](mailto:jvick@sheridanross.com)



# UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/236,260	04/21/2021	Calvin Shiening WANG	8523WANG-1-CON-5

**CONFIRMATION NO. 2096**

## PUBLICATION NOTICE



\*OC000000127490982\*

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

**Title:**AUTOMOBILE CHARGER

**Publication No.**US-2021-0237589-A1

**Publication Date:**08/05/2021

## 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](http://www.uspto.gov). The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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

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

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

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

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	2859
				Examiner Name	YALKEW FANTU
Sheet	1	of	1	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2013/0241498	09-19-2013	Koebler	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>
	2	CN 203211234 U	09-25-2013	HUIZHOU HUAYITONG TECHNOLOGY CO LTD		(Includes an English Translation of the Application)

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	3	Office Action for US Application No. 17/236,279, mailed July 30, 2021 (Attorney Ref. No. 8523WANG-1-CON-6)
	4	Documents filed with <b>SHENZHEN CARKE TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed on July 22, 2021 (439 pages)
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	7	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. Baccus Global LLC</b> ; U.S. District Court for the District Court 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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\*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

<b>Application Number:</b>	17236260			
<b>Filing Date:</b>	21-Apr-2021			
<b>Title of Invention:</b>	AUTOMOBILE CHARGER			
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG			
<b>Filer:</b>	Jason Vick/Joanne Vos			
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5			
Filed as Large Entity				
<b>Filing Fees for    Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				

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

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	43439234
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	05-AUG-2021
<b>Filing Date:</b>	21-APR-2021
<b>Time Stamp:</b>	16:34:29
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$260
RAM confirmation Number	E202185G35262918
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		IDS_04.pdf	250837	yes	4
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	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Letter specifying the conditions for filing under 37CFR1.97	1	3		
	Information Disclosure Statement (IDS) Form (SB08)	4	4		
Warnings:					
Information:					
2	Foreign Reference	CN203211234U.pdf	9544229	no	27
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Warnings:					
Information:					
3	Non Patent Literature	8523WANG-1-CON-6_OA_07-30-2021.pdf	274547	no	7
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Warnings:					
Information:					
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NOCO Ex. 1					

6	Non Patent Literature	PART_001_IPR_2021-01232_PET_001.pdf	20740107	no	400
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Information:					
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Information:					
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Information:					
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Warnings:					
Information:					

13	Non Patent Literature	PART_0001_BaccusGlobal_05.pdf	21271612 13f0b0b2e3d40488c4866c15240825a07562f652	no	150
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<b>Information:</b>					
14	Non Patent Literature	PART_0001_BaccusGlobal_06.pdf	25463491 5bb325a1fc49bb5226985ecc4d8851cf6ee27a3d	no	250
<b>Warnings:</b>					
<b>Information:</b>					
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<b>Warnings:</b>					
<b>Information:</b>					
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<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			245474650		
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>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.</b></p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2859
Calvin Shiening WANG	)	Confirmation No.: 2096
Serial No.: 17/236,260	)	Examiner: FANTU, YALKEW
Filed: April 21, 2021	)	
Atty File No.: 8523WANG-1-CON-5	)	<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:

• 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

• PILOT, INC. v. BACCUS GLOBAL LLC; U.S. District Court for the District Court of Florida West Palm Beach Division; Civil Action No. 21-cv-81009

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

<input type="checkbox"/>	<p><b>37 CFR 1.97(b):</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):</p> <p><input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or</p> <p><input type="checkbox"/> 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</p> <p><input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or</p> <p><input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.</p> <p>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.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> 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:</p> <p>(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.</p> <p>This Information Disclosure Statement is accompanied by:</p> <p><input type="checkbox"/> 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.</p> <p style="text-align: center;">OR</p> <p><input type="checkbox"/> 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.</p>



<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <p><input checked="" type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)</p> <p style="text-align: center;">AND</p> <p><input checked="" type="checkbox"/> 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.</p>
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<p><b>Certification (37 C.F.R. 1.97(e))</b> (Applicable only if checked)</p>
<p><input checked="" type="checkbox"/> The undersigned certifies that:</p> <p style="margin-left: 40px;"><input type="checkbox"/> 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).</p> <p style="margin-left: 40px;"><input type="checkbox"/> A copy of the communication from the foreign patent office is enclosed.</p> <p style="text-align: center;">OR</p> <p><input checked="" type="checkbox"/> 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).</p>

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: August 5, 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](mailto:jvick@sheridanross.com)

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	FANTU, YALKEW
				Examiner Name	2859
Sheet	1	of	2	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2</sup> (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. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	1	PR WEB Online Visibility from Vocus "Groundbreaking NOCO Genius® Boost™ Car Starter Available Commercially Beginning October 6, 2014" Published September 23, 2014
	2	Notice of Allowance for US Application No. 17/236,339, mailed July 7, 2021 (Attorney Ref. No. 8523WANG-1-CON-8)
	3	Patent Owner the NOCO Company's Supplemental Response (Including Exhibit 2024) for <b>SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed April 22, 2021 (124 pages)
	4	Petitioner's Reply to Patent Owner's Response (Including Exhibits 1024 - 1050) for <b>SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed April 29, 2021 (1,601 pages)
	5	Documents filed with <b>SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed from May 3, 2021 - July 12, 2021 (236 pages)
	6	Documents filed with <b>THE NOCO COMPANY, INC., v. PILOT, INC.</b> ; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2021-00777</b> ; Filed between April 20 - April 30, 2021 (18 pages)
	7	Petition for Inter Partes Review of U.S. Patent No. 10,328,806 including Exhibits 1001-1012; <b>Case No. IPR 2021-01235</b> , filed July 7, 2021 (479 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				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	FANTU, YALKEW
				Examiner Name	2859
Sheet	2	of	2	Attorney Docket Number	8523WANG-1-CON-5

	8	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. THE NOCO COMPANY, INC.</b> ; 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)
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Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*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

<b>Application Number:</b>	17236260			
<b>Filing Date:</b>	21-Apr-2021			
<b>Title of Invention:</b>	AUTOMOBILE CHARGER			
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG			
<b>Filer:</b>	Jason Vick/Joanne Vos			
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5			
Filed as Large Entity				
<b>Filing Fees for    Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Miscellaneous:</b>				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
<b>Total in USD (\$)</b>				<b>260</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	43274985
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	16-JUL-2021
<b>Filing Date:</b>	21-APR-2021
<b>Time Stamp:</b>	16:46:45
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$260
RAM confirmation Number	E20217FG47053717
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	Non Patent Literature	PRWeb_Groundbreaking_NOC O.pdf	162737	no	3
			cd09d97acdb5679ad6aa4b44c74fb1e653f73269		
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Information:					
2	Non Patent Literature	8523WANG-1- CON-8_NOA_07-07-2021.pdf	530379	no	10
			fddc08b0316af14c6edd1bec509c387a91d7429c		
Warnings:					
Information:					
3	Non Patent Literature	PART_012_IPR_2020-00944.pdf	553732	no	124
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Warnings:					
Information:					
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Warnings:					
Information:					
5	Non Patent Literature	PART_013_IPR_2020-00944_00 2.pdf	18084069	no	300
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Warnings:					
Information:					

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Warnings:					
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Warnings:					
Information:					
12	Non Patent Literature	PART_0002_NOCO_02.pdf	16003082	no	300
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Warnings:					
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Warnings:					
Information:					



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Warnings:					
Information:					
16		IDS_03_CON-5.pdf	253598	yes	5
			43c5d5883491e2e27fb6ab9206fa5136f4394280		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Letter specifying the conditions for filing under 37CFR1.97		1	3	
	Information Disclosure Statement (IDS) Form (SB08)		4	5	
Warnings:					
Information:					
17	Fee Worksheet (SB06)	fee-info.pdf	30462	no	2
			53501c2561ebcc0aa49f821de61036e23f7ce5bf		
Warnings:					
Information:					
Total Files Size (in bytes):			184028189		

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

**New Applications Under 35 U.S.C. 111**

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

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

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

**New International Application Filed with the USPTO as a Receiving Office**

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: ) Group Art Unit: 2859  
Calvin Shiening WANG ) Confirmation No.: 2096  
Serial No.: 17/236,260 ) Examiner: FANTU, YALKEW  
Filed: April 21, 2021 )  
Atty File No.: 8523WANG-1-CON-5 )  
Entitled: "AUTOMOBILE CHARGER" ) SUPPLEMENTAL  
 ) INFORMATION DISCLOSURE  
 ) STATEMENT  
 )  
 ) 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: 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

<input type="checkbox"/>	<p><b>37 CFR 1.97(b):</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):</p> <div style="margin-left: 20px;"> <input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or   <input type="checkbox"/> 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   <input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or   <input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.         </div> <p>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.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> 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:</p> <div style="margin-left: 40px;">           (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.         </div> <p>This Information Disclosure Statement is accompanied by:</p> <div style="margin-left: 20px;"> <input type="checkbox"/> 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.   <div style="text-align: center;">OR</div> <input type="checkbox"/> 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.         </div>
<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)         </div> <p style="text-align: center;">AND</p>

<input checked="" type="checkbox"/>	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.
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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

☒ 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: July 16, 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](mailto:jvick@sheridanross.com)



# UNITED STATES PATENT AND TRADEMARK OFFICE

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

## NOTICE OF ALLOWANCE AND FEE(S) DUE

22442 7590 07/12/2021  
Sheridan Ross PC  
1560 Broadway  
Suite 1200  
Denver, CO 80202

EXAMINER	
FANTU, YALKEW	
ART UNIT	PAPER NUMBER
2859	

DATE MAILED: 07/12/2021

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/236,260	04/21/2021	Calvin Shiening WANG	8523WANG-1-CON-5	2096

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	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/12/2021

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

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

### HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

**IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at [www.uspto.gov/PatentMaintenanceFees](http://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 07/12/2021  
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.
17/236,260	04/21/2021	Calvin Shiening WANG	8523WANG-1-CON-5	2096

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	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/12/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
FANTU, YALKEW	2859	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/SB/122) attached.

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

2. For printing on the patent front page, list

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

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  
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Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/236,260	04/21/2021	Calvin Shiening WANG	8523WANG-1-CON-5	2096
22442	7590	07/12/2021	EXAMINER	
Sheridan Ross PC			FANTU, YALKEW	
1560 Broadway			ART UNIT	
Suite 1200			PAPER NUMBER	
Denver, CO 80202			2859	

DATE MAILED: 07/12/2021

## 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.

<b>Notice of Allowability</b>	<b>Application No.</b> 17/236,260	<b>Applicant(s)</b> WANG et al.	
	<b>Examiner</b> YALKEW FANTU	<b>Art Unit</b> 2859	<b>AIA (FITF) Status</b> 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 06/28/2021.  
☐ 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 7-30. 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](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto: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. <input type="checkbox"/> Notice of References Cited (PTO-892)	5. <input type="checkbox"/> Examiner's Amendment/Comment
2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>06/28/2021</u> .	6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance
3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. <input type="checkbox"/> Other _____.
4. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/YALKEW FANTU/ Primary Examiner, Art Unit 2859	06/29/2021
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## **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. As per applicant amendments and arguments noted in the remarks of 06/28/2021, a terminal disclaimer has been submitted to overcome the non-statutory double patenting rejections, the only rejects left, of the last office action; hence the rejections have been withdrawn. Claims 1-6 were previously cancelled. Claims 7-30 are allowed.

### **Information Disclosure Statement**

The Information Disclosure Statement dated 06/28/2021 is acknowledged and the cited references have been considered in this examination.

### **Terminal Disclaimer**

The terminal disclaimer filed on 06/28/2021 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US 10,875,410 has been reviewed and is accepted. The terminal disclaimer has been recorded.

### **Reasons For Allowance**

The following is the examiner's statement of reasons for allowance. The prior art, and any art of record does not disclose or suggest the following Claim 7 limitations: " ... an automobile battery when the battery has at least a predetermined voltage; a load detector circuit, connected to the microcontroller, to detect when the jump-starter is correctly connected to the automobile battery; the microcontroller generating, when the jump-starter is correctly connected to the automobile battery, 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 ...” in combination with the remaining claim elements as set forth in Claim 7 and its depending claims 8-30.

*Therefore* claims 7-30 are allowed.

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.”

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YALKEW FANTU whose telephone number is (571)272-8928. The examiner can normally be reached on Monday-Friday 7:00AM-4:00PM.


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, DREW A DUNN can be reached on 571-272-2312. 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 <https://ppair-my.uspto.gov/pair/PrivatePair>. 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.


/YALKEW FANTU/  
Primary Examiner, Art Unit 2859

<b>Issue Classification</b> 	<b>Application/Control No.</b> 17/236,260	<b>Applicant(s)/Patent Under Reexamination</b> WANG et al.
	<b>Examiner</b> YALKEW FANTU	<b>Art Unit</b> 2859

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		<b>Total Claims Allowed:</b>	
(Assistant Examiner)	(Date)	24	
/YALKEW FANTU/ Primary Examiner, Art Unit 2859	30 June 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2


<b>Issue Classification</b> 	<b>Application/Control No.</b> 17/236,260	<b>Applicant(s)/Patent Under Reexamination</b> WANG et al.
	<b>Examiner</b> YALKEW FANTU	<b>Art Unit</b> 2859

<b>INTERNATIONAL CLASSIFICATION</b>			
<b>CLAIMED</b>			
H02J	/	7	/ 00
<b>NON-CLAIMED</b>			
/	/		

<b>US ORIGINAL CLASSIFICATION</b>	
<b>CLASS</b>	<b>SUBCLASS</b>
320	109

<b>CROSS REFERENCES(S)</b>						
<b>CLASS</b>	<b>SUBCLASS (ONE SUBCLASS PER BLOCK)</b>					


NONE		<b>Total Claims Allowed:</b>	
(Assistant Examiner)	(Date)	24	
/YALKEW FANTU/ Primary Examiner, Art Unit 2859	30 June 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2

<b>Issue Classification</b> 	<b>Application/Control No.</b> 17/236,260	<b>Applicant(s)/Patent Under Reexamination</b> WANG et al.
	<b>Examiner</b> YALKEW FANTU	<b>Art Unit</b> 2859

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input checked="" type="checkbox"/> T.D. <input type="checkbox"/> R.1.47															
<b>CLAIMS</b>															
<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>	<b>Final</b>	<b>Original</b>
	1	5	10	16	19	22	28								
	2	4	11	12	20	23	29								
	3	6	12	13	21	24	30								
	4	7	13	14	22										
	5	9	14	17	23										
	6	10	15	18	24										
1	7	11	16	19	25										
2	8	15	17	20	26										
3	9	8	18	21	27										

NONE  (Assistant Examiner) _____ (Date) _____		<b>Total Claims Allowed:</b> 24	
/YALKEW FANTU/ Primary Examiner, Art Unit 2859 (Primary Examiner) _____ (Date) 30 June 2021		O.G. Print Claim(s) 1	O.G. Print Figure 2



<b>Search Notes</b> 	<b>Application/Control No.</b> 17/236,260	<b>Applicant(s)/Patent Under Reexamination</b> WANG et al.
	<b>Examiner</b> YALKEW FANTU	<b>Art Unit</b> 2859

<b>CPC - Searched*</b>		
<b>Symbol</b>	<b>Date</b>	<b>Examiner</b>
B60L53/00	06/15/2021	YF

<b>CPC Combination Sets - Searched*</b>		
<b>Symbol</b>	<b>Date</b>	<b>Examiner</b>
B60L53/53;H02J7/0034;H02J7/0068	06/15/2021	YF

<b>US Classification - Searched*</b>			
<b>Class</b>	<b>Subclass</b>	<b>Date</b>	<b>Examiner</b>
320	109	06/15/2021	YF

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

<b>Search Notes</b>		
<b>Search Notes</b>	<b>Date</b>	<b>Examiner</b>
B60L53/53;H02J7/0034;H02J7/0068;H02J2207/20;H02J7/0029;H02J9/005 with text search was conducted	06/15/2021	YF
Inventors" search was conducted	06/15/2021	YF
IDS and NPL search was conducted	06/15/2021	YF
EAST Search (See Printout)	06/15/2021	YF
IDS, NPL and search update was conducted	06/29/2021	YF

<b>Interference Search</b>			
<b>US Class/CPC Symbol</b>	<b>US Subclass/CPC Group</b>	<b>Date</b>	<b>Examiner</b>
320 / B60L	109 / 53/00	06/15/2021	YF

/YALKEW FANTU/ Primary Examiner, Art Unit 2859	06/29/2021
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Complete if Known</b>	
				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	FANTU, YALKEW
				Examiner Name	2859
Sheet	1	of	1	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	6459175	10-01-2002	Potega	
	2	2005/0212521	09-29-2005	Bertness	
	3	2011/0216451	09-08-2011	Haines et al.	
	4	2016/0079776	03-17-2016	Iguchi et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> ; Number <sup>3</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	5	GANOZA, Laura, "Re: Your Letters on Behalf of Pilot, Inc. to Baccus Global LLC Addressing Pilot Jump Starter Patents," Foley & Lardner, LLP, December 15, 2020, 20 pages.
	6	Office Action for US Application No. 17/236,302, mailed June 23, 2021 (Attorney Ref. No. 8523WANG-1-CON-7)
	7	Office Action for US Application No. 17/236,339, mailed June 18, 2021 (Attorney Ref. No. 8523WANG-1-CON-8)

Examiner Signature	/YALKEW FANTU/	Date Considered	07/01/2021
--------------------	----------------	-----------------	------------

\*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.

<b>Doc Code: DIST.E.FILE</b> <b>Document Description: Electronic Terminal Disclaimer - Filed</b>		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	<b>TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT</b>	
Application Number	17236260	
Filing Date	21-Apr-2021	
First Named Inventor	Calvin WANG	
Attorney Docket Number	8523WANG-1-CON-5	
Title of Invention	AUTOMOBILE CHARGER	
<input checked="" type="checkbox"/> Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action  <input checked="" type="checkbox"/> This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.		
Owner	Percent Interest	
Pilot Inc.	100%	
<p>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)</p> <p>10875410</p> <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> <li>- expires for failure to pay a maintenance fee;</li> <li>- is held unenforceable;</li> <li>- is found invalid by a court of competent jurisdiction;</li> <li>- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;</li> <li>- has all claims canceled by a reexamination certificate;</li> <li>- is reissued; or</li> <li>- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.</li> </ul> <p><input checked="" type="radio"/> Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.</p>		

<input type="radio"/> 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:  <input type="radio"/> Small Entity  <input type="radio"/> Micro Entity  <input checked="" type="radio"/> 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:  <input checked="" type="radio"/> An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application  Registration Number <u>45285</u>  <input type="radio"/> A sole inventor  <input type="radio"/> 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  <input type="radio"/> 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

<b>Application Number:</b>	17236260			
<b>Filing Date:</b>	21-Apr-2021			
<b>Title of Invention:</b>	AUTOMOBILE CHARGER			
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG			
<b>Filer:</b>	Jason Vick/Joanne Vos			
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5			
Filed as Large Entity				
<b>Filing Fees for    Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	170	170
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				

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.: 17236260

Filing Date: 21-Apr-2021

Applicant/Patent under Reexamination: WANG

Electronic Terminal Disclaimer filed on June 28, 2021

☒ 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

<b>EFS ID:</b>	43110042
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	28-JUN-2021
<b>Filing Date:</b>	21-APR-2021
<b>Time Stamp:</b>	17:06:27
<b>Application Type:</b>	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	E20216RH06231716
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	33488	no	2
			ddc3d01c832db216349a41cc520d86a1b2500e67		

### Warnings:

### Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30429	no	2
			14737ba38804fed8ef8bf063e431ef691b6ae2f5		

### Warnings:

### Information:

<b>Total Files Size (in bytes):</b>	63917
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**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

#### New Applications Under 35 U.S.C. 111

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

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

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

#### New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: Calvin Shiening Wang	)	Group Art Unit: 2859
Application No.: 17/236,260	)	Examiner: FANTU, YALKEW
Filed: April 21, 2021	)	Confirmation No.: 2096
Atty. File No.: 8523WANG-1-CON-5	)	
	)	

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 June 24, 2021. 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 Claims** are shown in the listing of claims which begins on page 2 of this paper.

**Remarks** begin on page 5 of this paper.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin Shiening WANG
				Art Unit	FANTU, YALKEW
				Examiner Name	2859
Sheet	1	of	1	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	6459175	10-01-2002	Potega	
	2	2005/0212521	09-29-2005	Bertness	
	3	2011/0216451	09-08-2011	Haines et al.	
	4	2016/0079776	03-17-2016	Iguchi et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> ; Number <sup>3</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No. <sup>1</sup>	
	5	GANOZA, Laura, "Re: Your Letters on Behalf of Pilot, Inc. to Baccus Global LLC Addressing Pilot Jump Starter Patents," Foley & Lardner, LLP, December 15, 2020, 20 pages.
	6	Office Action for US Application No. 17/236,302, mailed June 23, 2021 (Attorney Ref. No. 8523WANG-1-CON-7)
	7	Office Action for US Application No. 17/236,339, mailed June 18, 2021 (Attorney Ref. No. 8523WANG-1-CON-8)

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*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: 2859
Calvin Shiening WANG	)	Confirmation No.: 2096
Serial No.: 17/236,260	)	Examiner: FANTU, YALKEW
Filed: April 21, 2021	)	
Atty File No.: 8523WANG-1-CON-5	)	<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. \_\_\_\_\_ 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.

### FEES

<input type="checkbox"/>	<p><b>37 CFR 1.97(b):</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):</p> <div style="margin-left: 20px;"> <input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or   <input type="checkbox"/> 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   <input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or   <input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.         </div> <p>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.</p>
<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> 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:</p> <div style="margin-left: 40px;">           (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.         </div> <p>This Information Disclosure Statement is accompanied by:</p> <div style="margin-left: 20px;"> <input type="checkbox"/> 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.   <div style="text-align: center;">OR</div> <input checked="" type="checkbox"/> 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.         </div>
<input type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <div style="margin-left: 20px;"> <input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)   <div style="text-align: center;">AND</div> <input type="checkbox"/> 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.         </div>

**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: June 28, 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](mailto:jvick@sheridanross.com)

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	17236260			
<b>Filing Date:</b>	21-Apr-2021			
<b>Title of Invention:</b>	AUTOMOBILE CHARGER			
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG			
<b>Filer:</b>	Jason Vick/Joanne Vos			
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5			
Filed as Large Entity				
<b>Filing Fees for    Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				

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



## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	43110217
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	28-JUN-2021
<b>Filing Date:</b>	21-APR-2021
<b>Time Stamp:</b>	17:12:15
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$260
RAM confirmation Number	E20216RH12321888
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		AMEND_01_CON-5.pdf	88363	yes	5
			a5b6dd064750071bfd93f55be36c84e297bba269		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		5	5	
	Claims		2	4	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
Warnings:					
Information:					
2		IDS_02_CON-5.pdf	227322	yes	4
			c75e08d6aa4ef625efd138f607a49e9b3e09335b		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Information Disclosure Statement (IDS) Form (SB08)		4	4	
	Letter specifying the conditions for filing under 37CFR1.97		1	3	
Warnings:					
Information:					
3	Non Patent Literature	GANOZA_re_your_letters_on_behalf_of_pilot_2020-12-15.pdf	14502919	no	20
			3ee4a407a5b18cbcb617bbcccd21ea04e30e27843a		
Warnings:					
Information:					

4	Non Patent Literature	8523WANG-1- CON-7_OA_06-23-2021.pdf	642976  60ae49d1aa99455efab4d606bb49a6f91ab31a22	no	16
<b>Warnings:</b>					
<b>Information:</b>					
5	Non Patent Literature	8523WANG-1- CON-8_OA_06-18-2021.pdf	230231  8df0645cb837952ae27da60854798135aae7b548	no	7
<b>Warnings:</b>					
<b>Information:</b>					
6	Fee Worksheet (SB06)	fee-info.pdf	30462  e788da06ea648a045bcd3629d325bf204cdee02	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			15722273		
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>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.</b></p>					

## **REMARKS**

Applicant respectfully requests reconsideration of this application.

Applicant respectfully submits the double patenting rejection is moot in view of the Electronic Terminal Disclaimer in view of U.S. Patent No. 10,875,410 filed and approved on June 28, 2021. 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: June 28, 2021

By: /Jason H. Vick/  
Jason H. Vick  
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### **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. (Previously Presented) 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, connected to the microcontroller, to detect when the jumpstarter is correctly connected to the automobile battery;

the microcontroller generating, when the jumpstarter is correctly connected to the automobile battery, 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. (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.

13. (Previously Presented) The jumpstarter of claim 12, wherein the plurality of MOSFETs are connected in parallel.

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

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

16. (Previously Presented) The jumpstarter of claim 15, further wherein the microcontroller closes all outputs when a voltage of the direct current power supply is lower than that of a state being able to supply power.

17. (Previously Presented) The jumpstarter of claim 7, wherein the supply power to the automobile battery is 12 volts.

18. (Previously Presented) The jumpstarter of claim 12, wherein the plurality of MOSFETs are connected in a series-parallel topology.

19. (Previously Presented) The jumpstarter of claim 7, wherein the predetermined voltage is 10 volts.

20. (Previously Presented) The jumpstarter of claim 15, wherein the jumpstarter is in a standby mode when the battery has less than 9 volts.

21. (Previously Presented) The jumpstarter of claim 15, wherein the jumpstarter is not in a standby mode when the battery has more than 10 volts.

22. (Previously Presented) The jumpstarter of claim 15, wherein the jumpstarter is in a normal mode when the battery has more than 10 volts.

23. (Previously Presented) The jumpstarter of claim 7, further comprising a start control module to prevent recharging of a normal voltage of the battery.

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

25. (Previously Presented) The jumpstarter of claim 7, wherein the at least one switch switches a negative voltage.

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

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

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

29. (Previously Presented) The jumpstarter of claim 28, wherein the voltage back-flow protection for an abnormal load.

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

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.

<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875				Application or Docket Number 17/236,260		Filing Date 04/21/2021		<input type="checkbox"/> To be Mailed			
ENTITY: <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> MICRO											
<b>APPLICATION AS FILED - PART I</b>											
		(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)			
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A					
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A					
<input type="checkbox"/> 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 \$100 =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$480 =					
<input type="checkbox"/> 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).									
<input type="checkbox"/> 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					
<b>APPLICATION AS AMENDED - PART II</b>											
		(Column 1)		(Column 2)		(Column 3)					
<b>AMENDMENT</b>	06/28/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 24	Minus	** 24	= 0			x \$100 =		0	
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 3	= 0			x \$480 =		0	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE		0	
		(Column 1)		(Column 2)		(Column 3)					
<b>AMENDMENT</b>		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 =			
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))										
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								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.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/236,260	04/21/2021	Calvin Shiening WANG	8523WANG-1-CON-5	2096
22442	7590	06/24/2021	EXAMINER	
Sheridan Ross PC			FANTU, YALKEW	
1560 Broadway			ART UNIT	PAPER NUMBER
Suite 1200			2859	
Denver, CO 80202			NOTIFICATION DATE	DELIVERY MODE
			06/24/2021	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



## **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. The instant application with Application Number 17/236,260 filed on 04/21/2021 is presented for examination. as per the remarks of 04/21/2021, claims 1-6 are cancelled. Claims 7-30 are pending.

### ***Priority***

Receipt is acknowledged of certified copies of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Double Patenting***

The non-statutory 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. A non-statutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *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) or 1.321(d) may be used to overcome an actual or provisional rejection based on a non-statutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit <http://www.uspto.gov/forms/>. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission.

Claim 7 is rejected on the ground of non-statutory double patenting as being unpatentable over **claim 1** of the patented application number **US 10,875,410**. Although the claims at issue are not identical, they are not patentably distinct from each other because they both deal with a jumpstarter device with voltage regulator, load detector and microcontroller with a switching circuitry.

The examined claim 7 of the instant application is anticipated by the patented US application of US 10,875,410.

Claim 1 of a co-pending application number 17/131,113 is also similar to claim 7 of the instant application that could also be considered during reviewing the office action for similar non-statutory double patenting rejections.

Claim 1 of the instant application Number <b>17/236,260</b>	Claim 1 of the patn'd application <b>10/875,410</b>
<u>1. 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, connected to the microcontroller, to detect when the jumpstarter is correctly connected to the automobile battery; the microcontroller generating, when the jumpstarter is correctly connected to the automobile battery, 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.</u>	<u>1. A jumpstarter device comprising: a battery connected to a voltage regulator, the battery supplying power, via the voltage regulator, to a microcontroller; a load detector, connected to the microcontroller, to detect when the jumpstarter device is connected to an automobile battery; a battery voltage detector, connected to the microcontroller, to detect a battery voltage of the battery; the microcontroller generating, when the jumpstarter device is connected to the automobile battery, an output signal based on a detected battery voltage; switching circuitry including a plurality of MOSFETs to selectively connect a terminal of the battery to the automobile battery when the microcontroller generates the output signal, such that the battery supplies a charging current to the automobile battery ...</u>

Claims 8-30 are dependent on rejected claim 7 above, hence rejected, at least for their dependency on rejected claim 7.

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YALKEW FANTU whose telephone number is (571)272-8928. The examiner can normally be reached on Monday-Friday 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DREW A DUNN can be reached on 571-272-2312. 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.

/YALKEW FANTU/  
Primary Examiner, Art Unit 2859

<b><i>Notice of References Cited</i></b>	Application/Control No. 17/236,260		Applicant(s)/Patent Under Reexamination WANG et al.	
	Examiner YALKEW FANTU		Art Unit 2859	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-20060244412-A1	11-2006	Bonzer; Robert	H02J7/00309	320/105
*	B	US-5793185-A	08-1998	Prelec; Michael L.	H02J7/0042	320/104
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*	F	US-10875410-B2	12-2020	Wang; Calvin Shiening	H02J7/0063	1/1
	G					
	H					
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	K					
	L					
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**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.

<b>Search Notes</b> 	<b>Application/Control No.</b> 17/236,260	<b>Applicant(s)/Patent Under Reexamination</b> WANG et al.
	<b>Examiner</b> YALKEW FANTU	<b>Art Unit</b> 2859

<b>CPC - Searched*</b>		
<b>Symbol</b>	<b>Date</b>	<b>Examiner</b>
B60L53/00	06/15/2021	YF

<b>CPC Combination Sets - Searched*</b>		
<b>Symbol</b>	<b>Date</b>	<b>Examiner</b>
B60L53/53;H02J7/0034;H02J7/0068	06/15/2021	YF

<b>US Classification - Searched*</b>			
<b>Class</b>	<b>Subclass</b>	<b>Date</b>	<b>Examiner</b>
320	109	06/15/2021	YF

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

<b>Search Notes</b>		
<b>Search Notes</b>	<b>Date</b>	<b>Examiner</b>
B60L53/53;H02J7/0034;H02J7/0068;H02J2207/20;H02J7/0029;H02J9/005 with text search was conducted	06/15/2021	YF
Inventors" search was conducted	06/15/2021	YF
IDS and NPL search was conducted	06/15/2021	YF
EAST Search (See Printout)	06/15/2021	YF

<b>Interference Search</b>			
<b>US Class/CPC Symbol</b>	<b>US Subclass/CPC Group</b>	<b>Date</b>	<b>Examiner</b>
320 / B60L	109 / 53/00	06/15/2021	YF

/YALKEW FANTU/ Primary Examiner, Art Unit 2859	06/15/2021
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Complete if Known</b>	
				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin WANG
				Art Unit	2851
				Examiner Name	
Sheet	1	of	12	Attorney Docket Number	8523WANG-1-CON-5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2 (if known)</sup>	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	/YALKEW FANTU/	Date Considered	06/19/2021
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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.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Complete if Known</b>	
				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin WANG
				Art Unit	2851
				Examiner Name	
Sheet	2	of	12	Attorney Docket Number	8523WANG-1-CON-5

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	37	8172603	05-08-2012	Richardet Jr.	
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209	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION</b> ; 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)
210	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION</b> ; 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)
211	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 <b>PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION</b> ; 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)
212	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. GOOLOO TECHNOLOGY LLC and SHENZHEN GOOLOO E-COMMERCE CO. LTD.</b> ; 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)
213	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. AUKEY TECHNOLOGY CO. LTD. and SHENZHEN AUKEY E-BUSINESS CO., LTD.</b> ; 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)
214	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. THE DURACELL COMPANY</b> ; 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)
215	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. THE NOCO COMPANY, INC.</b> ; 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)
216	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. BATTERY-BIZ, INC.</b> ; 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)

Examiner Signature	/YALKEW FANTU/	Date Considered	06/19/2021
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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.

## EAST Search History

### EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6,273	b60l53/00.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 17:52
L3	56,010	(B60L53/53  H02J7/0034  H02J7/0068  H02J2207/20  H02J7/0029  H02J9/005).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:07
L4	3,624	320/109.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:07
L5	22	((("WANG") near3 ("Calvin") near3 ("Shiening"))).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:08
L6	14	((("WANG") near3 ("Chung-Hsin"))).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:09
L7	92	("0000001"   "0000002"   "0000006"   "0000008"   "0000035"   "0000075"   "0000636"   "0000926"   "0006130"   "0006344"   "10046653"   "10328806"   "17236279"   "17236302"   "17236339"   "20010038276"   "20020075003"   "20030096158"   "20040066168"   "20040130298"   "20050110467"   "20050162124"   "20050258797"   "20090008374"   "20090174362"   "20100013302"   "20100055546"   "20100173182"   "20100181959"   "20100244766"   "20100301800"   "20110127947"   "20110279089"   "20120013189"   "20120025763"   "20120068662"   "20120139498"   "20130015814"   "20130154543"	US-PGPUB; USPAT	AND	ON	2021/06/19 18:10

		"20130241488"   "20140159509"   "20150012174"   "20150032312"   "20150212135"   "20150340907"   "20210107365"   "3267452"   "3343057"   "3950668"   "3950688"   "4871957"   "5319298"   "5487002"   "5793185"   "5831350"   "6057667"   "6160381"   "6249106"   "6262492"   "6271605"   "6351102"   "6424158"   "6426606"   "6632103"   "6774607"   "6803743"   "7199555"   "7339347"   "7345450"   "7579811"   "7656118"   "7675261"   "8072900"   "8125181"   "8172603"   "8183821"   "8447543"   "8565930"   "8692513"   "8723477"   "8994327"   "9007015"   "9007023"   "9248746"   "9263907"   "9287725"   "9333865"   "9352652"   "9412994"   "9496728"   "9506446"   "9525297"   "9871392"   "9874611"   "9954391").PN.				
L8	92	("0000001"   "0000002"   "0000006"   "0000008"   "0000035"   "0000075"   "0000636"   "0000926"   "0006130"   "0006344"   "10046653"   "10328806"   "17236279"   "17236302"   "17236339"   "20010038276"   "20020075003"   "20030096158"   "20040066168"   "20040130298"   "20050110467"   "20050162124"   "20050258797"   "20090008374"   "20090174362"   "20100013302"   "20100055546"   "20100173182"   "20100181959"   "20100244766"   "20100301800"   "20110127947"   "20110279089"   "20120013189"   "20120025763"   "20120068662"   "20120139498"   "20130015814"   "20130154543"   "20130241488"   "20140159509"   "20150012174"   "20150032312"   "20150212135"   "20150340907"   "20210107365"   "3267452"   "3343057"   "3950668"   "3950688"   "4871957"   "5319298"   "5487002"   "5793185"   "5831350"   "6057667"   "6160381"   "6249106"   "6262492"   "6271605"   "6351102"   "6424158"   "6426606"   "6632103"   "6774607"   "6803743"   "7199555"   "7339347"   "7345450"   "7579811"   "7656118"   "7675261"   "8072900"   "8125181"   "8172603"   "8183821"   "8447543"   "8565930"   "8692513"   "8723477"   "8994327"	US-PGPUB; USPAT	AND	ON	2021/06/19 18:14

		"9007015"   "9007023"   "9248746"   "9263907"   "9287725"   "9333865"   "9352652"   "9412994"   "9496728"   "9506446"   "9525297"   "9871392"   "9874611"   "9954391").PN.				
L10	1,744	3 and ((jumpstart\$2 or charg\$2)(voltage near regulator))	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:17
L11	1,556	10 and ((microcontrol\$3 or microcomputer or control\$3)(battery)(supply power))	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:18
L13	8	11 and ((load near detector)(automobile or car or vehicle)(battery)(switch\$3)(output)(charg\$3 near current))	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:20
L14	77	4 and ((jumpstart\$2 or charg\$2)(voltage near regulator))	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:21
L15	64	14 and ((microcontrol\$3 or microcomputer or control\$3)(battery)(supply power))	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:21
L20	5,529	320/107.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L21	20	US-6449726-\$.DID. OR US-20080079562-\$.DID. OR US-7635965-\$.DID. OR US-5793185-\$.DID. OR US-8111998-\$.DID. OR US-20060244412-\$.DID. OR US-1122008-\$.DID. OR US-20090028177-\$.DID. OR US-1292009-\$.DID. OR US-2231314-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L22	13	((Richard) near2 (Hulden)).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:32
L23	72	((Derek) near2 (Nash)).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:32
L24	24	((Dennis) near2 (O'Donnell)).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:32
L25	2,024	320/104,105.ccls.	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2021/06/19 18:32

			EPO; JPO; DERWENT; IBM_TDB			
L26	464	L25 and (monitor)(battery voltage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L27	158	L26 and (lead acid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L28	34	L27 and (communica\$3)(remote)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L29	31	L28 and (processor or microcontrol\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L30	31	L29 and (charge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L31	18	L30 and (predetermined or preset)(time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L32	42	("20060028178"   "20060060236"   "20090079389"   "20090082957"   "20090313174"   "20100145717"   "20100161482"   "5202617"   "5803215"   "5847537"   "6232743"   "6371230"	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:32



		"6614204"   "7256516"   "7259664").PN. OR ("8299754").URPN.				
L33	1,089	340/636.1,636.21.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:32
L34	388	L33 and (monitor)(battery voltage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L35	65	L34 and (lead acid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L36	21	L35 and (communica\$3)(remote)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L37	18	L36 and (processor or microcontrol\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L38	15	L37 and (charge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L39	9	L38 and (predetermined or preset)(time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32

L40	209	("3786343"   "3940679"   "3971980"   "4044300"   "4050717").PN. OR ("4217645").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:32
L41	7,187	h02j7/0042.cpc.	US-PGPUB; USPAT; USOCR	AND	ON	2021/06/19 18:32
L42	1,877	L41 and (monitor)(battery voltage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L43	368	L42 and (lead acid)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L44	206	L43 and (communica\$3)(remote)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L45	186	L44 and (processor or microcontrol\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L46	186	L45 and (charge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
L47	158	L46 and (predetermined or preset)(time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32

L48	69	((process)(monitor)(battery voltage)(remote)(jumpstart))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2021/06/19 18:32
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### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L19	3	((jumpstarter or charger)(voltage near regulator)(power)(microcontrol\$3)(automobile or vehicle or car)(battery)(load near detect\$2)(connect\$2 or link\$2 or interfac\$2)(microcontrol\$3 or control\$3 or microcomput\$2)(switch\$3)).clm.	US-PGPUB; USPAT	AND	ON	2021/06/19 18:27
L49	1	"10875410".pn.	US-PGPUB; USPAT	AND	ON	2021/06/19 18:41

6/19/2021 7:08:57 PM

C:\Users\yfantu1\Documents\EAST\Workspaces\17236260.battry.jumpstart.wsp

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2851
Calvin WANG	)	Confirmation No.: 2096
Serial No.: 17/236,260	)	Examiner:
Filed: April 21, 2021	)	
Atty File No.: 8523WANG-1-CON-5	)	<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. 8523WANG-1)
  - Serial No. 15/355,409 filed Nov. 18, 2016 US Patent No. 10,046,653 (Attorney Ref. No. 8523WANG-1-CON)

- Serial No. 15/923,219 filed Mar. 16, 2018 US Patent No. 10,328,806 (Attorney Ref. No. 8523WANG-1-CON-2)
- Serial No. 16/404,321 filed May 6, 2019 US Patent No. 10,875,410 (Attorney Ref. No. 8523WANG-1-CON-3)
- Serial No. 17/131,113 filed Dec. 22, 2020 (Attorney Ref. No. 8523WANG-1-CON-4)
- Serial No. 17/236,279 filed Apr. 21, 2021 (Attorney Ref. No. 8523WANG-1-CON-6)
- Serial No. 17/236,302 filed Apr. 21, 2021 (Attorney Ref. No. 8523WANG-1-CON-7)
- Serial No. 17/236,339 filed Apr. 21, 2021 (Attorney Ref. No. 8523WANG-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

- 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

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

<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(b):</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):</p> <p><input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or</p> <p><input type="checkbox"/> 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</p> <p><input checked="" type="checkbox"/> Before the mailing date of a first Office Action on the merits, or</p> <p><input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.</p> <p>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.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> 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:</p> <p>(1) a final action under 37 C.F.R. 1.113 or</p> <p>(2) a notice of allowance under 37 C.F.R. 1.311, or</p> <p>(3) an action that otherwise closes prosecution in the application.</p> <p>This Information Disclosure Statement is accompanied by:</p>

	<p><input type="checkbox"/> 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.</p> <p style="text-align: center;">OR</p> <p><input type="checkbox"/> 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.</p>
<p><input type="checkbox"/></p>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <p><input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)</p> <p style="text-align: center;">AND</p> <p><input type="checkbox"/> Applicants hereby request 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.</p>

**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: May 17, 2021By: /Jason H. Vick/

Jason H. Vick

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Denver, Colorado 80202

Telephone: 303-863-9700

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/YALKEW FANTU/

06/19/2021



## Bibliographic Data

Application No: 17/236,260

Foreign Priority claimed: ☒ Yes ☐ No

35 USC 119 (a-d) conditions met: ☒ Yes ☐ No ☐ Met After Allowance

Verified and Acknowledged: /YALKEW FANTU/

Examiner's Signature

Initials

Title: AUTOMOBILE CHARGER

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FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
04/21/2021	320	2859	8523WANG-1-CON-5
RULE			

### APPLICANTS

PILOT INC., City of Industry, CA,

### INVENTORS

Calvin Shiening WANG, City of Industry, CA, UNITED STATES

Chung-Hsin WANG, Shenzhen, CHINA

### CONTINUING DATA

This application is a CON of 17131113 12/22/2020

17131113 is a CON of 16404321 05/06/2019 PAT 10875410

16404321 is a CON of 15923219 03/16/2018 PAT 10328806

15923219 is a CON of 15355409 11/18/2016 PAT 10046653

15355409 is a CON of 14569352 12/12/2014 PAT 9525297

### FOREIGN APPLICATIONS

CHINA CN201420212173.5 04/28/2014

### IF REQUIRED, FOREIGN LICENSE GRANTED\*\*

04/27/2021

### STATE OR COUNTRY

UNITED STATES

### ADDRESS

Sheridan Ross PC

1560 Broadway

Suite 1200

Denver, CO 80202

UNITED STATES

### FILING FEE RECEIVED

\$6,560



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/236,260	04/21/2021	Calvin Shiening WANG	8523WANG-1-CON-5	2096
22442	7590	06/04/2021	EXAMINER	
Sheridan Ross PC 1560 Broadway Suite 1200 Denver, CO 80202			ART UNIT	PAPER NUMBER
			2851	
			NOTIFICATION DATE	DELIVERY MODE
			06/04/2021	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

<b><i>Decision Granting Request for Prioritized Examination (Track I)</i></b>	<b>Application No.</b> 17/236,260	<b>Applicant(s)</b> WANG et al.	
	<b>Examiner</b> CHERYL P GIBSON BAYLOR	<b>Art Unit</b> OPET	<b>AIA (FITF) Status</b> Yes
<p>1. THE REQUEST FILED <u>21 April 2021</u> IS <b>GRANTED</b> .</p> <p>The above-identified application has met the requirements for prioritized examination</p> <p>A. <input checked="" type="checkbox"/> for an original nonprovisional application (Track I).</p> <p>B. <input type="checkbox"/> for an application undergoing continued examination (RCE).</p> <p>2. <b>The above-identified application will undergo prioritized examination.</b> The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:</p> <p>A. filing a <b><u>petition for extension of time</u></b> to extend the time period for filing a reply;</p> <p>B. filing an <b><u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u></b>, or a multiple dependent claim;</p> <p>C. filing a <b><u>request for continued examination</u></b> ;</p> <p>D. filing a notice of appeal;</p> <p>E. filing a request for suspension of action;</p> <p>F. mailing of a notice of allowance;</p> <p>G. mailing of a final Office action;</p> <p>H. completion of examination as defined in 37 CFR 41.102; or</p> <p>I. abandonment of the application.</p> <p>Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.</p>			
/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET			



## ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #  
**17/236,260**

RECEIPT DATE / TIME  
**05/17/2021 04:30:56 PM ET**

ATTORNEY DOCKET #  
**8523WANG-1-CON-5**

### Title of Invention

AUTOMOBILE CHARGER

### Application Information

APPLICATION TYPE Utility - Nonprovisional Application  
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 2096

FILED BY Joanne Vos

PATENT CENTER # 60196249

FILING DATE 04/21/2021

CUSTOMER # 22442

FIRST NAMED  
INVENTOR Calvin Shiening WANG

CORRESPONDENCE  
ADDRESS -

AUTHORIZED BY Jason Vick

### Documents

**TOTAL DOCUMENTS: 97**

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AU6997198A.pdf	15	Foreign Reference	2139 KB
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## Digest

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Product_Review_Pocket_Charger_Jump_Starter_TexasBowhunter.pdf	2392D7D155C05C6597D231D4B6F123BA0212FB2C757CA7FA0CDEA62CD0353D9906098FEDF815A352D0FB09250911C8AE99EE081D99914A0B56DD6594FEED8344
Profi_Power_12VDC_Mini_Jump_25_pages.pdf	DFA73754B0EBBDA3D655A2D789A20A4328059035E76D95676BA5FA3231D69ED987BCBD47231CEA954A017E795BC9EBC05F2D669B486544964A000FC79D8591BB
Profi_Power_12VDC_Mini_Jump_9_pages.pdf	8228939743EDAA0123830249663AFECA9537F1F96B7447553CA96A9F8CDB7C4CDC357BC766CDFB2AC60934C4F07B9FF0A69C0ED03C099F853ACF0F411DE4751F
Profi_Power_Power_Punch_12VDC_8_pages.pdf	74C1DCEEC4C77E5EF1E96F3D918553E309A1C0BC67F2A9CF4655C59D01DD07A3C7AFBB2429ECB902386D33933B864EC2ABE41D84D1194FE075CEB46C0B9A099D
Profi_Power_Starthilfe_Mini_Jump_JPR4500.pdf	E60B734A4A211B41434C57855DA06171F6B1DDFE34EE09105D78B545F3D1035D47BEB0C9E49716A2C274D6F1E1C7CAE07452416F4A9DED16A673C4FDB7A6F945

Projecta_3000A_12_24V_High_Cranking_Sure_Start_Jumpstarter.pdf	3D8382E5FA7C2550E08B33F09937AAA13CC4BCE26746D9A55F8337187452CCD07829FC06A0C2C3996490E602C536BA424534D759421A1C272C29A027B79B4945
Projecta_New_Projecta_Jump_Starters.pdf	E801EA883B6BB4689CDFF7BFBF1E2523269DD30DB372BF83F72CD8C5181D8F47BCB547BC9A520C4538591B349C6E5477B1671D5515BDA6451142456E0162D77D
RAMSEY_Smartphone_battery_backup_that_will_jump.pdf	A217AAAC6ADCD88D61C29A652580EFD8A66AE8DEB5BDE495698B6D98AAB8B6FD9CBD0E2E2154865C4877317582E7865B796893058CE7FAA3A7A733EFB3E1F0D0
REDFUEL_Model_SL1.pdf	CCCF574C30EDB2EF81627AF971F5E0FDDEF15A8668B9D18A2C140789EB3C77D48A605D4C3018A71141D68BB30F59573B954640522583FA34B525002A3C335A8B
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RESCUE_Portable_Power_Pack_Instructions.pdf	6E889F932B571A3B75D8FC357E5E243F176C1EAA8101F0953DFD140A805A70F0C682261A3125DD33FB1E11A6ABC397A8CEAF811CE86FA836BD5EA0FD3FFA85F8
RESCUE_Portable_Power_Pack_Model_2100_Product_Spec.pdf	31D8551B1412F1BFB207E3E311C558ED70016CE924939C67C225ED7BC42DF4EF9DB21684BC4BF2B3392CC6F2279A35660EC7855EFF0A319C71ACFAF412739E34
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Sealey_LSTART_RANGE.pdf	412D0ACFC934A17E41C836A31BAB2A015F7539EF9C5089BF878E83B7217C7A7EE29C2B6A4B2DFD2B29FB879BC0844FC409C63E3174B9AE4C19AB119BFEE583A3

Sema_Tools_For_Making_The_Job_Quicker.pdf	D09D54BFD3221BA2D92295009A06BA3AC6C59295BAC5E26B5F31AF9E6810E2E03C49DA7298CF609DA115843BC5F328A15382D2EFC311D58EFBB2505A4FE74D5E
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WARD_Jumper_Cables_Avoid_Surges.pdf	2E028F147D13C8B5438632AD8038698220F6F6BE933D13A528683C6E0E68777499FB137AADE81A2BDA7231FA67D33B682A88B1587ADCF3727529CFA7E36DEF74

Why_PowerSafe_Jumper_Cables_Are_Necessary.pdf	1B7FB1AFEE264D4A39043965568AAE720EB8A18986EA37434EB65AB7343BA7AAA8A9F4E86B14BC9696EDC9A8BEF59CFB8704BA85658955BC4D92B48C56778CA4
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8523WANG-1_OA_08-31-2016.pdf	4B67F51DCCA266FFC8FACB00B0F52BC63526ABE6FB178A7F283D35A493A4CF11475C8F0480CA22B257E9FCEB74E66A9DA23A06F2B5DE2BB5ED8D4426F29609FD
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8523WANG-1-CON_OA_12-14-2017.pdf	87D01A7DD1355F643B4A0130E4AFE7544B633BF5A65EB0B4CFCA95E59C3930892B55B44B6B0A840875C7CDC48D9AB4EC28FD8F81FCB277603447760ED75DB0AD
8523WANG-1-CON_OA_05-03-2018.pdf	097C7259AA09568C90BAB2145A515C8654EACCBBCBA105A5B9382C367692260E400B3296A8601A2C07367BA81DB93860D7CA5ACF89E75393BD380197886D8F7FD
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8523WANG-1-CON-2_NOA_04-05-2019.pdf	6753AD7C1FE0E243135C98F4D45D23C9BFD08F89A2B0E757AA4753DDE0B5BDD2BF5B11BFD0BAF47B2D7F65EF4F1A70C910E99EBE5F9ABDE52416D75E1118B33A
8523WANG-1-CON-3_OA_04-27-2020.pdf	8343F99D3D5EA66376769367C0DF2A445D81B02B2D9B665FBEA0B3C98C96F4F4846C9EC8A723102EB4D22093041B979BCA88C22E48A2BFC8F741792EBF747481

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8523WANG-1-CON-3_NOA_10-13-2020.pdf	25EDF0CB1408DEC4A86CB742D92DCFB44F7C19701AA6CC7B 93F9D098A5B05765ABF2D13030EF9BC9166AF7986218030F10 0264A2DDBE11AE094DC669999B1717
PART_001_IPR2018-00488_PET_001.pdf	F534EB0EC1690DAA9E074CA3D65A1847015019061117FF0AC E90687B1DB10EA765B20E88965C2C152A285D9E47E5A81A35 DBC5B8F58CB200B47EF57D43C27BA5
PART_001_IPR2018-00488_PET_002.pdf	A4C831110DA4BB31C9D026DCFA305B558E32479A840951592 CF1F0AA9AAFF4B41F7BD4F68B7575F44FBF33C7DE4A7AFA3 6CE75B6914D82DFB3FCA1E52CEA72A7
PART_002_IPR2018-00488.pdf	384C62755ADF0F196B44067554E6A6D375898E41BC1D5DADE D36F2F4E02BA487F1FE66BCF97D68FBA438A14C5FF2E0FED B48F019553C4185C746AC5B58A5508F
PART_003_IPR2018-00488_Decision.pdf	6CA58F0974C38684791195273F5129F78A6E1388237BEAFA2A 3EAB127E42309EE25EA9250D8A3CCB87468C368EF6D88250E 7B05BAF432AE04F502DA21AB3E6C8
PART_004_IPR2018-00488.pdf	DEB026263430176E95CF43A66F9403CD34792F4A7C77AE888 CE235090CE2130F3BE5408FC0A5921577B4E5B9CACD856040 01616C35DCAA4442C5F3DB1B7E9D0B
PART_005_IPR2018-00488.pdf	273C9EAC95DE1F1717EDAAD1240909EF9CD7E53512B82A4E 537525EB179DA7669F1EB1A98A5C0734ABBF09B97B3C99493 93EAEA0DC918966FE878E6A9C8EA4D1

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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 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.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	17/236,260
				Filing Date	April 21, 2021
				First Named Inventor	Calvin WANG
				Art Unit	2851
				Examiner Name	
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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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First Named Inventor	Calvin WANG
Art Unit	2851
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Attorney Docket Number	8523WANG-1-CON-5

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-kind Code <sup>2</sup> (if known)	Filing Date MM-DD-YYYY	Name of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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				Art Unit	2851
				Examiner Name	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> ; Number <sup>4</sup> ; Kind Code <sup>5</sup> (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 <sup>6</sup>
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				First Named Inventor	Calvin WANG
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190	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, <b>Case No.: IPR 2018-00488</b> ; Filed on July 16, 2018 (31 pages)
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197	Petitioner's Reply Brief filed with SHENZHEN CARKU TECHNOLOGY CO., LTD., v. THE NOCO COMPANY; United States Patent and Trademark Office - Before the Patent Trial and Appeal Board, <b>Case No.: IPR 2020-00944</b> ; Filed on September 1, 2020 (98 pages)
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211	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 <b>PILOT, INC. v. SCHUMACHER ELECTRIC CORPORATION</b> ; 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)
212	Documents filed with U.S. District Court Proceedings for <b>PILOT, INC. v. GOOLOO TECHNOLOGY LLC and SHENZHEN GOOLOO E-COMMERCE CO. LTD.,</b> ; 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)
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## ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #  
**17/236,260**

RECEIPT DATE / TIME  
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ATTORNEY DOCKET #  
**8523WANG-1-CON-5**

### Title of Invention

AUTOMOBILE CHARGER

### Application Information

APPLICATION TYPE Utility - Nonprovisional Application  
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 2096

FILED BY Joanne Vos

PATENT CENTER # 60196276

FILING DATE 04/21/2021

CUSTOMER # 22442

FIRST NAMED INVENTOR Calvin Shiening WANG

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Jason Vick

### Documents

**TOTAL DOCUMENTS: 66**

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
PART_001_IPR 2020-00944_PET_001.pdf	280	Non Patent Literature	4972 KB
PART_001_IPR 2020-00944_PET_002.pdf	326	Non Patent Literature	25249 KB
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by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for 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.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	) Group Art Unit: 2851
Calvin WANG	) Confirmation No.: 2096
Serial No.: 17/236,260	) Examiner:
Filed: April 21, 2021	)
Atty File No.: 8523WANG-1-CON-5	) <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. 8523WANG-1)
  - Serial No. 15/355,409 filed Nov. 18, 2016 US Patent No. 10,046,653 (Attorney Ref. No. 8523WANG-1-CON)

- Serial No. 15/923,219 filed Mar. 16, 2018 US Patent No. 10,328,806 (Attorney Ref. No. 8523WANG-1-CON-2)
- Serial No. 16/404,321 filed May 6, 2019 US Patent No. 10,875,410 (Attorney Ref. No. 8523WANG-1-CON-3)
- Serial No. 17/131,113 filed Dec. 22, 2020 (Attorney Ref. No. 8523WANG-1-CON-4)
- Serial No. 17/236,279 filed Apr. 21, 2021 (Attorney Ref. No. 8523WANG-1-CON-6)
- Serial No. 17/236,302 filed Apr. 21, 2021 (Attorney Ref. No. 8523WANG-1-CON-7)
- Serial No. 17/236,339 filed Apr. 21, 2021 (Attorney Ref. No. 8523WANG-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

- 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

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

<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(b):</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):</p> <p><input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or</p> <p><input type="checkbox"/> 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</p> <p><input checked="" type="checkbox"/> Before the mailing date of a first Office Action on the merits, or</p> <p><input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.</p> <p>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.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> 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:</p> <p>(1) a final action under 37 C.F.R. 1.113 or</p> <p>(2) a notice of allowance under 37 C.F.R. 1.311, or</p> <p>(3) an action that otherwise closes prosecution in the application.</p> <p>This Information Disclosure Statement is accompanied by:</p>

	<p><input type="checkbox"/> 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.</p> <p style="text-align: center;">OR</p> <p><input type="checkbox"/> 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.</p>
<input type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <p><input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)</p> <p style="text-align: center;">AND</p> <p><input type="checkbox"/> Applicants hereby request 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.</p>

**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: May 17, 2021

By: /Jason H. Vick/

Jason H. Vick

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# UNITED STATES PATENT AND TRADEMARK OFFICE

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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
17/236,260	04/21/2021	2685	2220	8523WANG-1-CON-5	24	1

**CONFIRMATION NO. 2096**

## FILING RECEIPT



0000000125206375

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

Date Mailed: 04/28/2021

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:** 04/27/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/236,260**

**Projected Publication Date:** 08/05/2021

**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

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).

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**Title 37, Code of Federal Regulations, 5.11 & 5.15**

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

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technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875						Application or Docket Number 17/236,260				
<b>APPLICATION AS FILED - PART I</b>										
(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), (l), 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(j))	24      minus 20 =	*				x    100    =	400			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1      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	2220			
<b>APPLICATION AS AMENDED - PART II</b>										
(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.										

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.: 8523WANG-1-CON-5		

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 6 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, connected to the microcontroller, to detect when the jumpstarter is correctly connected to the automobile battery;
  - the microcontroller generating, when the jumpstarter is correctly connected to the automobile battery, 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.

13. (New) The jumpstarter of claim 12, wherein the plurality of MOSFETs are connected in parallel.

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

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

16. (New) The jumpstarter of claim 15, further wherein the microcontroller closes all outputs when a voltage of the direct current power supply is lower than that of a state being able to supply power.

17. (New) The jumpstarter of claim 7, wherein the supply power to the automobile battery is 12 volts.

18. (New) The jumpstarter of claim 12, wherein the plurality of MOSFETs are connected in a series-parallel topology.

19. (New) The jumpstarter of claim 7, wherein the predetermined voltage is 10 volts.

20. (New) The jumpstarter of claim 15, wherein the jumpstarter is in a standby mode when the battery has less than 9 volts.

21. (New) The jumpstarter of claim 15, wherein the jumpstarter is not in a standby mode when the battery has more than 10 volts.

22. (New) The jumpstarter of claim 15, wherein the jumpstarter is in a normal mode when the battery has more than 10 volts.

23. (New) The jumpstarter of claim 7, further comprising a start control module to prevent recharging of a normal voltage of the battery.

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

25. (New) The jumpstarter of claim 7, wherein the at least one switch switches a negative voltage.

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

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

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

29. (New) The jumpstarter of claim 28, wherein the voltage back-flow protection for an abnormal load.

30. (New) The jumpstarter of claim 7, 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/  
Jason H. Vick  
Registration No. 45,285  
1560 Broadway, Suite 1200  
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Date: April 21, 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 10, 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 spirits 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 batter 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.

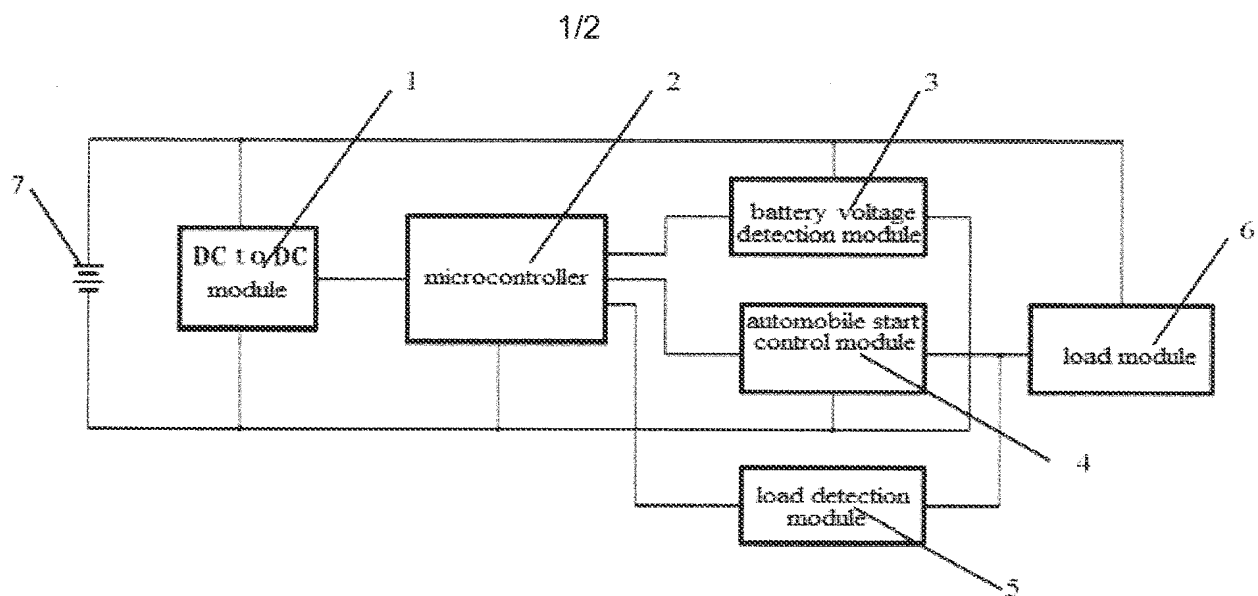
4. The automobile charger according to Claim 1, further comprising the battery voltage detection module being operably configured to provide protection for the power supply battery.

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.

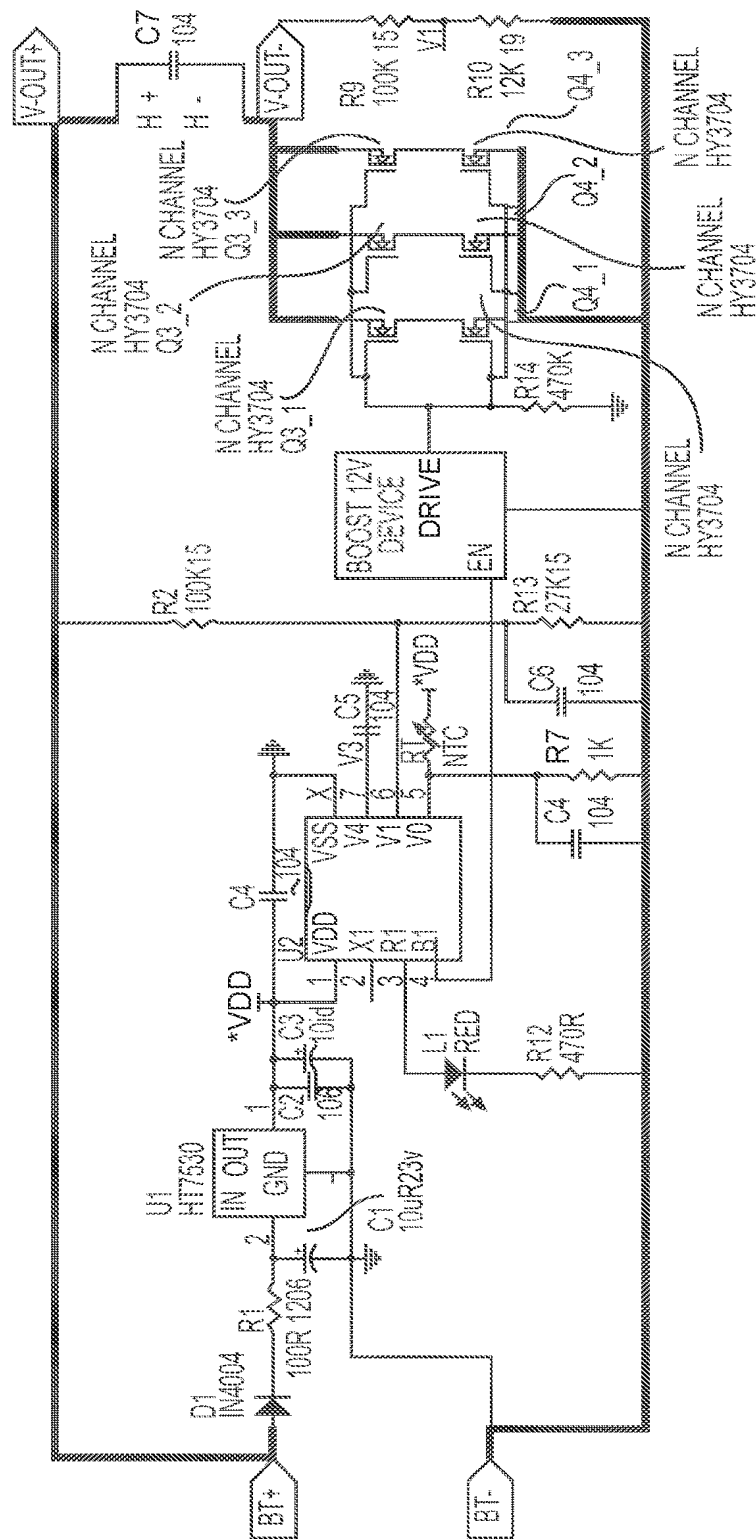
6. The automobile charger according to Claim 1 wherein the automobile start control module is an electronic switch.

**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**



## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>				
<b>Filing Date:</b>				
<b>Title of Invention:</b>	AUTOMOBILE CHARGER			
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG			
<b>Filer:</b>	Jason Vick/Joanne Vos			
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5			
Filed as Large Entity				
<b>Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
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
<b>Pages:</b>				
<b>Claims:</b>				
CLAIMS IN EXCESS OF 20	1202	4	100	400
<b>Miscellaneous-Filing:</b>				

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
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				
<b>Miscellaneous:</b>				
<b>Total in USD (\$)</b>				<b>6560</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	42511314
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	21-APR-2021
<b>Filing Date:</b>	
<b>Time Stamp:</b>	13:36:02
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 6560
RAM confirmation Number	E20214KD36211745
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	TrackOne Request	01_Request_For_Prioritized_Ex am_CON-5.pdf	124633	no	1
			ac1f7d2eeba08ef42e3f16995c0d83d8522c8419		
Warnings:					
Information:					
2	Application Data Sheet	02_ADS_CON-5.pdf	1256671	no	9
			31a0b67ccc76f72ebda7fe792383ace760d697ca		
Warnings:					
Information:					
3	Oath or Declaration filed	03_Executed_Declaration.pdf	1961148	no	2
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Warnings:					
Information:					
4		04_AMEND_PRELIM_01_CON-5 .pdf	93012	yes	6
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	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Preliminary Amendment		1	1	
	Specification		2	2	
	Claims		3	5	
	Applicant Arguments/Remarks Made in an Amendment		6	6	
Warnings:					
Information:					



5		05_Specification_FINAL.pdf	126755	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	06_Figures_FINAL.pdf	122654	no	2
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Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	41502	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			3726375		
<p>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.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b> 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.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b> 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.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b> 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.</p>					

**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 <b>/Jason H. Vick/</b>	Date <b>April 21, 2021</b>
Name (Print/Typed) <b>Jason H. Vick</b>	Practitioner Registration Number <b>45,285</b>

**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 1 forms are submitted.

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.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	8523WANG-1-CON-5
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		
<p>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.</p> <p>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.</p>			

**Secrecy Order 37 CFR 5.2:**

<input type="checkbox"/>	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				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Calvin	Shiening	WANG		
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
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**Mailing Address of Inventor:**

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Postal Code	91746	Country i	US		

Inventor	2				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Chung-Hsin		WANG		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Shenzhen	Country of Residence i	CN		

**Mailing Address of Inventor:**

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City	Shenzhen	State/Province			
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:**

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	8523WANG-1-CON-5
		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-docket@sheridanross.com	Add Email	Remove Email

### Application Information:

Title of the Invention	AUTOMOBILE CHARGER		
Attorney Docket Number	8523WANG-1-CON-5	Small Entity Status Claimed	<input type="checkbox"/>
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:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	22442		

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	8523WANG-1-CON-5
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

## 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	17/131113	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)
17/131113	Continuation of	16/404321	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)
16/404321	Continuation of	15/923219	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)
15/923219	Continuation of	15/355409	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)
15/355409	Continuation of	14/569352	2014-12-12	9525297	2016-12-20
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the <b>Add</b> button.					
Add					

## 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)<sup>1</sup> 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).

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	8523WANG-1-CON-5
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

			<input type="button" value="Remove"/>
Application Number	Country <sup>i</sup>	Filing Date (YYYY-MM-DD)	Access Code <sup>j</sup> (if applicable)
201420212173.5	CN	2014-04-28	
Additional Foreign Priority Data may be generated within this form by selecting the <b>Add</b> button.			<input type="button" value="Add"/>

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

<input type="checkbox"/> 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.
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<b>Application Data Sheet 37 CFR 1.76</b>	Attorney Docket Number	8523WANG-1-CON-5
	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.

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	8523WANG-1-CON-5
		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.

<b>Applicant</b>	1	<a href="#">Remove</a>
<p>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.</p> <p style="text-align: right;"><a href="#">Clear</a></p>		
<input checked="" type="radio"/> 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:		
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
Name of the Deceased or Legally Incapacitated Inventor: <div style="border: 1px solid black; width: 450px; height: 20px;"></div>		
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>		
Organization Name	PILOT INC.	
<b>Mailing Address Information For Applicant:</b>		
Address 1	13000 Temple Boulevard	
Address 2		
City	City of Industry	State/Province
		CA
Country	US	Postal Code
		91746
Phone Number		Fax Number
Email Address		
Additional Applicant Data may be generated within this form by selecting the Add button. <a href="#">Add</a>		

## 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.



<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	8523WANG-1-CON-5
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

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

**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.

<b>Signature</b>	/Jason H. Vick/		Date (YYYY-MM-DD)	2021-04-21
First Name	Jason H.	Last Name	Vick	Registration Number
				45285
Additional Signature may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>

<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	8523WANG-1-CON-5
		Application Number	
Title of Invention	AUTOMOBILE CHARGER		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

## Privacy Act Statement

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

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

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

**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 14/569,352

filed 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 INVENTOR**

Inventor: Calvin Shiening Wang

Date (Optional):

9/18/15

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 1460, Alexandria, VA 22313-1460.

If you need assistance in completing the form, call 1-800-PTO-2198 and select option 2.

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

<b>Title of Invention</b>	<b>AUTOMOBILE CHARGER</b>	
	Attorney Docket No. 8523WANG-1	
As the below named inventor, I hereby declare that:		
This declaration is directed to:	<input type="checkbox"/> The attached application, or	
	<input checked="" type="checkbox"/> 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.		
<b>WARNING:</b>		
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.		
<b>LEGAL NAME OF INVENTOR</b>		
Inventor:	<u>Chung-Hsin Wang</u>	Date (Optional): <u>2014/5/29</u>
Signature:	<u>Chung-Hsin Wang</u>	
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-9198 and select option 2.

**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

<input type="checkbox"/> Firm or individual name		
Address		
City	State	Zip
Country		
Telephone		Email

Assignee name and address: Pilot, Inc.  
13000 Temple Avenue  
City of Industry, CA 91748

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 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

<b>EFS ID:</b>	42511432
<b>Application Number:</b>	17236260
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	2096
<b>Title of Invention:</b>	AUTOMOBILE CHARGER
<b>First Named Inventor/Applicant Name:</b>	Calvin Shiening WANG
<b>Customer Number:</b>	22442
<b>Filer:</b>	Jason Vick/Joanne Vos
<b>Filer Authorized By:</b>	Jason Vick
<b>Attorney Docket Number:</b>	8523WANG-1-CON-5
<b>Receipt Date:</b>	21-APR-2021
<b>Filing Date:</b>	
<b>Time Stamp:</b>	13:42:18
<b>Application Type:</b>	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		Statement_Under_373c_w_PO A.pdf	297194	yes	3
			917916184ae8455e9713a85707fb0758182 a58b0		

	<b>Multipart Description/PDF files in .zip description</b>		
	<b>Document Description</b>	<b>Start</b>	<b>End</b>
	Assignee showing of ownership per 37 CFR 3.73	1	2
	Power of Attorney	3	3
<b>Warnings:</b>			
<b>Information:</b>			
<b>Total Files Size (in bytes):</b>		297194	
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>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.</b></p>			



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

**STATEMENT UNDER 37 CFR 3.73(c)**Applicant/Patent Owner: Pilot Inc.Application No./Patent No.: 17/236,260Filed/Issue Date: April 21, 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/

April 21, 2021

Signature

Date

Jason H. Vick

45,285

Printed or Typed Name

Title or Registration Number