

		US-20190308518-A1 OR AU-2019201559-B2 OR US-20180111491-A1 OR US-20160001666-A1 OR US-11462928-B2 OR AU-2021202399-A1 OR AU-2022200746-A1 OR AU-2020201222-A1 OR AU-2020201223-A1 OR AU-2019201559-A1).did.	JPO; DERWENT; IBM_TDB)				
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PE2E SEARCH - Search History (Similarity Search)

Ref #	Application Number	Text Selections	CPC Selections
L421	16/820,040	No selections	No selections
L422	16/820,040	(Claims) A jump starting device for boosting or charging a depleted or discharged battery having a positive battery terminal and a negative battery terminal, the jump starting device comprising: a power supply; a positive battery connector for electrically connecting the jump starting starter device to the positive battery terminal of the depleted or discharged battery; a negative battery connector for electrically connecting the jump starting starter device to the negative battery terminal of the depleted or discharged battery; a power switch or switch circuit connected in circuit with the power supply and the positive and negative battery connectors, the power switch or switch circuit configured to switch power on from the power supply to boost or charge the depleted or discharged battery when connected between the positive and negative battery connectors; a USB input connector; and a USB charge circuit electrically connecting the USB input connector to the power supply, the USB charge circuit comprising a DC-DC converter configured to upconvert voltage from the USB input connector to the power supply.	(H02J7/0047) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries with monitoring or indicating devices or circuits (B60L53/14) Conductive energy transfer (H02J7/342) The other DC source being a battery actively interacting with the first one, i.e. battery to battery charging (H02J1/122) Provisions for temporary connection of DC sources of essentially the same voltage, e.g. jumpstart cables (H02J7/00) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries (H02J7/0029) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries with safety or protection devices or circuits (H02J7/0034) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries with safety or protection devices or circuits using reverse polarity correcting or protecting circuits (Y02E60/10) Energy storage using batteries (Y02T10/70) Energy storage systems for electromobility, e.g. batteries (Y02T10/7072) Electromobility specific charging systems or methods for batteries, ultracapacitors, supercapacitors or double-layer capacitors

			(Y02T90/14) Plug-in electric vehicles
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Search Notes 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

CPC - Searched*		
Symbol	Date	Examiner
B60L53/14 H02J7/342 H02J7/0047 H02J7/0034 H02J7/0029 H02J1/122 H02J7/00 H02J7/0048 H02J7/00302 H02J7/00309 H02J7/00306 Y02T90/14 Y02T10/7072 Y02T10/70 H02J2310/46	08/31/2021	MD

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
320	105	08/31/2021	MD

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

/M BAYE DIAO/ Primary Examiner, Art Unit 2859	
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<i>Search Notes</i> 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

Search Notes		
Search Notes	Date	Examiner
SEARCH(SEARCH Notes Attached)	08/31/2021	MD
Inventor Name and Assignee Search (SEARCH).	08/31/2021	MD
Parent Applications Noted.	08/31/2021	MD
IPR2018-00503 Reviewed Petition for Inter Partes Review of U.S. Patent No. 9,007,015.	08/31/2021	MD
IPR2020-00944 Reviewed Petition for Inter Partes Review of U.S. Patent No. 9,007,015.	08/31/2021	MD
IPR2020-01387 Reviewed Petition for Inter Partes Review of U.S. Patent No. 9,007,015.	08/31/2021	MD
IPR2021-00309 Reviewed Petition for Inter Partes Review of U.S. Patent No. 9,007,015.	08/31/2021	MD
(307/150 Text Search Only – see attached Search Printout).	08/31/2021	MD
IP.com PAT and NPL Search Conducted.	08/31/2021	MD
Updated Search Above.	03/10/2022	MD
Dialog ProQuest Search Conducted.	03/10/2022	MD
Updated Search Above.	08/04/2022	MD
Updated Search Above.	11/10/2022	MD
MLTD and Similarity Searches performed.	11/10/2022	MD

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

/M BAYE DIAO/ Primary Examiner, Art Unit 2859	
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<i>Notice of References Cited</i>	Application/Control No. 16/820,040		Applicant(s)/Patent Under Reexamination NOOK et al.	
	Examiner M'BAYE DIAO		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-7479763-B2	01-2009	Bertness; Kevin I.	H02J7/342	320/132
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

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

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

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/820,040	03/16/2020	Jonathan Lewis NOOK	054985-000055-US-02-02	1056
20583	7590	11/16/2022	EXAMINER	
Jones Day			DIAO, M BAYE	
250 Vesey Street			ART UNIT	
New York, NY 10281-1047			PAPER NUMBER	
			2859	
			NOTIFICATION DATE	
			DELIVERY MODE	
			11/16/2022	
			ELECTRONIC	

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

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

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

japarker@jonesday.com
ncgeorge@jonesday.com
wtokmakidis@jonesday.com

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Response to Amendment

2. Acknowledgement is made of amendment filed on 11/01/2022 in which claims 24,29,41,44, and 80 are currently amended while claims 1-23 had been previously canceled. By this amendment, **claims 24-80 are still pending in the application.**

Information Disclosure Statement

3. The information disclosure statement (IDS) filed on 11/01/2022 has been considered and placed of record. An initialed copy is attached herewith.

Specification

Claim Objections

4. Claims 75-76 are objected to because of the following informalities: In claims 75 and 76, the limitations of, “The device according to claim 7 4,...” should and would read for examination purpose -- The device according to claim 74,...--. Appropriate correction is required.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims 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); *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 nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) 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. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

6. Claims 24-80 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-54 of U.S. Patent No. 11,447,023. Although the claims at issue are

not identical, they are not patentably distinct from each other because both the claims in the instant application and those of the '023 patent are directed to the same inventive concept. Furthermore, claims 1-54 of the '023 patent are narrower in scope and claims 24-80 of the instant application are broader in scope and are clearly anticipated by **claims 1-54 of the '023 patent.**

Allowable Subject Matter

7. Claims 24-80 would be allowable subjected to a timely filed and approved terminal disclaimer over claims 1-54 of **USPAT 11,447,023.**

Response to Arguments

8. Applicant's arguments, see Remarks, filed 11/01/2022, with respect to claims 24-80 have been fully considered and are persuasive. The previous rejections of claims 24-80 has been withdrawn.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M'BAYE DIAO whose telephone number is (571)272-6127. The examiner can normally be reached M-F; 9:00AM-6:30PM.

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

M'BAYE DIAO
Primary Examiner
Art Unit 2859

/M BAYE DIAO/
Primary Examiner, Art Unit 2859
November 10, 2022

<i>Index of Claims</i> 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	08/31/2021	03/10/2022	08/04/2022	11/10/2022					
	1	-	-	-	-					
	2	-	-	-	-					
	3	-	-	-	-					
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	39	✓	✓	✓	✓					
	40	✓	✓	✓	✓					
	41	✓	✓	✓	✓					
	42	✓	✓	✓	✓					

<i>Index of Claims</i> 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

CLAIM		DATE									
Final	Original	08/31/2021	03/10/2022	08/04/2022	11/10/2022						
	43	✓	✓	✓	✓						
	44	✓	✓	✓	✓						
	45	✓	✓	✓	✓						
	46	✓	✓	✓	✓						
	47	✓	✓	✓	✓						
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	76			✓	✓						
	77			✓	✓						
	78			✓	✓						
	79			✓	✓						
	80			✓	✓						

LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. 14710-137-999 (000055-US-02-02)	APPLICATION NO. 16/820,040
	FIRST NAMED INVENTOR Jonathan Lewis NOOK	
	FILING DATE March 16, 2020	ART UNIT 2859

U.S. PATENT DOCUMENTS					
*Examiner Initials		Document Number	Date yyyy-mm-dd	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/M.D./	A01	7893558	2011-02-22	Lee	
	A02	10087904	2018-10-02	Butler et al.	
	A03	2015/0306967	2015-10-29	Cohen	

FOREIGN PATENT DOCUMENTS							
*Examiner Initials		Foreign Patent Document Country Code, Number, Kind Code (if known)	Date yyyy-mm-dd	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T	Additional Information
	B01	WO 2009/059852 A2	2009-05-14	Bosch GmbH			Machine translation
	B02	WO 2012/068635 A1	2012-05-31	Clipsal Australia Pty Ltd.			

NON PATENT LITERATURE DOCUMENTS				
*Examiner Initials		Include name of the author (in CAPITAL LETTERS), (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T	Additional Information
	C01	USB Battery Charging 1.2 Compliance Plan, Rev. 1.0		
	C02	Carku Epower-20B catalog information		
	C03	USB Battery Charging Specification Version 1.2 (EX1009)		

EXAMINER /M BAYE DIAO/	DATE CONSIDERED 11/10/2022
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

NAI-1534128438v1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.D/

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**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING
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Docket Number (Optional)

014710-0137-999

In re Application of: The Noco Company

Application No.: 16/820,040

Filed: March 16, 2020

For: PORTABLE VEHICLE BATTERY JUMP START APPARATUS WITH SAFETY PROTECTION

The applicant, The Noco Company, owner of 100 percent interest 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** No. 11,447,023 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

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

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 47919

/Joseph M. Sauer/

Signature

06 December 2022

Date

Joseph M. Sauer

Typed or printed name

Attorney of Record

Title

216-586-7506

Telephone Number



Terminal disclaimer fee under 37 CFR 1.20(d) included.

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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:

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

Electronic Acknowledgement Receipt	
EFS ID:	47152539
Application Number:	16820040
International Application Number:	
Confirmation Number:	1056
Title of Invention:	PORTABLE VEHICLE BATTERY JUMP START APPARATUS WITH SAFETY PROTECTION
First Named Inventor/Applicant Name:	Jonathan Lewis NOOK
Customer Number:	20583
Filer:	Joseph McGowan Sauer/Erin Rosenfelder
Filer Authorized By:	Joseph McGowan Sauer
Attorney Docket Number:	054985-000055-US-02-02
Receipt Date:	06-DEC-2022
Filing Date:	16-MAR-2020
Time Stamp:	14:14:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 170
RAM confirmation Number	E2022B6E15164578
Deposit Account	503013
Authorized User	Erin Rosenfelder
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	Terminal Disclaimer Filed	14710-137-999_TD_aia0026.pdf	161580	no	2
			b3fa9a1af47bc80f3c95c56f64203e4232137996		
Warnings:					
Information:					
2		14710-137-999_Response111622.pdf	195445	yes	11
			0e7507fa638dafebc31a3196b607da52c928087d		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Response After Final Action		1	1	
	Claims		2	10	
	Applicant Arguments/Remarks Made in an Amendment		11	11	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	38244	no	2
			31a5c6927e52c8da6668a986cc4a2aede60f08bb		
Warnings:					
Information:					
Total Files Size (in bytes):			395269		

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.

LISTING OF THE CLAIMS:

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

1-23. (Cancelled)

24. (Previously Presented) A jump starting device for boosting or charging a depleted or discharged battery having a positive battery terminal and a negative battery terminal, the jump starting device comprising:

a power supply;

a positive battery connector for electrically connecting the jump starting device to the positive battery terminal of the depleted or discharged battery;

a negative battery connector for electrically connecting the jump starting device to the negative battery terminal of the depleted or discharged battery;

a power switch or switch circuit connected in circuit with the power supply and the positive and negative battery connectors, the power switch or switch circuit configured to switch power on from the power supply to boost or charge the depleted or discharged battery when connected between the positive and negative battery connectors;

a USB input connector; and

a USB charge circuit electrically connecting the USB input connector to the power supply, the USB charge circuit comprising a DC-DC converter configured to upconvert voltage from the USB input connector to the power supply.

25. (Previously Presented) The device according to claim 24, wherein the power switch or switch circuit is controlled to turn on power to the depleted or discharged battery only when the jump starting device is connected with correct polarity to the depleted or discharged battery.

26. (Previously Presented) The device according to claim 24, wherein the power supply is an internal power supply.

27. (Previously Presented) The device according to claim 24, wherein the USB charging circuit and power supply are located within the jump starting device.

28. (Previously Presented) The device according to claim 27, wherein the DC-DC converter is one or more DC-DC converters.

29. (Previously Presented) The device according to claim 24, wherein the DC-DC converter is configured to convert about 5VDC from the USB input connector to at least 11.1 VDC for the power supply when an active USB power source is connected to the USB input connector.

30. (Previously Presented) The device according to claim 29, wherein the USB charger power source is a USB charger, and the USB charging circuit is configured to convert power from the USB charger to charge voltage and current for supplying power or charging the power supply.

31. (Previously presented) The device according to claim 24, wherein the DC-DC converter is configured to be turned on and off via a circuit by an output from a microcontroller.

32. (Previously Presented) The device according to claim 31, wherein the power supply is a rechargeable battery, and wherein the microcontroller software can turn charge off if the rechargeable battery voltage is measured to be too high by an A/D input.

33. (Previously Presented) The device according to claim 32, wherein the rechargeable battery is a rechargeable lithium battery, and further comprising a rechargeable lithium battery charge controller configured to provide charge balance to internal lithium battery cells of the rechargeable lithium battery.

34. (Previously Presented) The device according to claim 33, wherein the rechargeable lithium battery charge controller is also configured to provide safety redundancy for eliminating over discharge of the rechargeable lithium battery.

35. (Previously Presented) The device according to claim 24, wherein the USB input connector is a micro-USB connector.

36. (Previously Presented) The device according to claim 24, further comprising a USB output connector for providing a power output from the power supply to a USB-chargeable device.
37. (Previously Presented) The device according to claim 36, wherein the USB output connector is electrically connected to a USB output circuit, the USB output circuit connecting the power supply to the USB output connector.
38. (Previously Presented) The device according to claim 36, wherein the USB output connector at least partially defines a USB output port.
39. (Previously Presented) The device according to claim 37, wherein the USB output connector and the USB output circuit define a USB output port.
40. (Previously Presented) The device according to claim 39, wherein the USB output port is configured to provide a portable charger for charging smartphones, tablets, music players, and other rechargeable electronic devices.
41. (Previously Presented) The device according to claim 37, further comprising a microcontroller with a control circuit, the control circuit for the microcontroller allows the USB output circuit to be turned on and off by software control to prevent the power supply getting too low in capacity.
42. (Previously Presented) The device according to claim 39, wherein the USB output port is accessible from outside of the jump charge device using the USB output connector.
43. (Previously Presented) The device according to claim 42, wherein the USB connector includes a voltage divider configured to enable charge to certain smartphones that require the voltage divider.
44. (Previously Presented) The device according to claim 24, wherein the power supply is a rechargeable battery disposed within the jump starting device.

45. (Previously Presented) The device according to claim 24, wherein the power switch or switch circuit comprises at least one power switch or switch circuit configured to turn power on from the power supply to the depleted or discharged battery when connected to the positive and negative battery connectors.

46. (Previously Presented) The device according to claim 45, wherein the power switch or switch circuit comprises one or more sensors configured to detect whether the positive and negative battery connectors are properly connected to the depleted or discharged battery prior to switching on the power switch or switch circuit.

47. (Previously Presented) The device according to claim 46, wherein the power switch or switch circuit is configured to detect presence of the depleted or discharged battery when connected between the positive and negative battery connectors.

48. (Previously Presented) The device according to claim 46, wherein the power switch or switch circuit is configured to detect polarity of the depleted or discharged battery when connected between the positive and negative battery connectors.

49. (Previously Presented) The device according to claim 46, wherein the power switch or switch circuit is configured to detect presence of the depleted or discharged battery when connected between the positive and negative battery connectors, and configured to detect polarity of the depleted or discharged battery when connected between the positive and negative battery connectors,

wherein the power switch or switch circuit switches on the power supply to connect the power supply to the depleted or discharged battery only when the depleted or discharged battery is present when connected between the positive and negative battery connectors and the depleted or discharged battery is connected with correct polarity between the positive and negative battery terminals.

50. (Previously presented) The device according to claim 45, wherein the power switch or switch circuit comprises a microcontroller configured for providing an output controlling the power switch or switch circuit.

51. (Previously presented) The device according to claim 50, wherein the microcontroller receives input from one or more sensors configured to detect presence of the depleted or discharged battery when connected between the positive and negative battery connectors, and to detect polarity of the depleted or discharged battery when connected between the positive and negative battery connectors.

52. (Previously presented) The device according to claim 51, wherein the one or more sensors includes one sensor configured to detect presence of the depleted or discharged battery when connected between the positive and negative battery connectors, and another sensor configured to detect polarity of the depleted or discharged battery when connected between the positive and negative battery connectors.

53. (Previously presented) The device according to claim 52, wherein the one or more sensors is one or more sensing circuits.

54. (Previously Presented) The device according to claim 50, wherein the microcontroller switches the power switch or switch circuit on to provide power from the power supply to the depleted or discharged battery only when the depleted or discharged battery is determined by the microcontroller to be present and connected with correct polarity to the positive and negative battery connectors.

55. (Previously presented) The device according to claim 50, wherein the microcontroller is a programmable microcontroller configured to allow updates in functionality and system parameters.

56. (Previously presented) The device according to claim 55, wherein the programmable microcontroller comprises a memory.

57. (Previously presented) The device according to claim 24, wherein the positive battery connector comprises a positive battery cable, and the negative battery connector comprises a negative battery cable.
58. (Previously presented) The device according to claim 57, wherein the positive battery cable comprises a positive battery clamp and the negative battery cable comprises a negative battery clamp.
59. (Previously Presented) The device according to claim 24, wherein said power switch or switch circuit comprises a plurality of FETs in parallel.
60. (Previously Presented) The device according to claim 51, wherein the one or more sensors is a presence sensor configured for detecting presence of the depleted or discharged battery when connected between the positive and negative battery connectors, and a reverse polarity sensor configured to detect polarity of a connection of the positive and negative battery connectors of the jump starting device with the depleted or discharge battery.
61. (Previously Presented) The device according to claim 60, wherein the presence sensor and the reverse polarity sensor comprise optically coupled isolator phototransistors.
62. (Previously presented) The device according to claim 24, further comprising a plurality of power diodes coupled between the positive and negative battery connectors and the power supply to prevent back-charging of the power supply from an electrical system connected to the depleted or discharged battery.
63. (Previously presented) The device according to claim 24, further comprising an output port providing positive and negative polarity outputs to the positive and negative battery connectors.
64. (Previously presented) The device according to claim 50, further comprising a temperature sensor configured to detect temperature of the power supply and to provide a temperature signal to the microcontroller.

65. (Previously presented) The device according to claim 50, further comprising a voltage measurement circuit configured to measure output voltage of the power supply and to provide a voltage measurement signal to the microcontroller.

66. (Previously presented) The device according to claim 24, further comprising a voltage regulator configured to convert output voltage of the power supply to a voltage level appropriate to provide operating power to internal components of the device.

67. (Previously presented) The device according to claim 60, further comprising a manual override switch configured to activate a manual override mode to enable a user to connect jump start power to the positive and negative battery connectors when the one sensor configured for detecting presence of the depleted or discharged battery is unable to detect presence of the depleted or discharged battery.

68. (Previously presented) The device according to claim 67, wherein the microcontroller is configured to detect actuation of the manual override switch for at least a predetermined period of time before activation of the manual override mode.

69. (Previously Presented) The device according to claim 24, wherein the positive and negative battery connectors are defined by a jumper cable device including a plug configured to plug into an output port of the jump starting device, a pair of cables integrated with the plug at one respective end of the pair of cables and being configured to be connected to positive and negative battery terminals of the depleted or discharged battery at an opposite end of the pair of cables.

70. (Previously presented) The device according to claim 69, wherein the output port and the plug are dimensioned so that the plug will fit into the output port only in one specific orientation.

71. (Previously Presented) The device according to claim 24, wherein the power switch or switch circuit is configured to switch power on only when the jump starting device is properly connected to the depleted or discharged battery.

72. (Previously Presented) The device according to claim 29, wherein the USB charging source is a USB charger.

73. (Previously Presented) The device according to claim 72, wherein the USB charger is a standard USB charger.

74. (Previously Presented) The device according to claim 24, wherein the power supply is a rechargeable lithium battery pack.

75. (Currently Amended) The device according to claim [[7 4]] 74, wherein the rechargeable lithium battery pack is an internal power supply.

76. (Currently Amended) The device according to claim [[7 4]] 74, wherein the USB charge circuit is configured to convert power from a USB charger power source, to charge voltage and current suitable for charging the rechargeable lithium battery pack.

77. (Previously Presented) The device according to claim 74, further comprising a rechargeable lithium battery pack voltage measurement circuit configured to monitor the rechargeable lithium battery pack to prevent voltage potential from rising too high during a charging operation and from dropping too low during a discharge operation.

78. (Previously Presented) The device according to claim 74, further comprising a fuel gauge LEDS for indicating a charge level of the rechargeable lithium battery pack.

79. (Previously Presented) The device according to claim 24, wherein the power switch or switch circuit is a smart switch, or comprises a smart switch.

80. (Previously Presented) A jump starting device for boosting or charging a depleted or discharged battery having a positive battery terminal and a negative battery terminal, the jump starting device comprising:
a power supply;

a positive battery connector for electrically connecting the jump starting ~~starter~~ device to the positive battery terminal of the depleted or discharged battery;

a negative battery connector for electrically connecting the jump starting ~~starter~~ device to the negative battery terminal of the depleted or discharged battery;

a power switch or switch circuit in circuit with the power supply and the positive and negative battery connectors, the power switch or switch circuit configured to switch power on from the power supply to boost or charge the depleted or discharged battery when connected between the positive and negative battery connectors;

a USB input connector;

a USB charge circuit electrically connecting the USB input connector to the power supply, the USB charge circuit configured to up-convert voltage from a USB charger power source connected to the USB input connector to the power supply using a DC-DC converter;

a USB output connector; and

a USB output circuit electrically connecting the power supply to the USB output connector.

Electronic Patent Application Fee Transmittal					
Application Number:		16820040			
Filing Date:		16-Mar-2020			
Title of Invention:		PORTABLE VEHICLE BATTERY JUMP START APPARATUS WITH SAFETY PROTECTION			
First Named Inventor/Applicant Name:		Jonathan Lewis NOOK			
Filer:		Joseph McGowan Sauer/Erin Rosenfelder			
Attorney Docket Number:		054985-000055-US-02-02			
Filed as Small Entity					
Filing Fees for Utility under 35 USC 111(a)					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	170	170
Total in USD (\$)				170

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR: Jonathan Lewis Nook

CONFIRMATION NO.: 1056

APPLICATION NO.: 16/820,040

GROUP ART UNIT: 2859

FILING DATE: March 16, 2020

EXAMINER: Diao, M Baye

TITLE:
PORTABLE VEHICLE BATTERY JUMP
START APPARATUS WITH SAFETY
PROTECTION

DOCKET NO.: 014710-0137-999

AMENDMENT IN REPLY TO
OFFICE ACTION OF NOVEMBER 16, 2022

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

Dear Sirs:

This is in response to the Office Action issued November 16, 2022.

Reconsideration and allowance of Applicant's claim is requested in view of the amendments and remarks provided herein.

Amendments to the claims are provided on the listing of the claims which begins on page **2**.

Remarks begin on page **11** of this paper.

REMARKS

This responds to the Office Action issued on November 16, 2022. Claims 75 and 76 are amended to correct a clerical error. Reconsideration is respectfully requested in view of these amendments and the following remarks.

Claim Objections

The Office Action objects to claim 75 and 76 because of a typographical error. Claims 75 and 76 are amended accordingly.

Double Patenting

The Office Action rejects claims 24-80 for nonstatutory double patenting over claims of U.S. Patent No. 11,447,023. A Terminal Disclaimer is filed herewith overcoming these rejections.

Conclusion

Applicant respectfully submits that a full and complete response has been made to the outstanding Office Action, and, as such, there being no other objections or rejections, this application is in condition for allowance and a notice of the same is earnestly solicited.

In the event this paper is not being timely filed, the Applicant respectfully petitions for an appropriate extension of time. Any fees for such an extension together with any additional fees associated with the processing of this Response and any other documents filed concurrently with this Response may be charged to Counsel's Deposit Account 50-5013, under 37 CFR 1.16 and 1.17.

If the Office has any questions, or believes for any reason that personal communication will expedite prosecution of this application, the Office is hereby invited to telephone the undersigned at the number provided below.

Respectfully submitted,

Date: December 6, 2022

/Joseph M. Sauer/
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(216) 586-7506

Application Number * 16/820,040 *	Application/Control No. 16/820,040	Applicant(s)/Patent under Reexamination NOOK et al.	
	Examiner DIAO, M BAYE	Art Unit 2859	
Document Code - DISQ		Internal Document - DO NOT MAIL	

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed: <u>06 December 2022</u>	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
 /PAMELA A YOUNG/ Technology Center: <u>OPLC</u> Telephone: <u>(571)272-3622</u> _____

Issue Classification 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

CPC						
Symbol					Type	Version
B60L	/	53	/	14	F	2019-02-01
H02J	/	7	/	0034	I	2013-01-01
H02J	/	7	/	0029	I	2013-01-01
H02J	/	7	/	0047	I	2013-01-01
H02J	/	7	/	342	I	2020-01-01
H02J	/	1	/	122	I	2020-01-01
H02J	/	7	/	00	A	2013-01-01
H02J	/	7	/	0048	A	2020-01-01
H02J	/	7	/	00302	A	2020-01-01
H02J	/	7	/	00306	A	2020-01-01
H02J	/	7	/	00309	A	2020-01-01
H02J	/	2310	/	46	A	2020-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/				

NONE (Assistant Examiner)		Total Claims Allowed: 57	
/M BAYE DIAO/ Primary Examiner, Art Unit 2859 (Priamry Examiner)		12 December 2022 (Date)	O.G. Print Claim(s) 1
			O.G. Print Figure 3

Issue Classification 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B60L53/14	/	53	/	14
H02J7/00	/	7	/	00
H02J7/34	/	7	/	34
H02J1/10	/	1	/	10
NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
320	105

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	57	
/M BAYE DIAO/ Primary Examiner, Art Unit 2859	12 December 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3

Issue Classification 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		11		21	10	31	18	41	30	51	34	61	50	71
	2		12		22	11	32	21	42	31	52	45	62	8	72
	3		13		23	12	33	22	43	32	53	46	63	9	73
	4		14	1	24	13	34	23	44	37	54	40	64	51	74
	5		15	2	25	14	35	24	45	38	55	41	65	52	75
	6		16	3	26	15	36	25	46	39	56	47	66	53	76
	7		17	4	27	17	37	26	47	42	57	35	67	54	77
	8		18	5	28	16	38	27	48	43	58	36	68	55	78
	9		19	6	29	19	39	28	49	44	59	48	69	56	79
	10		20	7	30	20	40	29	50	33	60	49	70	57	80

NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	57
/M BAYE DIAO/ Primary Examiner, Art Unit 2859	12 December 2022	O.G. Print Claim(s)
(Primary Examiner)	(Date)	1
		O.G. Print Figure
		3

<i>Notice of References Cited</i>	Application/Control No. 16/820,040		Applicant(s)/Patent Under Reexamination NOOK et al.	
	Examiner M'BAYE DIAO		Art Unit 2859	Page 1 of 3

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	O				
	P				
	Q				
	R				
	S				
	T				

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

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

<i>Notice of References Cited</i>	Application/Control No. 16/820,040		Applicant(s)/Patent Under Reexamination NOOK et al.	
	Examiner M'BAYE DIAO		Art Unit 2859	Page 2 of 3

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

NON-PATENT DOCUMENTS

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

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

<i>Notice of References Cited</i>	Application/Control No. 16/820,040		Applicant(s)/Patent Under Reexamination NOOK et al.	
	Examiner M'BAYE DIAO		Art Unit 2859	Page 3 of 3

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*	L	US-20150015184-A1	01-2015	SU; Ching-Fang	H02J7/00304	320/107
	M					

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

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:42 PM
L2	24862	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:43 PM
L3	166340	output adj port	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:43 PM
L4	0	vehicle adj batter\$3 adj isolat\$3 adj sens\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:44 PM
L5	1674253	(isolat\$3 (batter\$3 adj presence) adj sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:47 PM
L6	6642	(isolat\$3 (batter\$3 adj presence)) adj sens\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:48 PM
L7	0	reverse adj popularity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:49 PM
L8	186	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:49 PM
L9	0	(microcontroller microcomputer microprocessor processor controller) and L1 and L2 and L3 and L6 and L8	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L10	2960317	(microcontroller microcomputer microprocessor processor controller)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L11	0	L1 and L2 and L3 and L6 and L8	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L12	0	L1 and L2 and L3 and L6	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L13	0	L1 and L2 and L3 and L8	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L14	15	L1 and L2 and L3 and L10	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L15	3	L6 and L8	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:52 PM
L16	195	320/105.ccls. and (@ad<="20140708")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:55 PM
L17	1845	320/110-112.ccls. and (@ad<="20140708")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:55 PM
L18	0	(L16 L17) and (L14 L15)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:56 PM
L19	22	("5635817" "8493021" "7872361" "20040130298" "20100301800" "5921809" "6140796" "6632	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:57 PM

		103" "7301303" "5793185" "6262492" "5635818" "8376775" "20140159509" "5111130" "5189359" "6756764" "5795182" "6212054" "8199024" "20020041174" "20130154543").PN.					
L20	0	((integrated combo) adj jumper) with ((plug connector) same (other another) adj end\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:48 PM
L21	0	((integrated combo combination assembly) adj jumper) with ((plug connector) same (other another) adj end\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:48 PM
L22	0	((integrated combo combination assembly) adj jumper) and ((plug connector) same (other another) adj end\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L23	222	((integrated combo combination assembly) adj jumper) and ((plug connector))	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L24	1674253	(isolat\$3 (batter\$3 adj presence) adj sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L25	6642	(isolat\$3 (batter\$3 adj presence)) adj sens\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L26	186	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L27	3	L24 and L25 and L26	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L28	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:50 PM
L29	24862	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:50 PM
L30	48	L28 and L29	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:50 PM
L31	0	L23 L24 L25 L26	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:50 PM
L32	0	L23 L24 L25	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:50 PM
L33	0	L23 L30	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:51 PM
L34	0	L23 L30	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:51 PM
L35	1	L26 L30	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:51 PM
L36	8	L24 L30	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:51 PM

L37	12	L27 L35 L36	EPO) (US-PGPUB; USPAT; EPO)	OR	ON	ON	03:51 PM 2014/10/23 03:52 PM
L38	195	320/105.ccls. and (@ad<="20140708")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:52 PM
L39	1845	320/110-112.ccls. and (@ad<="20140708")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:52 PM
L40	1	(L38 L39) and (L37 L30)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:52 PM
L41	8	(L36) and (L37)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:56 PM
L42	8	(L36) and (L37)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:56 PM
L43	8	(L36) and (L30)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:56 PM
L44	8	L42 L43	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:56 PM
L45	0	L23 and L30	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 04:03 PM
L46	0	L23 and L29 and L26	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 04:04 PM
L47	0	L23 and L26	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 04:04 PM
L48	1	L30 and L26	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 04:04 PM
L49	150	(US-5793185-\$ or US- 5752754-\$ or US- 4562893-\$ or US- 4793175-\$ or US- 4972135-\$ or US- 5886501-\$ or US- 5936317-\$ or US- 4521204-\$ or US- 4540376-\$ or US- 4554221-\$ or US- 4565538-\$ or US- 4573943-\$ or US- 4759728-\$ or US- 4798975-\$ or US- 4878877-\$ or US- 4889516-\$ or US- 4969834-\$ or US- 5179494-\$ or US- 5219034-\$ or US- 5281792-\$ or US- 5354215-\$ or US- 5367250-\$ or US- 5479160-\$ or US- 5515939-\$ or US- 5635804-\$ or US- 5635818-\$).did. or (US- 5687573-\$ or US- 5754031-\$ or US- 5780953-\$ or US-	(USPAT)	OR	ON	ON	2014/10/23 05:39 PM

		5796255-\$ or US- 6036574-\$ or US- 6111393-\$ or US- 6130519-\$ or US- 6232728-\$ or US- 3590357-\$ or US- 3585358-\$ or US- 3654538-\$ or US- 3648146-\$ or US- 3783846-\$ or US- 4246559-\$ or US- 4251847-\$ or US- 4272142-\$ or US- 4274690-\$ or US- 4305004-\$ or US- 4309675-\$ or US- 4321542-\$ or US- 4323830-\$ or US- 4327420-\$ or US- 4327519-\$ or US- 4346335-\$ or US- 4346893-\$ or US- 4349774-\$ or US- 4359893-\$).did. or (US- 4366430-\$ or US- 4379989-\$ or US- 4380718-\$ or US- 4383213-\$ or US- 4388618-\$ or US- 4420212-\$ or US- 4435660-\$ or US- 4449089-\$ or US- 4459536-\$ or US- 4461958-\$ or US- 4463402-\$ or US- 4479083-\$ or US- 4482830-\$ or US- 4488147-\$ or US- 4491110-\$ or US- 4497306-\$ or US- 4503378-\$ or US- 4508516-\$ or US- 4511831-\$ or US- 4511825-\$ or US- 4516648-\$ or US- 4537174-\$ or US- 4550280-\$ or US- 4575670-\$ or US- 4584513-\$ or US- 4615958-\$ or US- 4616166-\$).did. or (US- 4631455-\$ or US- 4760000-\$ or US- 4764852-\$ or US- 4769586-\$ or US- 4799135-\$ or US- 4820966-\$ or US- 4829223-\$ or US-					
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		4831321-\$ or US- 4840583-\$ or US- 4859987-\$ or US- 4868409-\$ or US- 4871957-\$ or US- 4871959-\$ or US- 4884464-\$ or US- 4885524-\$ or US- 4892204-\$ or US- 4913981-\$ or US- 4923415-\$ or US- 4924176-\$ or US- 4975089-\$ or US- 5012689-\$ or US- RE34159-\$ or US- 5241242-\$ or US- 5245258-\$ or US- H001236-\$ or US- 5253138-\$ or US- 5277285-\$).did. or (US- 5287085-\$ or US- 5306990-\$ or US- 5343128-\$ or US- 5343135-\$ or US- 5357186-\$ or US- 5430334-\$ or US- 5498933-\$ or US- 5502368-\$ or US- 5522582-\$ or US- 5546264-\$ or US- 5548462-\$ or US- 5555864-\$ or US- 5560442-\$ or US- 5565760-\$ or US- 5571999-\$ or US- 5593797-\$ or US- 5604653-\$ or US- 5626504-\$ or US- 5631544-\$ or US- 5635817-\$ or US- 5650242-\$ or US- 5652471-\$ or US- 5656922-\$ or US- 5691892-\$ or US- 5693995-\$ or US- 5701038-\$ or US- 5710471-\$).did. or (US- 5712549-\$ or US- 5712568-\$ or US- 5731669-\$ or US- 5747909-\$ or US- 5753989-\$ or US- 5767660-\$ or US- 5772468-\$ or US- 5777455-\$ or US- 5790037-\$ or US- 5795182-\$ or US- 5820407-\$ or US-					
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		5847911-\$ or US-5868076-\$ or US-5892342-\$ or US-5913911-\$ or US-5921809-\$).did.					
L50	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 05:41 PM
L51	24862	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 05:41 PM
L52	48	L50 and L51	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 05:41 PM
L53	1	L52 and L49	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 05:41 PM
L54	84	(jump adj (start\$3 cable)) with (alligator\$2 clamp\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:17 PM
L55	0	L54 with ((integrated embedded) adj plug)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:21 PM
L56	0	L54 and ((integrated embedded) adj plug)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:21 PM
L57	0	L54 and ((integrated embedded) adj (plug connect\$3 socket\$2))	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:23 PM
L58	83	L54 and (plug connect\$3 socket\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:28 PM
L59	36	L54 and (plug)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:28 PM
L60	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:29 PM
L61	24862	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:29 PM
L62	48	L60 and L61	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:29 PM
L63	0	L59 and L62	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:29 PM
L64	225	(reverse reversed) adj polarity adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:19 PM
L65	0	(vehicle automobile car locomotive motorbike motorcycle) adj battery adj (presence connection) adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:21 PM
L66	95	battery adj (presence connection) adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:21 PM
L67	2960317	(microcontroller microcomputer microprocessor	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:22 PM

L68	0	processor controller) L64 and L66 and L67	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:22 PM
L69	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:22 PM
L70	0	L64 and L66 and L69	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:22 PM
L71	0	L64 and L66	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:23 PM
L72	10	(US-20130314041-\$ or US-20120091944-\$ or US-20070285049-\$ or US-20050252573-\$ or US-20050040788- \$).did. or (US-6130519- \$ or US-8172603-\$ or US-6262559-\$ or US- 5083076-\$ or US- 4885524-\$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2014/10/24 11:49 PM
L73	22	("5635817" "8493021" "7872361" "20040130298" "20100301800" "5921809" "6140796" "6632103" "7301303" "5793185" "6262492" "5635818" "8376775" "20140159509" "5111130" "5189359" "6756764" "5795182" "6212054" "8199024" "20020041174" "20130154543").PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:50 PM
L74	0	L72 and L73	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:50 PM
L75	4	("20050110467" "6362599" "6803743" "7148580").PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/11/12 05:02 PM
L76	2	WO-2013137873-\$).did.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2014/12/03 12:05 PM
L77	134	advantages near4 (lithium-ion) adj batter\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:03 PM
L78	196	320/105.ccls. and (@ad<="20140703")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L79	0	L77 and L78	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L80	3573	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L81	25112	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L82	167713	output adj port	(US-PGPUB; USPAT;	OR	ON	ON	2014/12/03

L83	2991441	(microcontroller microcomputer microprocessor processor controller)	EPO) (US-PGPUB; USPAT; EPO)	OR	ON	ON	01:04 PM 2014/12/03 01:04 PM
L84	15	L80 and L81 and L82 and L83	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L85	0	L77 and L84	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L86	188	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L87	0	L77 and L86	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L88	224	((integrated combo combination assembly) adj jumper) and ((plug connector))	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L89	0	L77 and L88	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L90	25112	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L91	0	L77 and L90	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L92	1687265	(isolat\$3 (batter\$3 adj presence) adj sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:06 PM
L93	53	L77 and L92	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:06 PM
L94	0	L93 and L90	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:07 PM
L95	84	(jump adj (start\$3 cable)) with (alligator\$2 clamp\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:07 PM
L96	0	L93 and L95	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:07 PM
L97	150	(US-5793185-\$ or US- 5752754-\$ or US- 4562893-\$ or US- 4793175-\$ or US- 4972135-\$ or US- 5886501-\$ or US- 5936317-\$ or US- 4521204-\$ or US- 4540376-\$ or US- 4554221-\$ or US- 4565538-\$ or US- 4573943-\$ or US- 4759728-\$ or US- 4798975-\$ or US- 4878877-\$ or US- 4889516-\$ or US- 4969834-\$ or US- 5179494-\$ or US-	(USPAT)	OR	ON	ON	2014/12/03 01:08 PM

		5219034-\$ or US- 5281792-\$ or US- 5354215-\$ or US- 5367250-\$ or US- 5479160-\$ or US- 5515939-\$ or US- 5635804-\$ or US- 5635818-\$).did. or (US- 5687573-\$ or US- 5754031-\$ or US- 5780953-\$ or US- 5796255-\$ or US- 6036574-\$ or US- 6111393-\$ or US- 6130519-\$ or US- 6232728-\$ or US- 3590357-\$ or US- 3585358-\$ or US- 3654538-\$ or US- 3648146-\$ or US- 3783846-\$ or US- 4246559-\$ or US- 4251847-\$ or US- 4272142-\$ or US- 4274690-\$ or US- 4305004-\$ or US- 4309675-\$ or US- 4321542-\$ or US- 4323830-\$ or US- 4327420-\$ or US- 4327519-\$ or US- 4346335-\$ or US- 4346893-\$ or US- 4349774-\$ or US- 4359893-\$).did. or (US- 4366430-\$ or US- 4379989-\$ or US- 4380718-\$ or US- 4383213-\$ or US- 4388618-\$ or US- 4420212-\$ or US- 4435660-\$ or US- 4449089-\$ or US- 4459536-\$ or US- 4461958-\$ or US- 4463402-\$ or US- 4479083-\$ or US- 4482830-\$ or US- 4488147-\$ or US- 4491110-\$ or US- 4497306-\$ or US- 4503378-\$ or US- 4508516-\$ or US- 4511831-\$ or US- 4511825-\$ or US- 4516648-\$ or US- 4537174-\$ or US- 4550280-\$ or US-					
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		4575670-\$ or US- 4584513-\$ or US- 4615958-\$ or US- 4616166-\$).did. or (US- 4631455-\$ or US- 4760000-\$ or US- 4764852-\$ or US- 4769586-\$ or US- 4799135-\$ or US- 4820966-\$ or US- 4829223-\$ or US- 4831321-\$ or US- 4840583-\$ or US- 4859987-\$ or US- 4868409-\$ or US- 4871957-\$ or US- 4871959-\$ or US- 4884464-\$ or US- 4885524-\$ or US- 4892204-\$ or US- 4913981-\$ or US- 4923415-\$ or US- 4924176-\$ or US- 4975089-\$ or US- 5012689-\$ or US- RE34159-\$ or US- 5241242-\$ or US- 5245258-\$ or US- H001236-\$ or US- 5253138-\$ or US- 5277285-\$).did. or (US- 5287085-\$ or US- 5306990-\$ or US- 5343128-\$ or US- 5343135-\$ or US- 5357186-\$ or US- 5430334-\$ or US- 5498933-\$ or US- 5502368-\$ or US- 5522582-\$ or US- 5546264-\$ or US- 5548462-\$ or US- 5555864-\$ or US- 5560442-\$ or US- 5565760-\$ or US- 5571999-\$ or US- 5593797-\$ or US- 5604653-\$ or US- 5626504-\$ or US- 5631544-\$ or US- 5635817-\$ or US- 5650242-\$ or US- 5652471-\$ or US- 5656922-\$ or US- 5691892-\$ or US- 5693995-\$ or US- 5701038-\$ or US- 5710471-\$).did. or (US-					
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		5712549-\$ or US- 5712568-\$ or US- 5731669-\$ or US- 5747909-\$ or US- 5753989-\$ or US- 5767660-\$ or US- 5772468-\$ or US- 5777455-\$ or US- 5790037-\$ or US- 5795182-\$ or US- 5820407-\$ or US- 5847911-\$ or US- 5868076-\$ or US- 5892342-\$ or US- 5913911-\$ or US- 5921809-\$).did.					
L98	0	L93 and L97	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:08 PM
L99	1856	320/110-112.ccls. and (@ad<="20140703")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:08 PM
L100	0	L93 and L99	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:08 PM
L101	1	"20130241488"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:39 PM
L102	1	"20050110467"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 11:35 AM
L103	3824	(H02J7/0034 H02J7/0054 Y02E60/12 H02J7/0042, H02J2001/006).cpc.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:06 PM
L104	3612	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:07 PM
L105	25490	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:07 PM
L106	169705	output adj port	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:07 PM
L107	17	L104 and L105 and L106	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:07 PM
L108	4	L103 and L105 and L106	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:08 PM
L110	1	"6130519".pn.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:32 PM
L121	3824	(H02J7/0034 H02J7/0054 Y02E60/12 H02J7/0042, H02J2001/006).cpc.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L122	25490	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L123	169705	output adj port	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM

L124	4	L121 and L122 and L123	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L125	4	L124 and (@ad<="20140703")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L126	1	"9007015".PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/23 12:22 PM
L127	2	"9506446".PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/23 08:53 PM
L128	2	"20040130298"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/23 09:12 PM
L129	1	"20050110467"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 03:49 PM
L130	154	("5793185" "5752754" "4562893" "4793175" "4972135" "5886501" "5936317" "4521204" "4540376" "4554221" "4565538" "4573943" "4759728" "4798975" "4878877" "4889516" "4969834" "5179494" "5219034" "5281792" "5354215" "5367250" "5479160" "5515939" "5635804" "5635818" "5687573" "5754031" "5780953" "5796255" "6036574" "6111393" "6130519" "6232728" "3590357" "3585358" "3654538" "3648146" "3783846" "4246559" "4251847" "4272142" "4274690" "4305004" "4309675" "4321542" "4323830" "4327420" "4327519" "4346335" "4346893" "4349774" "4359893" "4366430" "4379989" "4380718" "4383213" "4388618" "4420212" "4435660" "4449089" "4459536" "4461958" "4463402" "4479083" "4482830" "4488147" "4491110" "4497306" "4503378" "4508516" "4511831" "4511825" "4516648" "4537174" "4550280" "4575670" "4584513" "4615958" "4616166" "4631455" "4760000" "4764852" "4769586" "4799135" "4820966" "4829223" "4831321"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM

		"4840583" "4859987" "4868409" "4871957" "4871959" "4884464" "4885524" "4892204" "4913981" "4923415" "4924176" "4975089" "5012689" RE34159 "5241242" "5245258" H001236 "5253138" "5277285" "5287085" "5306990" "5343128" "5343135" "5357186" "5430334" "5498933" "5502368" "5522582" "5546264" "5548462" "5555864" "5560442" "5565760" "5571999" "5593797" "5604653" "5626504" "5631544" "5635817" "5650242" "5652471" "5656922" "5691892" "5693995" "5701038" "5710471" "5712549" "5712568" "5731669" "5747909" "5753989" "5767660" "5772468" "5777455" "5790037" "5795182" "5820407" "5847911" "5868076" "5892342" "5913911" "5921809") .pn.					
L131	4480	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM
L132	35042	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM
L133	62	L131 and L132	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM
L134	1	L130 AND L133	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM
L135	73	((batter\$3 adj presence)) adj (sens\$3 detect\$4)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 07:16 PM
L136	259	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 07:16 PM
L137	0	L135 and L136	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 07:16 PM
L138	35	(positive negative) near vehicle near connect\$2	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 07:18 PM
L139	73	((batter\$3 adj presence)) adj (sens\$3 detect\$4)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:13 PM
L140	35	(positive negative) near vehicle near connect\$2	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:13 PM

L141	0	L139 and L140	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:13 PM
L142	302	((integrated combo combination assembly) adj jumper) and ((plug connector))	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:24 PM
L143	0	L139 and L142	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:24 PM
L144	37280	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:25 PM
L145	7	L139 and L144	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:25 PM
L146	4703	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:26 PM
L147	37280	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:26 PM
L148	67	L146 and L147	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:26 PM
L149	0	L145 and L148	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:26 PM
L150	130	battery adj (presence connection) adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:29 PM
L151	7	L145 and L150	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:29 PM
L152	2	"20040130298"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 11:34 PM
L153	14677	(B60L53/14 or H02J7/0047 or H02J7/0054 or H02J7/0029 or H02J7/0034 or H02J2007/0062 or H02J2007/005 or H02J2001/006).cpc.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/07/25 02:58 PM
L157	1	"9007015".PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 11:00 AM
L158	1	"9770992".PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 12:07 PM
L159	150	(US-6014016-\$ or US-6157148-\$ or US-5819695-\$ or US-6057055-\$ or US-6168470-\$ or US-6184794-\$ or US-6240637-\$ or US-4403274-\$ or US-4413234-\$ or US-4546265-\$ or US-5193212-\$ or US-5194799-\$ or US-	(USPAT)	OR	ON	ON	2019/10/07 01:22 PM

		5245304-\$ or US- 5309031-\$ or US- 5685630-\$ or US- 5778026-\$ or US- 5789099-\$ or US- 5811913-\$ or US- 5850134-\$ or US- 4270834-\$ or US- 4270827-\$ or US- 4274043-\$ or US- 4303962-\$ or US- 4305550-\$ or US- 4314193-\$ or US- 4320333-\$).did. or (US- 4354725-\$ or US- 4374347-\$ or US- 4373763-\$ or US- 4373762-\$ or US- 4377317-\$ or US- 4384240-\$ or US- 4409538-\$ or US- 4467263-\$ or US- 4470654-\$ or US- 4496204-\$ or US- 4516066-\$ or US- 4527223-\$ or US- 4552542-\$ or US- 4555656-\$ or US- 4567476-\$ or US- 4785229-\$ or US- 4794315-\$ or US- 4808495-\$ or US- 4811176-\$ or US- 4816972-\$ or US- 4924358-\$ or US- 4928094-\$ or US- 4929522-\$ or US- 4959640-\$ or US- 5192904-\$ or US- 5193198-\$ or US- 5204611-\$).did. or (US- 5206636-\$ or US- 5225760-\$ or US- 5237257-\$ or US- 5245269-\$ or US- 5260636-\$ or US- 5267800-\$ or US- 5287298-\$ or US- 5291388-\$ or US- 5304434-\$ or US- 5406272-\$ or US- 5426358-\$ or US- 5472802-\$ or US- 5506488-\$ or US- 5528901-\$ or US- 5536977-\$ or US- 5539610-\$ or US- 5587916-\$ or US-					
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		5608303-\$ or US- 5614807-\$ or US- 5643693-\$ or US- 5660946-\$ or US- 5662504-\$ or US- 5672952-\$ or US- 5682050-\$ or US- 5689209-\$ or US- 5723973-\$ or US- 5747891-\$).did. or (US- 5796181-\$ or US- 5833499-\$ or US- 5876423-\$ or US- 5886501-\$ or US- 5908714-\$ or US- 5915224-\$ or US- 5916709-\$ or US- 5929604-\$ or US- 5936317-\$ or US- 5940520-\$ or US- 5978491-\$ or US- 6046445-\$ or US- 6078214-\$ or US- 6087740-\$ or US- 6091906-\$ or US- 6131065-\$ or US- 6174618-\$ or US- 4245308-\$ or US- 4246635-\$ or US- 4246544-\$ or US- 4247813-\$ or US- 4247753-\$ or US- 4258292-\$ or US- 4259631-\$ or US- 4262278-\$ or US- 4271092-\$ or US- 4275385-\$).did. or (US- 4276236-\$ or US- 4281368-\$ or US- 4290060-\$ or US- 4292840-\$ or US- 4307437-\$ or US- 4306374-\$ or US- 4314194-\$ or US- 4316097-\$ or US- 4321523-\$ or US- 4321646-\$ or US- 4322484-\$ or US- 4323837-\$ or US- 4326161-\$ or US- 4330686-\$ or US- 4332003-\$ or US- 4335375-\$ or US- 4335481-\$ or US- 4339677-\$ or US- 4345154-\$ or US- 4355263-\$ or US- 4355422-\$ or US-					
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L160	150	4356442-\$ or US- 4360789-\$ or US- 4361730-\$ or US- 4368507-\$ or US- 4382221-\$ or US- 4392185-\$).did. or (US- 4395774-\$ or US- 4399201-\$ or US- 4401856-\$ or US- 4410835-\$ or US- 4414298-\$ or US- 4413364-\$ or US- 4415272-\$ or US- 4415843-\$ or US- 4417240-\$ or US- 4416550-\$ or US- 4424854-\$ or US- 4430396-\$ or US- 4432938-\$ or US- 4435742-\$ or US- 4435486-\$ or US- 4445358-\$).did. (US-6014016-\$ or US- 6157148-\$ or US- 5819695-\$ or US- 6057055-\$ or US- 6168470-\$ or US- 6184794-\$ or US- 6240637-\$ or US- 4403274-\$ or US- 4413234-\$ or US- 4546265-\$ or US- 5193212-\$ or US- 5194799-\$ or US- 5245304-\$ or US- 5309031-\$ or US- 5685630-\$ or US- 5778026-\$ or US- 5789099-\$ or US- 5811913-\$ or US- 5850134-\$ or US- 4270834-\$ or US- 4270827-\$ or US- 4274043-\$ or US- 4303962-\$ or US- 4305550-\$ or US- 4314193-\$ or US- 4320333-\$).did. or (US- 4354725-\$ or US- 4374347-\$ or US- 4373763-\$ or US- 4373762-\$ or US- 4377317-\$ or US- 4384240-\$ or US- 4409538-\$ or US- 4467263-\$ or US- 4470654-\$ or US- 4496204-\$ or US-	(USPAT)	OR	ON	ON	2019/10/07 01:22 PM
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		4516066-\$ or US- 4527223-\$ or US- 4552542-\$ or US- 4555656-\$ or US- 4567476-\$ or US- 4785229-\$ or US- 4794315-\$ or US- 4808495-\$ or US- 4811176-\$ or US- 4816972-\$ or US- 4924358-\$ or US- 4928094-\$ or US- 4929522-\$ or US- 4959640-\$ or US- 5192904-\$ or US- 5193198-\$ or US- 5204611-\$).did. or (US- 5206636-\$ or US- 5225760-\$ or US- 5237257-\$ or US- 5245269-\$ or US- 5260636-\$ or US- 5267800-\$ or US- 5287298-\$ or US- 5291388-\$ or US- 5304434-\$ or US- 5406272-\$ or US- 5426358-\$ or US- 5472802-\$ or US- 5506488-\$ or US- 5528901-\$ or US- 5536977-\$ or US- 5539610-\$ or US- 5587916-\$ or US- 5608303-\$ or US- 5614807-\$ or US- 5643693-\$ or US- 5660946-\$ or US- 5662504-\$ or US- 5672952-\$ or US- 5682050-\$ or US- 5689209-\$ or US- 5723973-\$ or US- 5747891-\$).did. or (US- 5796181-\$ or US- 5833499-\$ or US- 5876423-\$ or US- 5886501-\$ or US- 5908714-\$ or US- 5915224-\$ or US- 5916709-\$ or US- 5929604-\$ or US- 5936317-\$ or US- 5940520-\$ or US- 5978491-\$ or US- 6046445-\$ or US- 6078214-\$ or US- 6087740-\$ or US-					
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		6091906-\$ or US- 6131065-\$ or US- 6174618-\$ or US- 4245308-\$ or US- 4246635-\$ or US- 4246544-\$ or US- 4247813-\$ or US- 4247753-\$ or US- 4258292-\$ or US- 4259631-\$ or US- 4262278-\$ or US- 4271092-\$ or US- 4275385-\$).did. or (US- 4276236-\$ or US- 4281368-\$ or US- 4290060-\$ or US- 4292840-\$ or US- 4307437-\$ or US- 4306374-\$ or US- 4314194-\$ or US- 4316097-\$ or US- 4321523-\$ or US- 4321646-\$ or US- 4322484-\$ or US- 4323837-\$ or US- 4326161-\$ or US- 4330686-\$ or US- 4332003-\$ or US- 4335375-\$ or US- 4335481-\$ or US- 4339677-\$ or US- 4345154-\$ or US- 4355263-\$ or US- 4355422-\$ or US- 4356442-\$ or US- 4360789-\$ or US- 4361730-\$ or US- 4368507-\$ or US- 4382221-\$ or US- 4392185-\$).did. or (US- 4395774-\$ or US- 4399201-\$ or US- 4401856-\$ or US- 4410835-\$ or US- 4414298-\$ or US- 4413364-\$ or US- 4415272-\$ or US- 4415843-\$ or US- 4417240-\$ or US- 4416550-\$ or US- 4424854-\$ or US- 4430396-\$ or US- 4432938-\$ or US- 4435742-\$ or US- 4435486-\$ or US- 4445358-\$).did.					
L161	4959	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:28 PM

12/12/2022 01:28:17 PM
Workspace: 16820040

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MD

L162	39692	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:28 PM
L163	70	L161 and L162	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:28 PM
L164	13669	320/105.ccls. (H02J7/0054 or H02J7/0034 or H02J7/0029 or H02J7/0047 or H02J2001/006 or H02J2007/005 or H02J2007/0062 or H02J7/0063 or H02J1/06 or H02J2007/004 or H02J2007/0037).cpc.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:31 PM
L165	331	(reverse reversed) adj polarity adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:32 PM
L166	135	battery adj (presence connection) adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:32 PM
L167	0	L165 and L166	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:32 PM
L168	0	L163 and (L165 L166) and L160	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:34 PM
L169	10	L163 and (L165 L166) and L164	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:34 PM
L170	4639064	(microcontroller microcomputer microprocessor processor controller)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:35 PM
L171	10	L169 and L170	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:35 PM
L172	38	((("THE") near3 ("NOCO") near3 ("COMPANY"))).AS,AA NM.	(USPAT)	OR	ON	ON	2019/10/07 01:48 PM
L173	87	((("NOOK") near3 ("Jonathan")) OR (("NOOK") near3 ("William")) OR (("STANFIELD") near3 ("James")) OR (("UNDERHILL") near3 ("Derek"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/10/07 01:48 PM
L174	68	("20020041174" "20040 066168" "20040130298 " "20050040788" "2005 0110467" "2005025257 3" "20070285049" "201 00301800" "201100687 34" "20120091944" "20	(US-PGPUB; USPAT)	OR	ON	ON	2019/11/20 07:47 PM

		130154543" 20130314 041" 20140159509" 2 0150306964" 2016000 1666" 20180111491" 20180215274" 201802 69703" 20180342891" "20180345803" 20190 308518" 3933140" 40 41445" 4885524" 493 1731" 5083076" 5111 130" 5189359" 54864 34" 5635817" 563581 8" 5793185" 5795182" "5921809" 5965998" 6054779" 6130519" 6 140796" 6147471" 62 12054" 6262492" 626 2559" 6362599" 6386 907" 6426606" 66321 03" 6648701" 675676 4" 6803743" 6822425" "7301303" 7749031" 7872361" 8076900" 8 199024" 8376775" 84 93021" 9007015" 950 6446" 9770992" D625 265" D649116" D6890 20" D726109" D72611 4" D726121" D735665 " D746774").PN.					
L175	1	"10328808".pn.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:01 PM
L176	1	"9770992".pn.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:03 PM
L177	9696	(isolat\$3 (batter\$3 adj presence)) adj sens\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:25 PM
L178	279	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:25 PM
L179	11	L177 and L178	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:25 PM
L180	7	L174 and L179	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:38 PM
L182	1	"10604024".pn.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2020/07/01 07:06 PM
L183	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:42 PM
L184	24862	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:43 PM
L185	166340	output adj port	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:43 PM
L186	0	vehicle adj batter\$3 adj isolat\$3 adj sens\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:44 PM
L187	1674253	(isolat\$3 (batter\$3 adj	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23

L188	6642	presence) adj sens\$3) (isolat\$3 (batter\$3 adj presence)) adj sens\$3	EPO) (US-PGPUB; USPAT; EPO)	OR	ON	ON	12:47 PM 2014/10/23 12:48 PM
L189	0	reverse adj popularity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:49 PM
L190	186	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:49 PM
L191	0	(microcontroller microcomputer microprocessor processor controller) and L183 and L184 and L185 and L188 and L190	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L192	2960317	(microcontroller microcomputer microprocessor processor controller)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L193	0	L183 and L184 and L185 and L188 and L190	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L194	0	L183 and L184 and L185 and L188	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L195	0	L183 and L184 and L185 and L190	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L196	15	L183 and L184 and L185 and L1830	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:51 PM
L197	3	L188 and L190	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:52 PM
L198	195	320/105.ccls. and (@ad<="20140708")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:55 PM
L199	1845	320/110-112.ccls. and (@ad<="20140708")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:55 PM
L200	0	(L198 L199) and (L196 L197)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:56 PM
L201	22	("5635817" "8493021" "7872361" "20040130298" "20100301800" "5921809" "6140796" "6632103" "7301303" "5793185" "6262492" "5635818" "8376775" "20140159509" "5111130" "5189359" "6756764" "5795182" "6212054" "8199024" "20020041174" "20130154543").PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 12:57 PM
L202	0	((integrated combo) adj jumper) with ((plug connector) same (other another) adj end\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:48 PM
L203	0	((integrated combo combination assembly)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:48 PM

L204	0	adj jumper) with ((plug connector) same (other another) adj end\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L205	222	((integrated combo combination assembly) adj jumper) and ((plug connector) same (other another) adj end\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L206	1674253	(isolat\$3 (batter\$3 adj presence) adj sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L207	6642	(isolat\$3 (batter\$3 adj presence)) adj sens\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L208	186	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L209	3	L206 and L207 and L208	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:49 PM
L210	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:50 PM
L211	24862	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:50 PM
L212	48	L210 and L211	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:50 PM
L213	0	L205 L206 L207 L208	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:50 PM
L214	0	L205 L206 L207	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:50 PM
L215	0	L205 L212	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:51 PM
L216	0	L205 L212	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:51 PM
L217	1	L208 L212	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:51 PM
L218	8	L206 L212	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2014/10/23 03:51 PM
L219	12	L209 L217 L218	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:52 PM
L220	195	320/105.ccls. and (@ad<="20140708")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:52 PM
L221	1845	320/110-112.ccls. and (@ad<="20140708")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:52 PM
L222	1	(L220 L221) and (L219 L212)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:52 PM
L223	8	(L218) and (L219)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:56 PM
L224	8	(L218) and (L219)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:56 PM

L225	8	(L218) and (L212)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:56 PM
L226	8	L224 L225	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 03:56 PM
L227	0	L205 and L212	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 04:03 PM
L228	0	L205 and L211 and L208	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 04:04 PM
L229	0	L205 and L208	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 04:04 PM
L230	1	L212 and L208	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 04:04 PM
L231	150	(US-5793185-\$ or US-5752754-\$ or US-4562893-\$ or US-4793175-\$ or US-4972135-\$ or US-5886501-\$ or US-5936317-\$ or US-4521204-\$ or US-4540376-\$ or US-4554221-\$ or US-4565538-\$ or US-4573943-\$ or US-4759728-\$ or US-4798975-\$ or US-4878877-\$ or US-4889516-\$ or US-4969834-\$ or US-5179494-\$ or US-5219034-\$ or US-5281792-\$ or US-5354215-\$ or US-5367250-\$ or US-5479160-\$ or US-5515939-\$ or US-5635804-\$ or US-5635818-\$).did. or (US-5687573-\$ or US-5754031-\$ or US-5780953-\$ or US-5796255-\$ or US-6036574-\$ or US-6111393-\$ or US-6130519-\$ or US-6232728-\$ or US-3590357-\$ or US-3585358-\$ or US-3654538-\$ or US-3648146-\$ or US-3783846-\$ or US-4246559-\$ or US-4251847-\$ or US-4272142-\$ or US-4274690-\$ or US-4305004-\$ or US-	(USPAT)	OR	ON	ON	2014/10/23 05:39 PM

		4309675-\$ or US- 4321542-\$ or US- 4323830-\$ or US- 4327420-\$ or US- 4327519-\$ or US- 4346335-\$ or US- 4346893-\$ or US- 4349774-\$ or US- 4359893-\$).did. or (US- 4366430-\$ or US- 4379989-\$ or US- 4380718-\$ or US- 4383213-\$ or US- 4388618-\$ or US- 4420212-\$ or US- 4435660-\$ or US- 4449089-\$ or US- 4459536-\$ or US- 4461958-\$ or US- 4463402-\$ or US- 4479083-\$ or US- 4482830-\$ or US- 4488147-\$ or US- 4491110-\$ or US- 4497306-\$ or US- 4503378-\$ or US- 4508516-\$ or US- 4511831-\$ or US- 4511825-\$ or US- 4516648-\$ or US- 4537174-\$ or US- 4550280-\$ or US- 4575670-\$ or US- 4584513-\$ or US- 4615958-\$ or US- 4616166-\$).did. or (US- 4631455-\$ or US- 4760000-\$ or US- 4764852-\$ or US- 4769586-\$ or US- 4799135-\$ or US- 4820966-\$ or US- 4829223-\$ or US- 4831321-\$ or US- 4840583-\$ or US- 4859987-\$ or US- 4868409-\$ or US- 4871957-\$ or US- 4871959-\$ or US- 4884464-\$ or US- 4885524-\$ or US- 4892204-\$ or US- 4913981-\$ or US- 4923415-\$ or US- 4924176-\$ or US- 4975089-\$ or US- 5012689-\$ or US- RE34159-\$ or US-					
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		5241242-\$ or US- 5245258-\$ or US- H001236-\$ or US- 5253138-\$ or US- 5277285-\$).did. or (US- 5287085-\$ or US- 5306990-\$ or US- 5343128-\$ or US- 5343135-\$ or US- 5357186-\$ or US- 5430334-\$ or US- 5498933-\$ or US- 5502368-\$ or US- 5522582-\$ or US- 5546264-\$ or US- 5548462-\$ or US- 5555864-\$ or US- 5560442-\$ or US- 5565760-\$ or US- 5571999-\$ or US- 5593797-\$ or US- 5604653-\$ or US- 5626504-\$ or US- 5631544-\$ or US- 5635817-\$ or US- 5650242-\$ or US- 5652471-\$ or US- 5656922-\$ or US- 5691892-\$ or US- 5693995-\$ or US- 5701038-\$ or US- 5710471-\$).did. or (US- 5712549-\$ or US- 5712568-\$ or US- 5731669-\$ or US- 5747909-\$ or US- 5753989-\$ or US- 5767660-\$ or US- 5772468-\$ or US- 5777455-\$ or US- 5790037-\$ or US- 5795182-\$ or US- 5820407-\$ or US- 5847911-\$ or US- 5868076-\$ or US- 5892342-\$ or US- 5913911-\$ or US- 5921809-\$).did.					
L232	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 05:41 PM
L233	24862	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 05:41 PM
L234	48	L232 and L233	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 05:41 PM
L235	1	L234 and L231	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 05:41 PM

12/12/2022 01:28:17 PM
Workspace: 16820040

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MD

L236	84	(jump adj (start\$3 cable)) with (alligator\$2 clamp\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:17 PM
L237	0	L236 with ((integrated embedded) adj plug)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:21 PM
L238	0	L236 and ((integrated embedded) adj plug)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:21 PM
L239	0	L236 and ((integrated embedded) adj (plug connect\$3 socket\$2))	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:23 PM
L240	83	L236 and (plug connect\$3 socket\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:28 PM
L241	36	L236 and (plug)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:28 PM
L242	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:29 PM
L243	24862	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:29 PM
L244	48	L242 and L243	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:29 PM
L245	0	L241 and L244	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/23 11:29 PM
L246	225	(reverse reversed) adj polarity adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:19 PM
L247	0	(vehicle automobile car locomotive motorbike motorcycle) adj battery adj (presence connection) adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:21 PM
L248	95	battery adj (presence connection) adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:21 PM
L249	2960317	(microcontroller microcomputer microprocessor processor controller)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:22 PM
L250	0	L246 and L248 and L249	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:22 PM
L251	3558	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:22 PM
L252	0	L246 and L248 and L251	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:22 PM
L253	0	L246 and L248	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:23 PM
L254	10	(US-20130314041-\$ or US-20120091944-\$ or US-20070285049-\$ or US-20050252573-\$ or US-20050040788-	(US-PGPUB; USPAT)	OR	ON	ON	2014/10/24 11:49 PM

L255	22	\$.did. or (US-6130519-\$ or US-8172603-\$ or US-6262559-\$ or US-5083076-\$ or US-4885524-\$).did. ("5635817" "8493021" "7872361" "20040130298" "20100301800" "5921809" "6140796" "6632103" "7301303" "5793185" "6262492" "5635818" "8376775" "20140159509" "5111130" "5189359" "6756764" "5795182" "6212054" "8199024" "20020041174" "20130154543").PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:50 PM
L256	0	L254 and L255	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/10/24 11:50 PM
L257	4	("20050110467" "6362599" "6803743" "7148580").PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/11/12 05:02 PM
L258	2	WO-2013137873-\$.did.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2014/12/03 12:05 PM
L259	134	advantages near4 (lithium-ion) adj batter\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:03 PM
L260	196	320/105.ccls. and (@ad<="20140703")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L261	0	L259 and L260	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L262	3573	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L263	25112	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L264	167713	output adj port	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L265	2991441	(microcontroller microcomputer microprocessor processor controller)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L266	15	L262 and L263 and L264 and L265	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L267	0	L259 and L266	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:04 PM
L268	188	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L269	0	L259 and L268	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L270	224	((integrated combo	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03

		combination assembly) adj jumper) and ((plug connector))	EPO)				01:05 PM
L271	0	L259 and L270	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L272	25112	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L273	0	L259 and L272	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:05 PM
L274	1687265	(isolat\$3 (batter\$3 adj presence) adj sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:06 PM
L275	53	L259 and L274	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:06 PM
L276	0	L275 and L272	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:07 PM
L277	84	(jump adj (start\$3 cable)) with (alligator\$2 clamp\$2)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:07 PM
L278	0	L275 and L277	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:07 PM
L279	150	(US-5793185-\$ or US- 5752754-\$ or US- 4562893-\$ or US- 4793175-\$ or US- 4972135-\$ or US- 5886501-\$ or US- 5936317-\$ or US- 4521204-\$ or US- 4540376-\$ or US- 4554221-\$ or US- 4565538-\$ or US- 4573943-\$ or US- 4759728-\$ or US- 4798975-\$ or US- 4878877-\$ or US- 4889516-\$ or US- 4969834-\$ or US- 5179494-\$ or US- 5219034-\$ or US- 5281792-\$ or US- 5354215-\$ or US- 5367250-\$ or US- 5479160-\$ or US- 5515939-\$ or US- 5635804-\$ or US- 5635818-\$).did. or (US- 5687573-\$ or US- 5754031-\$ or US- 5780953-\$ or US- 5796255-\$ or US- 6036574-\$ or US- 6111393-\$ or US- 6130519-\$ or US- 6232728-\$ or US-	(USPAT)	OR	ON	ON	2014/12/03 01:08 PM

		3590357-\$ or US- 3585358-\$ or US- 3654538-\$ or US- 3648146-\$ or US- 3783846-\$ or US- 4246559-\$ or US- 4251847-\$ or US- 4272142-\$ or US- 4274690-\$ or US- 4305004-\$ or US- 4309675-\$ or US- 4321542-\$ or US- 4323830-\$ or US- 4327420-\$ or US- 4327519-\$ or US- 4346335-\$ or US- 4346893-\$ or US- 4349774-\$ or US- 4359893-\$).did. or (US- 4366430-\$ or US- 4379989-\$ or US- 4380718-\$ or US- 4383213-\$ or US- 4388618-\$ or US- 4420212-\$ or US- 4435660-\$ or US- 4449089-\$ or US- 4459536-\$ or US- 4461958-\$ or US- 4463402-\$ or US- 4479083-\$ or US- 4482830-\$ or US- 4488147-\$ or US- 4491110-\$ or US- 4497306-\$ or US- 4503378-\$ or US- 4508516-\$ or US- 4511831-\$ or US- 4511825-\$ or US- 4516648-\$ or US- 4537174-\$ or US- 4550280-\$ or US- 4575670-\$ or US- 4584513-\$ or US- 4615958-\$ or US- 4616166-\$).did. or (US- 4631455-\$ or US- 4760000-\$ or US- 4764852-\$ or US- 4769586-\$ or US- 4799135-\$ or US- 4820966-\$ or US- 4829223-\$ or US- 4831321-\$ or US- 4840583-\$ or US- 4859987-\$ or US- 4868409-\$ or US- 4871957-\$ or US-					
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		4871959-\$ or US- 4884464-\$ or US- 4885524-\$ or US- 4892204-\$ or US- 4913981-\$ or US- 4923415-\$ or US- 4924176-\$ or US- 4975089-\$ or US- 5012689-\$ or US- RE34159-\$ or US- 5241242-\$ or US- 5245258-\$ or US- H001236-\$ or US- 5253138-\$ or US- 5277285-\$).did. or (US- 5287085-\$ or US- 5306990-\$ or US- 5343128-\$ or US- 5343135-\$ or US- 5357186-\$ or US- 5430334-\$ or US- 5498933-\$ or US- 5502368-\$ or US- 5522582-\$ or US- 5546264-\$ or US- 5548462-\$ or US- 5555864-\$ or US- 5560442-\$ or US- 5565760-\$ or US- 5571999-\$ or US- 5593797-\$ or US- 5604653-\$ or US- 5626504-\$ or US- 5631544-\$ or US- 5635817-\$ or US- 5650242-\$ or US- 5652471-\$ or US- 5656922-\$ or US- 5691892-\$ or US- 5693995-\$ or US- 5701038-\$ or US- 5710471-\$).did. or (US- 5712549-\$ or US- 5712568-\$ or US- 5731669-\$ or US- 5747909-\$ or US- 5753989-\$ or US- 5767660-\$ or US- 5772468-\$ or US- 5777455-\$ or US- 5790037-\$ or US- 5795182-\$ or US- 5820407-\$ or US- 5847911-\$ or US- 5868076-\$ or US- 5892342-\$ or US- 5913911-\$ or US- 5921809-\$).did.					
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L280	0	L275 and L279	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:08 PM
L281	1856	320/110-112.ccls. and (@ad<="20140703")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:08 PM
L282	0	L275 and L281	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:08 PM
L283	1	"20130241488"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2014/12/03 01:39 PM
L284	1	"20050110467"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 11:35 AM
L285	3824	(H02J7/0034 H02J7/0054 Y02E60/12 H02J7/0042, H02J2001/006).cpc.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:06 PM
L286	3612	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:07 PM
L287	25490	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:07 PM
L288	169705	output adj port	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:07 PM
L289	17	L286 and L287 and L288	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:07 PM
L290	4	L285 and L287 and L288	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:08 PM
L291	1	"6130519".pn.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 02:32 PM
L292	3824	(H02J7/0034 H02J7/0054 Y02E60/12 H02J7/0042, H02J2001/006).cpc.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L293	25490	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L294	169705	output adj port	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L295	4	L303 and L304 and L305	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L296	4	L306 and (@ad<="20140703")	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2015/01/29 10:34 PM
L297	1	"9007015".PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/23 12:22 PM
L298	2	"9506446".PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/23 08:53 PM
L299	2	"20040130298"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/23 09:12 PM
L300	1	"20050110467"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 03:49 PM
L301	154	("5793185" "5752754" "4562893" "4793175" "4972135" "5886501"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM

		"5936317" "4521204" "4540376" "4554221" "4565538" "4573943" "4759728" "4798975" "4878877" "4889516" "4969834" "5179494" "5219034" "5281792" "5354215" "5367250" "5479160" "5515939" "5635804" "5635818" "5687573" "5754031" "5780953" "5796255" "6036574" "6111393" "6130519" "6232728" "3590357" "3585358" "3654538" "3648146" "3783846" "4246559" "4251847" "4272142" "4274690" "4305004" "4309675" "4321542" "4323830" "4327420" "4327519" "4346335" "4346893" "4349774" "4359893" "4366430" "4379989" "4380718" "4383213" "4388618" "4420212" "4435660" "4449089" "4459536" "4461958" "4463402" "4479083" "4482830" "4488147" "4491110" "4497306" "4503378" "4508516" "4511831" "4511825" "4516648" "4537174" "4550280" "4575670" "4584513" "4615958" "4616166" "4631455" "4760000" "4764852" "4769586" "4799135" "4820966" "4829223" "4831321" "4840583" "4859987" "4868409" "4871957" "4871959" "4884464" "4885524" "4892204" "4913981" "4923415" "4924176" "4975089" "5012689" RE34159 "5241242" "5245258" H001236 "5253138" "5277285" "5287085" "5306990" "5343128" "5343135" "5357186" "5430334" "5498933" "5502368" "5522582" "5546264" "5548462" "5555864" "5560442" "5565760" "5571999"					
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		"5593797" "5604653" "5626504" "5631544" "5635817" "5650242" "5652471" "5656922" "5691892" "5693995" "5701038" "5710471" "5712549" "5712568" "5731669" "5747909" "5753989" "5767660" "5772468" "5777455" "5790037" "5795182" "5820407" "5847911" "5868076" "5892342" "5913911" "5921809") .pn.					
L302	4480	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM
L303	35042	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM
L304	62	L313 and L314	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM
L305	1	L312 AND L315	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2018/04/24 06:18 PM
L306	73	((batter\$3 adj presence)) adj (sens\$3 detect\$4)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 07:16 PM
L307	259	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 07:16 PM
L308	0	L317 and L318	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 07:16 PM
L309	35	(positive negative) near vehicle near connect\$2	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 07:18 PM
L310	73	((batter\$3 adj presence)) adj (sens\$3 detect\$4)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:13 PM
L311	35	(positive negative) near vehicle near connect\$2	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:13 PM
L312	0	L321 and L322	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:13 PM
L313	302	((integrated combo combination assembly) adj jumper) and ((plug connector))	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:24 PM
L314	0	L321 and L324	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:24 PM
L315	37280	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:25 PM
L316	7	L321 and L326	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:25 PM
L317	4703	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05

L318	37280	(internal adj power adj (supply source)) (internal adj PS)	EPO) (US-PGPUB; USPAT; EPO)	OR	ON	ON	09:26 PM 2019/01/05 09:26 PM
L319	67	L328 and L329	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:26 PM
L320	0	L327 and L330	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:26 PM
L321	130	battery adj (presence connection) adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:29 PM
L322	7	L327 and L332	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 09:29 PM
L323	2	"20040130298"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/01/05 11:34 PM
L324	14677	(B60L53/14 or H02J7/0047 or H02J7/0054 or H02J7/0029 or H02J7/0034 or H02J2007/0062 or H02J2007/005 or H02J2001/006).cpc.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/07/25 02:58 PM
L325	1	"9007015".PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 11:00 AM
L326	1	"9770992".PN.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 12:07 PM
L327	150	(US-6014016-\$ or US-6157148-\$ or US-5819695-\$ or US-6057055-\$ or US-6168470-\$ or US-6184794-\$ or US-6240637-\$ or US-4403274-\$ or US-4413234-\$ or US-4546265-\$ or US-5193212-\$ or US-5194799-\$ or US-5245304-\$ or US-5309031-\$ or US-5685630-\$ or US-5778026-\$ or US-5789099-\$ or US-5811913-\$ or US-5850134-\$ or US-4270834-\$ or US-4270827-\$ or US-4274043-\$ or US-4303962-\$ or US-4305550-\$ or US-4314193-\$ or US-4320333-\$).did. or (US-4354725-\$ or US-4374347-\$ or US-	(USPAT)	OR	ON	ON	2019/10/07 01:22 PM

		4373763-\$ or US- 4373762-\$ or US- 4377317-\$ or US- 4384240-\$ or US- 4409538-\$ or US- 4467263-\$ or US- 4470654-\$ or US- 4496204-\$ or US- 4516066-\$ or US- 4527223-\$ or US- 4552542-\$ or US- 4555656-\$ or US- 4567476-\$ or US- 4785229-\$ or US- 4794315-\$ or US- 4808495-\$ or US- 4811176-\$ or US- 4816972-\$ or US- 4924358-\$ or US- 4928094-\$ or US- 4929522-\$ or US- 4959640-\$ or US- 5192904-\$ or US- 5193198-\$ or US- 5204611-\$).did. or (US- 5206636-\$ or US- 5225760-\$ or US- 5237257-\$ or US- 5245269-\$ or US- 5260636-\$ or US- 5267800-\$ or US- 5287298-\$ or US- 5291388-\$ or US- 5304434-\$ or US- 5406272-\$ or US- 5426358-\$ or US- 5472802-\$ or US- 5506488-\$ or US- 5528901-\$ or US- 5536977-\$ or US- 5539610-\$ or US- 5587916-\$ or US- 5608303-\$ or US- 5614807-\$ or US- 5643693-\$ or US- 5660946-\$ or US- 5662504-\$ or US- 5672952-\$ or US- 5682050-\$ or US- 5689209-\$ or US- 5723973-\$ or US- 5747891-\$).did. or (US- 5796181-\$ or US- 5833499-\$ or US- 5876423-\$ or US- 5886501-\$ or US- 5908714-\$ or US- 5915224-\$ or US-					
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		5916709-\$ or US- 5929604-\$ or US- 5936317-\$ or US- 5940520-\$ or US- 5978491-\$ or US- 6046445-\$ or US- 6078214-\$ or US- 6087740-\$ or US- 6091906-\$ or US- 6131065-\$ or US- 6174618-\$ or US- 4245308-\$ or US- 4246635-\$ or US- 4246544-\$ or US- 4247813-\$ or US- 4247753-\$ or US- 4258292-\$ or US- 4259631-\$ or US- 4262278-\$ or US- 4271092-\$ or US- 4275385-\$).did. or (US- 4276236-\$ or US- 4281368-\$ or US- 4290060-\$ or US- 4292840-\$ or US- 4307437-\$ or US- 4306374-\$ or US- 4314194-\$ or US- 4316097-\$ or US- 4321523-\$ or US- 4321646-\$ or US- 4322484-\$ or US- 4323837-\$ or US- 4326161-\$ or US- 4330686-\$ or US- 4332003-\$ or US- 4335375-\$ or US- 4335481-\$ or US- 4339677-\$ or US- 4345154-\$ or US- 4355263-\$ or US- 4355422-\$ or US- 4356442-\$ or US- 4360789-\$ or US- 4361730-\$ or US- 4368507-\$ or US- 4382221-\$ or US- 4392185-\$).did. or (US- 4395774-\$ or US- 4399201-\$ or US- 4401856-\$ or US- 4410835-\$ or US- 4414298-\$ or US- 4413364-\$ or US- 4415272-\$ or US- 4415843-\$ or US- 4417240-\$ or US- 4416550-\$ or US-					
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L328	150	4424854-\$ or US- 4430396-\$ or US- 4432938-\$ or US- 4435742-\$ or US- 4435486-\$ or US- 4445358-\$).did. (US-6014016-\$ or US- 6157148-\$ or US- 5819695-\$ or US- 6057055-\$ or US- 6168470-\$ or US- 6184794-\$ or US- 6240637-\$ or US- 4403274-\$ or US- 4413234-\$ or US- 4546265-\$ or US- 5193212-\$ or US- 5194799-\$ or US- 5245304-\$ or US- 5309031-\$ or US- 5685630-\$ or US- 5778026-\$ or US- 5789099-\$ or US- 5811913-\$ or US- 5850134-\$ or US- 4270834-\$ or US- 4270827-\$ or US- 4274043-\$ or US- 4303962-\$ or US- 4305550-\$ or US- 4314193-\$ or US- 4320333-\$).did. or (US- 4354725-\$ or US- 4374347-\$ or US- 4373763-\$ or US- 4373762-\$ or US- 4377317-\$ or US- 4384240-\$ or US- 4409538-\$ or US- 4467263-\$ or US- 4470654-\$ or US- 4496204-\$ or US- 4516066-\$ or US- 4527223-\$ or US- 4552542-\$ or US- 4555656-\$ or US- 4567476-\$ or US- 4785229-\$ or US- 4794315-\$ or US- 4808495-\$ or US- 4811176-\$ or US- 4816972-\$ or US- 4924358-\$ or US- 4928094-\$ or US- 4929522-\$ or US- 4959640-\$ or US- 5192904-\$ or US- 5193198-\$ or US-	(USPAT)	OR	ON	ON	2019/10/07 01:22 PM
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		5204611-\$).did. or (US- 5206636-\$ or US- 5225760-\$ or US- 5237257-\$ or US- 5245269-\$ or US- 5260636-\$ or US- 5267800-\$ or US- 5287298-\$ or US- 5291388-\$ or US- 5304434-\$ or US- 5406272-\$ or US- 5426358-\$ or US- 5472802-\$ or US- 5506488-\$ or US- 5528901-\$ or US- 5536977-\$ or US- 5539610-\$ or US- 5587916-\$ or US- 5608303-\$ or US- 5614807-\$ or US- 5643693-\$ or US- 5660946-\$ or US- 5662504-\$ or US- 5672952-\$ or US- 5682050-\$ or US- 5689209-\$ or US- 5723973-\$ or US- 5747891-\$).did. or (US- 5796181-\$ or US- 5833499-\$ or US- 5876423-\$ or US- 5886501-\$ or US- 5908714-\$ or US- 5915224-\$ or US- 5916709-\$ or US- 5929604-\$ or US- 5936317-\$ or US- 5940520-\$ or US- 5978491-\$ or US- 6046445-\$ or US- 6078214-\$ or US- 6087740-\$ or US- 6091906-\$ or US- 6131065-\$ or US- 6174618-\$ or US- 4245308-\$ or US- 4246635-\$ or US- 4246544-\$ or US- 4247813-\$ or US- 4247753-\$ or US- 4258292-\$ or US- 4259631-\$ or US- 4262278-\$ or US- 4271092-\$ or US- 4275385-\$).did. or (US- 4276236-\$ or US- 4281368-\$ or US- 4290060-\$ or US-					
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		4292840-\$ or US- 4307437-\$ or US- 4306374-\$ or US- 4314194-\$ or US- 4316097-\$ or US- 4321523-\$ or US- 4321646-\$ or US- 4322484-\$ or US- 4323837-\$ or US- 4326161-\$ or US- 4330686-\$ or US- 4332003-\$ or US- 4335375-\$ or US- 4335481-\$ or US- 4339677-\$ or US- 4345154-\$ or US- 4355263-\$ or US- 4355422-\$ or US- 4356442-\$ or US- 4360789-\$ or US- 4361730-\$ or US- 4368507-\$ or US- 4382221-\$ or US- 4392185-\$).did. or (US- 4395774-\$ or US- 4399201-\$ or US- 4401856-\$ or US- 4410835-\$ or US- 4414298-\$ or US- 4413364-\$ or US- 4415272-\$ or US- 4415843-\$ or US- 4417240-\$ or US- 4416550-\$ or US- 4424854-\$ or US- 4430396-\$ or US- 4432938-\$ or US- 4435742-\$ or US- 4435486-\$ or US- 4445358-\$).did.					
L329	4959	jump adj start\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:28 PM
L330	39692	(internal adj power adj (supply source)) (internal adj PS)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:28 PM
L331	70	L343 and L344	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:28 PM
L332	13669	320/105.ccls. (H02J7/0054 or H02J7/0034 or H02J7/0029 or H02J7/0047 or H02J2001/006 or H02J2007/005 or H02J2007/0062 or H02J7/0063 or H02J1/06 or	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:31 PM

L333	331	H02J2007/004 or H02J2007/0037).cpc. (reverse reversed) adj polarity adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:32 PM
L334	135	battery adj (presence connection) adj (sens\$3 detect\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:32 PM
L335	0	L347 and L348	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:32 PM
L336	0	L345 and (L347 L348) and L342	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:34 PM
L337	10	L345 and (L347 L348) and L346	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:34 PM
L338	4639064	(microcontroller microcomputer microprocessor processor controller)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:35 PM
L339	10	L351 and L352	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/10/07 01:35 PM
L340	38	((("THE") near3 ("NOCO") near3 ("COMPANY"))).AS,AA NM.	(USPAT)	OR	ON	ON	2019/10/07 01:48 PM
L341	87	((("NOOK") near3 ("Jonathan")) OR (("NOOK") near3 ("William")) OR (("STANFIELD") near3 ("James")) OR (("UNDERHILL") near3 ("Derek"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2019/10/07 01:48 PM
L342	68	("20020041174" "20040 066168" "20040130298 " "20050040788" "2005 0110467" "2005025257 3" "20070285049" "201 00301800" "201100687 34" "20120091944" "20 130154543" "20130314 041" "20140159509" "2 0150306964" "2016000 1666" "20180111491" " 20180215274" "201802 69703" "20180342891" " 20180345803" "20190 308518" "3933140" "40 41445" "4885524" "493 1731" "5083076" "5111 130" "5189359" "54864 34" "5635817" "563581 8" "5793185" "5795182" "5921809" "5965998" " 6054779" "6130519" "6 140796" "6147471" "62	(US-PGPUB; USPAT)	OR	ON	ON	2019/11/20 07:47 PM

		12054 "6262492 "6262559 "6362599 "6386907 "6426606 "6632103 "6648701 "6756764 "6803743 "6822425 "7301303 "7749031 "7872361 "8076900 "8199024 "8376775 "8493021 "9007015 "9506446 "9770992 "D625265 "D649116 "D689020 "D726109 "D726114 "D726121 "D735665 "D746774").PN.					
L343	1	"10328808".pn.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:01 PM
L344	1	"9770992".pn.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:03 PM
L345	9696	(isolat\$3 (batter\$3 adj presence)) adj sens\$3	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:25 PM
L346	279	reverse adj polarity adj (detect\$3 sens\$3)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:25 PM
L347	11	L359 and L360	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:25 PM
L348	7	L356 and L361	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2019/11/20 08:38 PM
L349	1	"10604024".pn.	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2020/07/01 07:06 PM
L365	2	"10604024".pn.	(US-PGPUB; USPAT; USOCR; FIT (CN, EP, FR, JP, KR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/26 11:15 PM
L366	19947	(USB (universal NEAR serial NEAR bus)) NEAR ((charg\$3 NEAR input NEAR port) (input charg\$3) NEAR port)	(US-PGPUB; USPAT; USOCR; FIT (CN, EP, FR, JP, KR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/26 11:33 PM
L367	30	L233 L232 L366	(US-PGPUB; USPAT; USOCR; FIT (CN, EP, FR, JP, KR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/08/26 11:35 PM
L368	33	L346 L366 L333 L330	(US-PGPUB; USPAT; USOCR; FIT (CN, EP, FR, JP, KR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	AND	ON	ON	2021/08/26 11:42 PM
L369	199	(jump boost) NEAR start\$3 NEAR (device apparatus instrument module)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2021/08/26 11:44 PM
L370	25	L369 L366	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2021/08/26 11:45 PM

L371	921407	"705"	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2021/08/26 11:52 PM
L372	2	("2019/0081472").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2021/08/27 12:19 AM
L373	15	("2479705" "4895530" "5367243" "6215273" "6222342" "6623315" "20020195995" "20030141842" "20080185996" "20150054460" "20150377808" "20160049819" "20160329731" "20190081472").pn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	AND	ON	ON	2021/08/27 12:20 AM
L374	555	(Lithium NEAR battery) WITH (cell NEAR (balanc\$3 equaliz\$5))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/30 06:48 PM
L375	1219412	mini	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/30 07:34 PM
L376	26965543	10	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2021/08/30 11:27 PM

L377	2	"20090174362".pn.	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/30 11:38 PM
L378	5	"5867007".pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/31 11:34 AM
L379	2	"20090174362".pn.period	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2021/08/31 03:23 PM

L380	2	"8076900".pn.	IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/31 03:41 PM
L381	4	"20110068734".pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/31 03:45 PM
L382	684307	(B60L53/14 OR H02J7/342 OR H02J7/0047 OR H02J7/0034 OR H02J7/0029 OR H02J1/122 OR H02J7/00 OR H02J7/0048 OR H02J7/00302 OR H02J7/00309 OR H02J7/00306 OR Y02T90/14 OR Y02T10/7072 OR Y02T10/70 OR H02J2310/46).cpc. 320/105.ccls.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/08/31 05:56 PM
L383	2	L382 L369 L374 L346 L366	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	AND	ON	ON	2021/08/31 05:58 PM

L384	135	((("NOOK") near3 ("Jonathan")) OR ((("NOOK") near3 ("William")) OR ((("STANFIELD") near3 ("James")) OR ((("UNDERHILL") near3 ("Derek")))).INV.	MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	AND	ON	ON	2021/08/31 05:59 PM
L385	135	((("NOOK") near3 ("Jonathan")) OR ((("NOOK") near3 ("William")) OR ((("STANFIELD") near3 ("James")) OR ((("UNDERHILL") near3 ("Derek")))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	AND	ON	ON	2021/08/31 06:00 PM
L386	0	L338 L346 L369 L313	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	AND	ON	ON	2021/08/31 06:01 PM
L387	117	("10328808" OR "10604024" OR "20010025618" OR "20020041174" OR "20030141845" OR "20040066168" OR "20040130298" OR "20040150373" OR "20040239290" OR "20050040788" OR "20050110467" OR "20050116688" OR "20050252573" OR "20060176011" OR "20060220610" OR "20060244412" OR "20070278990" OR "20070285049" OR "20080143290" OR "20100301800" OR "20110068734" OR "20110175461" OR "20120025766" OR "20120091944" OR "20120319487" OR "20130154543" OR "20130162029" OR "20130241488" OR "20130314041" OR "20140084844" OR	(US-PGPUB; USPAT)	OR	ON	ON	2021/08/31 06:04 PM

		"20140159509" OR "20140210399" OR "20140368155" OR "20150054336" OR "20150137740" OR "20150306964" OR "20150340907" OR "20160001666" OR "20180111491" OR "20180215274" OR "20180269703" OR "20180342891" OR "20180345803" OR "20190308518" OR "3590357" OR "3638108" OR "3933140" OR "4041445" OR "4885524" OR "4910628" OR "4931731" OR "5083076" OR "5111130" OR "5189359" OR "5194799" OR "5281904" OR "5319298" OR "5486434" OR "5635817" OR "5635818" OR "5650974" OR "5793185" OR "5795182" OR "5820407" OR "5921809" OR "5953681" OR "5965998" OR "6054779" OR "6130519" OR "6140796" OR "6147471" OR "6212054" OR "6262492" OR "6262559" OR "6344733" OR "6362599" OR "6386907" OR "6424158" OR "6426606" OR "6632103" OR "6648701" OR "6650086" OR "6679212" OR "6756764" OR "6759833" OR "6803743" OR "6822425" OR "7148580" OR					
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		"7301303" OR "7345450" OR "7749031" OR "7872361" OR "7893657" OR "8076900" OR "8172603" OR "8199024" OR "8362745" OR "8376775" OR "8493021" OR "9007015" OR "9041244" OR "9153978" OR "9243601" OR "9506446" OR "9525297" OR "9770992" OR "9809183" OR "9954391" OR "D597029" OR "D625265" OR "D649116" OR "D689020" OR "D726109" OR "D726114" OR "D726121" OR "D735665" OR "D746774").pn.					
L388	0	L387 L374 L369 L366	(US-PGPUB; USPAT)	AND	ON	ON	2021/08/31 06:04 PM
L389	34	(USB (universal NEAR serial NEAR bus)) NEAR charg\$3 NEAR (circuit\$2) WITH (USB (universal NEAR serial NEAR bus)) NEAR input	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 12:43 PM
L390	0	L329 AND L389	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	OR	ON	ON	2022/03/08 12:43 PM

L391	0	(L313 L319) AND L389	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 12:44 PM
L392	0	(L313 L319 L369) AND L389	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 12:45 PM
L393	1	"62294067".pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 03:48 PM
L394	1	"62294067".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2022/03/08 03:49 PM

L395	2	"20080157732".pn.	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 05:52 PM
L396	2	"20120187897".pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 05:53 PM
L397	5	JP-3182855-\$.DID.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 06:41 PM

L398	3	"9048666".pn.	TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 07:31 PM
L399	114	(jump?start\$3 near3 (vehicle automobile car truck)) WITH (discharged depleted drained empty dead) NEAR battery	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 07:35 PM
L400	115	(jump?start\$3 near3 (vehicle automobile car truck)) WITH (discharged depleted drained empty dead) NEAR battery	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/03/08 07:36 PM
L401	0	"201300154550".pn.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2022/06/09 02:37 PM

L402	9	"2013154550".pn.	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/09 02:37 PM
L403	187	(jump near2 start\$3 WITH boost\$3 upconvert\$3).clm. AND (USB NEAR (circuit\$2 port))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/07/30 01:46 PM
L404	1290	(usb NEAR (input connector port)) AND (USB near2 charg\$3 NEAR circuit\$2)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/07/30 01:47 PM

L405	3	L403 AND L404 AND L400	JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/07/30 01:48 PM
L406	12	L382 AND L403	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/07/30 01:50 PM
L407	43	((US-8172603-B1 OR US-5083076-A OR US- 6262559-B1 OR US- 6130519-A OR US- 4885524-A OR US- 5965998-A OR US- 5650974-A OR US- 9041244-B2 OR US- 5953681-A OR US- 10981452-B2 OR US- 6215273-B1 OR US- 9748541-B2 OR US- 9601800-B2 OR US- 9048666-B2 OR US- 10218172-B2 OR US- 9748778-B2 OR US- 7893558-B2 OR US- 7893655-B2 OR US- 7017055-B1 OR US- 11112844-B2 OR US- 10087904-B2).did. AND USPT.dbnm.) OR ((US- 20130314041-A1 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/03 01:52 PM

L408	3	US-20120091944-A1 OR US-20070285049-A1 OR US-20050252573-A1 OR US-20050040788-A1 OR US-20130241488-A1 OR US-20120319487-A1 OR US-20150137740-A1 OR US-20110175461-A1 OR US-20190081472-A1 OR US-20160181587-A1 OR US-20100052620-A1 OR US-20160111914-A1 OR US-20090026837-A1 OR US-20180341309-A1 OR US-20130154550-A1 OR US-20180369599-A1).did. AND PGPB.dbnm.) OR ((PH-12013500793-B1 OR AU-2011334615-B2 OR DE-102007052750-A1 OR WO-2009059852-A2).did. AND FTDB.dbnm.) OR ((US-20150015184-A1).did. AND DWPI.dbnm.)					
		((WO-2009059852-A2 OR DE-102007052750-A1).did. AND FTDB.dbnm.) OR ((US-10087904-B2).did. AND USPT.dbnm.)	(FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); USPAT)	OR	ON	ON	2022/08/03 01:53 PM
L409	134	("10084173" OR "10128483" OR "10328806" OR "10461545" OR "20010003827" OR "20020007500" OR "20020007699" OR "20020121877" OR "20020155752" OR "20030096158" OR "20040106038" OR "20040124810" OR "20050082833" OR	(US-PGPUB; USPAT)	OR	ON	ON	2022/08/04 05:54 PM

		"20050162124" OR "20050213867" OR "20060071631" OR "20070132427" OR "20070132537" OR "20070178777" OR "20070182363" OR "20080131764" OR "20080150473" OR "20080157732" OR "20090039712" OR "20090108814" OR "20090174362" OR "20090218988" OR "20090236859" OR "20090253312" OR "20100001682" OR "20100013302" OR "20100055546" OR "20100129723" OR "20100164439" OR "20100173182" OR "20100181959" OR "20100244766" OR "20100283623" OR "20110117408" OR "20110127947" OR "20110140651" OR "20110250473" OR "20110268996" OR "20110279089" OR "20110308856" OR "20120013189" OR "20120038365" OR "20120068662" OR "20120126818" OR "20120139498" OR "20120169116" OR "20120187897" OR "20120270097" OR "20120295150" OR "20120299533" OR "20130084471" OR "20130104817" OR "20130154544" OR "20130241498" OR "20130295444" OR "20140045001" OR "20140077755" OR "20140113463" OR "20140127550" OR "20140139175" OR "20150012174" OR "20150037662" OR "20150087182" OR "20150222060" OR "20150236329" OR "20150366538" OR					
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		"20150380697" OR "20160141728" OR "20160155996" OR "20170084899" OR "20170309872" OR "3085187" OR "3105183" OR "3267452" OR "4142771" OR "4740740" OR "4972135" OR "4990723" OR "5496658" OR "5589757" OR "5637978" OR "5707257" OR "5716735" OR "5831350" OR "6002235" OR "6037778" OR "6057667" OR "6144110" OR "6160381" OR "6222342" OR "6249106" OR "6271605" OR "6300742" OR "6384573" OR "6679708" OR "6774607" OR "6799993" OR "6856764" OR "6919704" OR "7015674" OR "7095339" OR "7339347" OR "7508171" OR "7514900" OR "7579811" OR "7656118" OR "7675261" OR "7679317" OR "7791319" OR "7847520" OR "7868582" OR "8030900" OR "8125181" OR "8221915" OR "8686688" OR "8736227" OR "8786247" OR "8994327" OR "9007023" OR "9070938" OR "9197079" OR "9263717" OR "9263907" OR "9287725" OR					
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L410	3	"9537136" OR "9608294" OR "9718419" OR "9871392" OR "9874611").pn. ("10087904" OR "20150306967" OR "7893558").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:20 AM
L411	13	("10087904" OR "20150306967" OR "7893558").pn.USB	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:28 AM
L412	0	(portable OR handheld) NEAR (car vehicle truck plane boat motorcycle autonomous vehicle robot forklift truck) ADJ (jump ADJ start\$3) jumpstart\$2) ADJ (apparatus device unit module) WITH (safety ADJ protect\$3) WITH (USB (universal ADJ serial ADJ bus)) ADJ (input ADJ connect\$2 AND charg\$3 ADJ circuit\$2)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:38 AM
L413	0	(portable OR handheld) NEAR (car vehicle truck plane boat motorcycle autonomous vehicle robot forklift truck) ADJ (jump ADJ start\$3) jumpstart\$2) ADJ (apparatus device unit module) SAME (safety ADJ protect\$3) SAME (USB (universal ADJ serial ADJ bus)) ADJ (input ADJ connect\$2 AND charg\$3 ADJ circuit\$2)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:39 AM
L414	0	(portable OR handheld) NEAR (car vehicle truck plane boat motorcycle autonomous vehicle robot forklift truck) ADJ (jump ADJ start\$3) jumpstart\$2) ADJ (apparatus device unit module) AND (safety ADJ protect\$3) AND (USB (universal ADJ serial ADJ bus)) ADJ (input ADJ connect\$2 AND charg\$3 ADJ circuit\$2)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:39 AM

L415	0	(portable OR handheld) NEAR (car vehicle truck plane boat motorcycle autonomous vehicle robot forklift truck) ADJ ((jump ADJ start\$3) jumpstart\$2) ADJ (apparatus device unit module) AND (safety ADJ protect\$3) AND (USB (universal ADJ serial ADJ bus)) ADJ (input ADJ connect\$2) AND (USB ADJ charg\$3 ADJ circuit\$2)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:40 AM
L416	0	(portable OR handheld) NEAR (car vehicle truck plane boat motorcycle autonomous vehicle robot forklift truck) ADJ ((jump ADJ start\$3) jumpstart\$2) ADJ (apparatus device unit module) AND (safety ADJ protect\$3) AND (USB (universal ADJ serial ADJ bus)) ADJ (input ADJ connect\$2) AND (USB ADJ charg\$3 ADJ circuit\$2)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/10 11:40 AM
L417	0	(portable OR handheld) NEAR (car vehicle truck plane boat motorcycle autonomous vehicle robot forklift truck) ADJ ((jump ADJ start\$3) jumpstart\$2) ADJ (apparatus device unit module) AND (safety (reverse ADJ polarity) ADJ protect\$3) AND (USB (universal ADJ serial ADJ bus)) ADJ ((input ADJ connect\$2) port) AND (USB ADJ charg\$3 ADJ circuit\$2)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/10 11:42 AM
L418	0	(jumpstart\$3 AND device AND boost\$3 AND charg\$3 AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND connect\$3 AND power AND switch AND USB AND input AND charge AND circuit AND	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	OR	ON	ON	2022/11/10 11:44 AM

L419	0	USB AND connect\$2).clm. (jumpstart\$3 AND device AND boost\$3 AND charg\$3 AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND connect\$3 AND power AND switch AND USB AND input AND charge AND circuit AND (USB ADJ connect\$2)).clm.	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/10 11:45 AM
L420	0	(jumpstart\$3 AND device AND boost\$3 AND charg\$3 AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND power AND switch\$3 AND USB AND input AND charge AND circuit\$2 AND (USB ADJ connect\$2)).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/10 11:46 AM
L421	45	(Artificial Intelligence) Similar to: 16/820,040 with 0 CPC Selections and 0 Text Selections Text: (US-20200215926-A1 OR US-11447023-B2 OR US-20200317068-A1 OR US-11458851-B2 OR US-20160001666-A1 OR US-20190308518-A1 OR US-9007015-B1 OR US-10604024-B2 OR US-20180111491-A1 OR US-20210031640-A1 OR US-20180345803-A1 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB))	OR	ON	ON	2022/11/10 12:28 PM

L422	47	US-20180215274-A1 OR US-10328808-B2 OR US-9770992-B2 OR US-20200259340-A1 OR GB-2582520-A OR US-7479763-B2 OR WO-2019190588-A1 OR US-20090174362-A1 OR US-20040251876-A1 OR US-11001212-B2 OR US-20200290535-A1 OR US-20030184264-A1 OR CN-207530573-U OR US-20210155096-A1 OR WO-2019101108-A1 OR JP-2020516219-A OR CN-207217796-U OR WO-9730502-A1 OR WO-2022055644-A1 OR US-20220085631-A1 OR GB-2579150-A OR US-5668461-A OR AU-2018403192-A1 OR CA-3085762-A1 OR US-9506446-B2 OR GB-2580257-A OR US-20150054336-A1 OR US-11254213-B2 OR US-20210075235-A1 OR US-20090218988-A1 OR GB-2605117-A OR AU-2018336956-B2 OR US-8493021-B2 OR EP-3707368-A1 OR CA-3072515-C OR JP-2020534772-A OR AU-2018336821-B2 OR DE-102019000352-A1 OR EP-0930199-A3).did. (Artificial Intelligence) Similar to: 16/820,040 with 11 CPC Selections and 1 Text Selection Text: (US-20200215926-A1 OR US-11447023-B2 OR US-20200317068-A1 OR US-11458851-B2 OR US-10604024-B2 OR US-20190308518-A1 OR US-20160001666-A1	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2022/11/10 12:30 PM
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L423	37	OR US-9007015-B1 OR US-20180111491-A1 OR US-20210031640-A1 OR US- 20180345803-A1 OR US-20180215274-A1 OR US-10328808-B2 OR US-9770992-B2 OR GB-2582520-A OR US- 7479763-B2 OR AU- 2018403192-A1 OR CA-3085762-A1 OR US-20200259340-A1 OR GB-2605117-A OR US-20040251876-A1 OR US-11001212-B2 OR US-20200290535-A1 OR US- 20090174362-A1 OR US-20030184264-A1 OR US-20210075235-A1 OR US-4349774-A OR GB-2579150-A OR CN-207530573-U OR EP-3707368-A1 OR WO-2019101108-A1 OR US-11254213-B2 OR AU-2022202497-A1 OR WO-9730502-A1 OR JP-2020516219-A OR US-5668461-A OR US-11394213-B2 OR GB-2580257-A OR CN- 207217796-U OR WO- 2022055644-A1 OR US-20220085631-A1 OR KR-101397709-B1 OR AU-2018336956-B2 OR US-10686323-B2 OR AU-2018403192-B2 OR KR-20130130190-A OR US-5965998-A OR US-9506446-B2 OR US-20180062410-A1 OR JP-2020534772-A).did. (Artificial Intelligence) More like doc: US-11458851-B2 Text: (US-20210031640-A1 OR US-11447023-B2 OR US-20200317068-A1 OR US- 20200215926-A1 OR US-11462928-B2 OR US-20200295575-A1	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO,	OR	ON	OFF	2022/12/12 01:27 PM
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		OR AU-2022200612-A1 OR AU-2020201224-A1 OR AU-2022201338-A1 OR AU-2022204065-A1 OR WO-2022178102-A1 OR US-20180111491-A1 OR AU-2016269555-A1 OR AU-2021202399-A1 OR AU-2020201222-A1 OR AU-2020201223-A1 OR CA-2916782-A1 OR CA-2916782-C OR AU-2022200746-A1 OR US-11394232-B2).did.	RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N111	0	(jump and vehicle and internal and power and supply and polarity and output\$2 and isolation and sensor and reverse and polarity and sensor and switch and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:50 PM
N112	0	(vehicle and internal and power and supply and polarity and output\$2 and isolation and sensor and reverse and polarity and sensor and switch and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:50 PM
N113	0	(vehicle and internal and power and supply and output\$2 and isolation and sensor and reverse and polarity and sensor and switch and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:50 PM
N114	0	(vehicle and internal and power and supply and output\$2 and isolation and sensor and reverse and polarity and switch and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:51 PM
N115	0	(vehicle and internal and power and supply	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:51 PM

N116	0	and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:52 PM
N117	0	(vehicle and power and supply and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:52 PM
N118	0	(vehicle and power and supply and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:52 PM
N119	0	(power and supply and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:53 PM
N120	0	(power and supply and output\$2 and isolation and sensor and revers\$3 and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:53 PM
N154	4	(supply and output\$2 and isolat\$3 and sensor and revers\$3 and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/07/25 05:23 PM
N155	4	(supply and output\$4 and isolat\$3 and sensor and revers\$3 and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/07/25 05:23 PM
N156	4	N154 and N155	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/07/25 05:24 PM

N181	5	(supply and output\$4 and isolat\$3 and sensor and revers\$3 and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/11/20 09:46 PM
N182	0	(jump and vehicle and internal and power and supply and polarity and output\$2 and isolation and sensor and reverse and polarity and sensor and switch and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:50 PM
N183	0	(vehicle and internal and power and supply and polarity and output\$2 and isolation and sensor and reverse and polarity and sensor and switch and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:50 PM
N184	0	(vehicle and internal and power and supply and output\$2 and isolation and sensor and reverse and polarity and sensor and switch and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:50 PM
N185	0	(vehicle and internal and power and supply and output\$2 and isolation and sensor and reverse and polarity and switch and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:51 PM
N186	0	(vehicle and internal and power and supply and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:51 PM
N187	0	(vehicle and power and supply and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and input and signal\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:52 PM
N188	0	(vehicle and power and	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29

12/12/2022 01:28:18 PM
Workspace: 16820040

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MD

		supply and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and signal\$2).clm.					04:52 PM
N189	0	(vehicle and power and supply and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:52 PM
N190	0	(power and supply and output\$2 and isolation and sensor and reverse and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:53 PM
N191	0	(power and supply and output\$2 and isolation and sensor and revers\$3 and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2015/01/29 04:53 PM
N192	4	(supply and output\$2 and isolat\$3 and sensor and revers\$3 and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/07/25 05:23 PM
N193	4	(supply and output\$4 and isolat\$3 and sensor and revers\$3 and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/07/25 05:23 PM
N194	4	N225 and N226	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/07/25 05:24 PM
N195	5	(supply and output\$4 and isolat\$3 and sensor and revers\$3 and polarity and switch\$3 and microcontrol\$3 and signal\$1).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2019/11/20 09:46 PM
N363	270	(power AND supply AND switch\$3 AND battery AND connect\$3 AND USB AND input AND charg\$3 AND circuit\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/03/08 08:01 PM
N364	18	(power AND supply AND switch\$3 AND	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/03/08 08:02 PM

N365	11	battery AND connect\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND DC\$1DC AND convert\$2).clm. (USB NEAR circuit\$2) WITH (DC/DC boost up) NEAR converter	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/03/08 10:09 PM
N366	1	"20200215926".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/03/09 12:36 PM
N367	0	(portable OR handheld) NEAR (car vehicle truck plane boat motorcycle autonomous vehicle robot forklift truck) ADJ (jump ADJ start\$3) jumpstart\$2) ADJ (apparatus device unit module) AND (safety (reverse ADJ polarity) ADJ protect\$3) AND (USB (universal ADJ serial ADJ bus)) ADJ (input ADJ connect\$2) AND (USB ADJ charg\$3 ADJ circuit\$2)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:41 AM
N368	0	(portable OR handheld) NEAR (car vehicle truck plane boat motorcycle autonomous vehicle robot forklift truck) ADJ (jump ADJ start\$3) jumpstart\$2) ADJ (apparatus device unit module) AND (safety (reverse ADJ polarity) ADJ protect\$3) AND (USB (universal ADJ serial ADJ bus)) ADJ ((input ADJ connect\$2) port) AND (USB ADJ charg\$3 ADJ circuit\$2)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:42 AM
N369	0	(jumpstart\$3 AND device AND boost\$3 AND charg\$3 AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND power AND switch\$3 AND USB AND input AND charge AND circuit\$2 AND (USB ADJ connect\$2)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:46 AM
N370	0	(jumpstart\$3 AND device AND boost\$3	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:47 AM

N371	0	AND charg\$3 AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND power AND switch\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND (USB ADJ connect\$2)).clm. (jumpstart\$3 AND device AND boost\$3 AND discharg\$3 AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND power AND switch\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND (USB ADJ connect\$2)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:48 AM
N372	0	(jumpstart\$3 AND device AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND power AND switch\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND (USB ADJ connect\$2)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:49 AM
N373	0	(jumpstart\$3 AND device AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND switch\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND (USB ADJ connect\$2)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:49 AM
N374	0	(jumpstart\$3 AND device AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND switch\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND connect\$2)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/10 11:50 AM
N375	0	(jumpstart\$3 AND device AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND	(US-PGPUB; USPAT)	OR	OFF	ON	2022/11/10 11:51 AM

N376	4	switch\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND connect\$2).clm. (jump AND start\$3 AND device AND deplet\$2 AND discharg\$2 AND battery AND power AND supply AND switch\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND connect\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	ON	2022/11/10 11:51 AM
N377	34	(Artificial Intelligence) More like doc: US-20200215926-A1 Text: (US-20200317068-A1 OR AU-2020201223-B2 OR AU-2020201223-C1 OR AU-2021258059-B2 OR AU-2022200612-A1 OR US-10604024-B2 OR AU-2020201224-A1 OR AU-2022201338-A1 OR AU-2022204065-A1 OR US-9007015-B1 OR US-20190308518-A1 OR AU-2019201559-B2 OR US-20180111491-A1 OR US-20160001666-A1 OR US-11462928-B2 OR AU-2021202399-A1 OR AU-2022200746-A1 OR AU-2020201222-A1 OR AU-2020201223-A1 OR AU-2019201559-A1).did.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/10 12:24 PM
N378	21	(power AND supply AND switch\$3 AND batter\$2 AND connect\$3 AND USB AND input AND charg\$3 AND circuit\$2 AND DC\$1DC AND convert\$2).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/12/12 01:27 PM

PE2E SEARCH - Search History (Similarity Search)

Ref #	Application Number	Text Selections	CPC Selections
L421	16/820,040	No selections	No selections
L422	16/820,040	(Claims) A jump starting device for boosting or charging a depleted or discharged battery having a positive battery terminal and a	(H02J7/0047) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries with monitoring

		negative battery terminal, the jump starting device comprising: a power supply; a positive battery connector for electrically connecting the jump starting starter device to the positive battery terminal of the depleted or discharged battery; a negative battery connector for electrically connecting the jump starting starter device to the negative battery terminal of the depleted or discharged battery; a power switch or switch circuit connected in circuit with the power supply and the positive and negative battery connectors, the power switch or switch circuit configured to switch power on from the power supply to boost or charge the depleted or discharged battery when connected between the positive and negative battery connectors; a USB input connector; and a USB charge circuit electrically connecting the USB input connector to the power supply, the USB charge circuit comprising a DC-DC converter configured to upconvert voltage from the USB input connector to the power supply.	or indicating devices or circuits (B60L53/14) Conductive energy transfer (H02J7/342) The other DC source being a battery actively interacting with the first one, i.e. battery to battery charging (H02J1/122) Provisions for temporary connection of DC sources of essentially the same voltage, e.g. jumpstart cables (H02J7/00) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries (H02J7/0029) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries with safety or protection devices or circuits (H02J7/0034) Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries with safety or protection devices or circuits using reverse polarity correcting or protecting circuits (Y02E60/10) Energy storage using batteries (Y02T10/70) Energy storage systems for electromobility, e.g. batteries (Y02T10/7072) Electromobility specific charging systems or methods for batteries, ultracapacitors, supercapacitors or double-layer capacitors (Y02T90/14) Plug-in electric vehicles
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NOTICE OF ALLOWANCE AND FEE(S) DUE

20583 7590 12/23/2022
Jones Day
250 Vesey Street
New York, NY 10281-1047

EXAMINER

DIAO, M BAYE

ART UNIT

PAPER NUMBER

2859

DATE MAILED: 12/23/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/820,040	03/16/2020	Jonathan Lewis NOOK	054985-000055-US-02-02	1056

TITLE OF INVENTION: PORTABLE VEHICLE BATTERY JUMP START APPARATUS WITH SAFETY PROTECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	03/23/2023

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

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

20583 7590 12/23/2022
Jones Day
250 Vesey Street
New York, NY 10281-1047

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/820,040	03/16/2020	Jonathan Lewis NOOK	054985-000055-US-02-02	1056

TITLE OF INVENTION: PORTABLE VEHICLE BATTERY JUMP START APPARATUS WITH SAFETY PROTECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	03/23/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
DIAO, M BAYE	2859	320-105000

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

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

2. For printing on the patent front page, list

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

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

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

(A) NAME OF ASSIGNEE

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

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

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

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

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

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

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

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/820,040	03/16/2020	Jonathan Lewis NOOK	054985-000055-US-02-02	1056
20583	7590	12/23/2022	EXAMINER	
Jones Day			DIAO, M BAYE	
250 Vesey Street			ART UNIT	PAPER NUMBER
New York, NY 10281-1047			2859	
DATE MAILED: 12/23/2022				

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/820,040	Applicant(s) NOOK et al.	
	Examiner M'BAYE DIAO	Art Unit 2859	AIA (FITF) Status Yes

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

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

1. ☒ This communication is responsive to A.NE and TD filed on 12/06/2022.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☒ The allowed claim(s) is/are 24-80 (renumbered 1-57). As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

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

Certified copies:

a) ☐ All b) ☐ Some* c) ☐ None of the:

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

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

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

* Certified copies not received: _____.

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

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

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

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

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☒ Other <u>A.NE of 12/06/2022</u> .
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/M BAYE DIAO/ Primary Examiner, Art Unit 2859	12/12/2022
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DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Response to Amendment

2. Acknowledgement is made of amendment filed on 12/06/2022 after final in which claims 75-76 are currently amended. By this amendment, claims 24-80 are still pending in the application.

Terminal Disclaimer

3. The terminal disclaimer filed on 12/06/2022 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of **USPAT 11,447,023** has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

4. Claims 24-80 (renumbered 1-57) are allowed over the prior art of record.

5. The prior art of record either taken alone or in combination thereof fails to teach or reasonably suggest, in the claimed combination,

6. As in claim 24: a jump starting device comprising among other patentable features, "...a power switch or switch circuit connected in circuit with the power supply and the positive and negative battery connectors, the power switch or switch circuit configured to switch power on from the power supply to boost or charge the depleted or discharged battery when connected between the positive and negative battery connectors; a USB input connector; and a USB charge circuit electrically connecting the USB input connector to the power supply, the USB charge

circuit comprising a DC-DC converter configured to upconvert voltage from the USB input connector to the power supply”.

7. Claims 25-79 depend either directly or indirectly from claim 24 and therefore are allowed for the same reasons.

8. As in claim 80: A jump starting device comprising among other patentable features, “...a power switch or switch circuit in circuit with the power supply and the positive and negative battery connectors, the power switch or switch circuit configured to switch power on from the power supply to boost or charge the depleted or discharged battery when connected between the positive and negative battery connectors; a USB input connector; a USB charge circuit electrically connecting the USB input connector to the power supply, the USB charge circuit configured to up-convert voltage from a USB charger power source connected to the USB input connector to the power supply using a DC-DC converter; a USB output connector; and a USB output circuit electrically connecting the power supply to the USB output connector”.

Citation of Prior Art

9. For a list of related prior art references not mentioned above but disclose related apparatus or method, see Forms PTO-892 previously cited in the prosecution history.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M'BAYE DIAO whose telephone number is (571)272-6127. The examiner can normally be reached M-F; 9:00AM-6:30PM.

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

M'BAYE DIAO
Primary Examiner
Art Unit 2859

/M BAYE DIAO/
Primary Examiner, Art Unit 2859
December 12, 2022

<i>Search Notes</i> 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

CPC - Searched*		
Symbol	Date	Examiner
B60L53/14 H02J7/342 H02J7/0047 H02J7/0034 H02J7/0029 H02J1/122 H02J7/00 H02J7/0048 H02J7/00302 H02J7/00309 H02J7/00306 Y02T90/14 Y02T10/7072 Y02T10/70 H02J2310/46	08/31/2021	MD

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
320	105	08/31/2021	MD

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

/M BAYE DIAO/ Primary Examiner, Art Unit 2859	
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<i>Search Notes</i> 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

Search Notes		
Search Notes	Date	Examiner
SEARCH(SEARCH Notes Attached)	08/31/2021	MD
Inventor Name and Assignee Search (SEARCH).	08/31/2021	MD
Parent Applications Noted.	08/31/2021	MD
IPR2018-00503 Reviewed Petition for Inter Partes Review of U.S. Patent No. 9,007,015.	08/31/2021	MD
IPR2020-00944 Reviewed Petition for Inter Partes Review of U.S. Patent No. 9,007,015.	08/31/2021	MD
IPR2020-01387 Reviewed Petition for Inter Partes Review of U.S. Patent No. 9,007,015.	08/31/2021	MD
IPR2021-00309 Reviewed Petition for Inter Partes Review of U.S. Patent No. 9,007,015.	08/31/2021	MD
(307/150 Text Search Only – see attached Search Printout).	08/31/2021	MD
IP.com PAT and NPL Search Conducted.	08/31/2021	MD
Updated Search Above.	03/10/2022	MD
Dialog ProQuest Search Conducted.	03/10/2022	MD
Updated Search Above.	08/04/2022	MD
Updated Search Above.	11/10/2022	MD
MLTD and Similarity Searches performed.	11/10/2022	MD
Updated Search Above.	12/12/2022	MD

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	See attached text.	12/12/2022	MD

/M BAYE DIAO/ Primary Examiner, Art Unit 2859	
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OK TO ENTER: /M.D/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**INVENTOR:** Jonathan Lewis Nook**CONFIRMATION NO.:** 1056**APPLICATION NO.:** 16/820,040**GROUP ART UNIT:** 2859**FILING DATE:** March 16, 2020**EXAMINER:** Diao, M Baye**TITLE:****DOCKET NO.:** 014710-0137-999PORTABLE VEHICLE BATTERY JUMP
START APPARATUS WITH SAFETY
PROTECTION**AMENDMENT IN REPLY TO**
OFFICE ACTION OF NOVEMBER 16, 2022Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sirs:

This is in response to the Office Action issued November 16, 2022.

Reconsideration and allowance of Applicant's claim is requested in view of the
amendments and remarks provided herein.**Amendments to the claims** are provided on the listing of the claims which begins
on page **2**.**Remarks** begin on page **11** of this paper.

<i>Index of Claims</i> 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	08/31/2021	03/10/2022	08/04/2022	11/10/2022	12/12/2022				
	1	-	-	-	-	-				
	2	-	-	-	-	-				
	3	-	-	-	-	-				
	4	-	-	-	-	-				
	5	-	-	-	-	-				
	6	-	-	-	-	-				
	7	-	-	-	-	-				
	8	-	-	-	-	-				
	9	-	-	-	-	-				
	10	-	-	-	-	-				
	11	-	-	-	-	-				
	12	-	-	-	-	-				
	13	-	-	-	-	-				
	14	-	-	-	-	-				
	15	-	-	-	-	-				
	16	-	-	-	-	-				
	17	-	-	-	-	-				
	18	-	-	-	-	-				
	19	-	-	-	-	-				
	20	-	-	-	-	-				
	21	-	-	-	-	-				
	22	-	-	-	-	-				
	23	-	-	-	-	-				
1	24	✓	✓	✓	✓	=				
2	25	✓	✓	✓	✓	=				
3	26	✓	✓	✓	✓	=				
4	27	✓	✓	✓	✓	=				
5	28	✓	✓	✓	✓	=				
6	29	✓	✓	✓	✓	=				
7	30	✓	✓	✓	✓	=				
10	31	✓	✓	✓	✓	=				
11	32	✓	✓	✓	✓	=				
12	33	✓	✓	✓	✓	=				
13	34	✓	✓	✓	✓	=				
14	35	✓	✓	✓	✓	=				
15	36	✓	✓	✓	✓	=				
17	37	✓	✓	✓	✓	=				
16	38	✓	✓	✓	✓	=				
19	39	✓	✓	✓	✓	=				
20	40	✓	✓	✓	✓	=				
18	41	✓	✓	✓	✓	=				
21	42	✓	✓	✓	✓	=				

<i>Index of Claims</i> 	Application/Control No. 16/820,040	Applicant(s)/Patent Under Reexamination NOOK et al.
	Examiner M'BAYE DIAO	Art Unit 2859

CLAIM		DATE									
Final	Original	08/31/2021	03/10/2022	08/04/2022	11/10/2022	12/12/2022					
22	43	✓	✓	✓	✓	=					
23	44	✓	✓	✓	✓	=					
24	45	✓	✓	✓	✓	=					
25	46	✓	✓	✓	✓	=					
26	47	✓	✓	✓	✓	=					
27	48	✓	✓	✓	✓	=					
28	49	✓	✓	✓	✓	=					
29	50	✓	✓	✓	✓	=					
30	51	✓	✓	✓	✓	=					
31	52	✓	✓	✓	✓	=					
32	53	✓	✓	✓	✓	=					
37	54	✓	✓	✓	✓	=					
38	55	✓	✓	✓	✓	=					
39	56	✓	✓	✓	✓	=					
42	57	✓	✓	✓	✓	=					
43	58	✓	✓	✓	✓	=					
44	59	✓	✓	✓	✓	=					
33	60	✓	✓	✓	✓	=					
34	61	✓	✓	✓	✓	=					
45	62	✓	✓	✓	✓	=					
46	63	✓	✓	✓	✓	=					
40	64	✓	✓	✓	✓	=					
41	65	✓	✓	✓	✓	=					
47	66	✓	✓	✓	✓	=					
35	67	✓	✓	✓	✓	=					
36	68	✓	✓	✓	✓	=					
48	69	✓	✓	✓	✓	=					
49	70	✓	✓	✓	✓	=					
50	71		✓	✓	✓	=					
8	72			✓	✓	=					
9	73			✓	✓	=					
51	74			✓	✓	=					
52	75			✓	✓	=					
53	76			✓	✓	=					
54	77			✓	✓	=					
55	78			✓	✓	=					
56	79			✓	✓	=					
57	80			✓	✓	=					



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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
16/820,040	03/16/2020	2859	2635	054985-000055-US-02-02	47	1

20583
Jones Day
250 Vesey Street
New York, NY 10281-1047

CONFIRMATION NO. 1056
CORRECTED FILING RECEIPT



0000000137103840

Date Mailed: 12/29/2022

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)

Jonathan Lewis NOOK, Gates Mills, OH;
William Knight NOOK, Shaker Heights, OH;
James Richard STANFIELD, Glendale, AZ;
Derek Michael UNDERHILL, Tempe, AZ;

Applicant(s)

THE NOCO COMPANY, Glenwillow, OH;

Assignment For Published Patent Application

THE NOCO COMPANY, Glenwillow, OH

Power of Attorney: The patent practitioners associated with Customer Number 20583

Domestic Priority data as claimed by applicant

This application is a CON of 15/691,884 08/31/2017 PAT 10604024
which is a CON of 14/619,655 02/11/2015 PAT 9770992
which is a DIV of 14/325,938 07/08/2014 PAT 9007015
which is a CON of PCT/US14/45434 07/03/2014

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 03/30/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/820,040**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

JUMP STARTING DEVICE WITH USB

Preliminary Class

320

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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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Jonathan Lewis Nook	Confirmation No.:	1056
Serial No.:	16/820,040	Art Unit:	2859
Filed:	March 16, 2020	Examiner:	Diao, M Baye
For:	PORTABLE VEHICLE BATTERY JUMP START APPARATUS WITH SAFETY PROTECTION	Attorney Docket No.:	014710-0137-999

TRANSMITTAL LETTER

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

Dear Sirs:

Per the January 3, 2023 discussion with Examiner Diao, submitted herewith are revised IDS's originally submitted on July 23, 2020 and June 15, 2022. These revised IDS's contain non-truncated Non-Patent Literature descriptions.

If the Office has any questions, or believes for any reason that personal communication will expedite prosecution of this application, the Office is hereby invited to telephone the undersigned at the number provided below.

Respectfully submitted,

Date: January 3, 2023

/Joseph M. Sauer/
Joseph M. Sauer (Reg. No. 47,919)
JONES DAY
901 Lakeside Avenue
Cleveland, Ohio 44114
(216) 586-7506

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16820040
	Filing Date		2020-03-16
	First Named Inventor	NOOK	
	Art Unit	2859	
	Examiner Name	DIAO	
	Attorney Docket Number	054985-000055-US-02-02	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	4740740		1988-04-26	TARANTO et al.	
	2	5831350		1998-11-03	McCONKEY et al.	
	3	6057667		2000-05-02	MILLS	
	4	6144110		2000-11-07	MATSUDA et al.	
	5	6160381		2000-12-12	PETERZELL	
	6	6249106		2001-06-19	TURNER et al.	
	7	6271605		2001-08-07	CARKNER et al.	
	8	6774607		2004-08-10	MOSENER et al.	

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Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

9	6856764		2005-02-15	HIGUMA	
10	6919704		2005-07-19	HEALEY	
11	7339347		2008-03-04	ELDER et al.	
12	7508171		2009-03-24	CARRIER et al.	
13	7579811		2009-08-25	SATL et al.	
14	7514900		2009-04-07	SANDER et al.	
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Attorney Docket Number		054985-000055-US-02-02

20	8125181		2012-02-28	GREGG et al.	
21	8686688		2014-04-01	HAN et al.	
22	8786247		2014-07-22	ISHINO et al.	
23	8994327		2015-03-31	KUSCH et al.	
24	9007023		2015-04-14	DAO	
25	9263717		2016-02-16	NAKANO et al.	
26	9263907		2016-02-16	RICHARDSON et al.	
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29	9871392		2018-01-16	DURANDO et al.	
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Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

	31	10328806		2019-06-25	WANG et al.
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	1	20010003827		2001-11-08	RESCH et al.	
	2	20020007500		2002-06-20	FRIDMAN et al.	
	3	20020007699		2002-06-20	MOUISSIE	
	4	20020121877		2002-09-05	SMITH et al.	
	5	20030096158		2003-05-22	TAKANO et al.	
	6	20050082833		2005-04-21	SODEMANN et al.	
	7	20050162124		2005-07-28	BERTNESS et al.	
	8	20090218988		2009-09-03	RICHARDSON et al.	

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Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

9	20090236859	2009-09-24	MCFADDEN
10	20090253312	2009-10-08	DETTTER et al.
11	20100013302	2010-01-21	HOWELL et al.
12	20100055546	2010-03-04	ELDER et al.
13	20100181959	2010-07-22	GIBBS et al.
14	20100283623	2010-11-11	BAXTER et al.
15	20110127947	2011-06-02	HUNTER et al.
16	20110279089	2011-11-17	YEO
17	20120013189	2012-01-19	JENKINS
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Attorney Docket Number	054985-000055-US-02-02	

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22	20130154544	2013-06-20	YOKOYAMA et al.
23	20150012174	2015-01-08	KIM et al.

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	1	105457	CA	S	2005-06-21	SYMBOL TECHNOLOGIES INC		
	2	107977	CA	A	1907-10-15	EMPIRE LIGHT LTD; MIESS JACOB HENRY		
	3	118796	CA	S	2008-01-15	XANTREX INT		
	4	137883	CA	S	2011-06-08	CHERVON LTD		
	5	145036	CA	S	2013-02-11	TECHTRONIC OUTDOOR PROD TECH		

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16820040	
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	First Named Inventor	NOOK		
	Art Unit	2859		
	Examiner Name	DIAO		
	Attorney Docket Number	054985-000055-US-02-02		

6	2000/024108	WO	A1	2000-04-27	CENTURY MFG. CO.		
7	2005/038952	WO	A2	2005-04-28	BLACK & DECKER INC.	corresponds to EP 1673828	
8	6997198	AU	A	1998-07-30	CLORE AUTOMOTIVE LLC		
9	2015-115979	JP	A	2015-06-22	ASIA BRIGHT IND HONG KONG CO LTD; SFJ CORP	English Abstract attached	×
10	104118374	CN	A	2014-10-29	HUIZHOU HUAYITONG TECHNOLOGY CO LTD	English Abstract attached	☒
11	201947042	CN	U	2011-08-24	SHENZHEN SIBEISHENG ELECTRONIC TECHNOLOGY CO LTD	English Abstract attached	☒
12	203211234	CN	U	2013-09-25	HUIZHOU HUAYITONG TECHNOLOGY CO LTD	English translation attached	☒
13	203504235	CN	U	2014-03-26	LUO WUQIANG	English Abstract attached	☒
14	203522157	CN	U	2014-04-02	SHENZHEN SBASE ELECTRONICS TECHNOLOGY CO LTD	English Abstract attached	☒

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Art Unit	2859
Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

1	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 08/14/19, The NOCO Company, Inc. v. Shenzhen Lianfa Tong Technology Co., Ltd. and Shenzhen Meditek Tong Technology Co., Ltd., 1 page.
2	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 08/14/19, The NOCO Company, Inc. v. Sictec Instruments Company Limited, 1 page.
3	Copy of Decision Granting Institution of Inter Partes Review, Patent Number 9007015, Application 14/325938 on 11/12/20, IPR2020-00944, 70 pages.
4	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Shenzhen Yike Electronics, 1 page.
5	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Guangzhou Unique Electronics Co., Ltd. and Sui Cheng Limited, 1 page.
6	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Zhejiang Quingyou Electronic Commerce Co., Ltd., 1 page.
7	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Shenzhen GOOLOO E-Commerce Co., Ltd., 1 page.
8	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Nice Team Enterprise Limited, 1 page.
9	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Aukey Technology Co., Ltd., 1 page.
10	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 03/16/20, The NOCO Company, Inc. v. Nekteck, Inc., 1 page.
11	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 03/13/20, The NOCO Company, Inc. v. Medcursor, Inc., 1 page.

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Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

12	Australian Patent Opposition #2, Notice of Opposition, Australian Patent Application No. 2019201559, Brown & Watson International Pty Ltd., February 21, 2020, 1 page.
13	The offering for sale and sale by ATD Tools, Inc of a product identified as the ADT 5900 Jump Starter prior to July 2014.
14	Australian Patent Opposition #3, Notice of Opposition, Australian Patent Application No. 2020201223, Brown & Watson International Pty Ltd., August 7, 2020.
15	German Patent Opposition. German Patent Application No. 102014114997
16	D21 advertisement brochure of the opponent transmitted on 12-22-2013.
17	D22 advertisement brochure of the opponent transmitted on 04-23-2014.
18	D23 SGS test report relating to jump start devices of the opponent dated 04-21-2014.
19	D24 TWM417714U1
20	D24a machine translation of D24
21	D25 data sheet of TOPCOMTECHNOLOGY CO., LTD., for the product "Universal Power Bank", dated November 15, 2011.
22	D28 affidavit of the manager of the requesting party, 2013.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16820040
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	Examiner Name	DIAO
	Attorney Docket Number	054985-000055-US-02-02

23	German Nullity Action, German Patent Application No. 202014011347.5
24	THE NOCO COMPANY v. RING AUTOMOTIVE LIMITED, HP-2020-000022, Grounds of Invalidity, In the High Court of Justice Business And Property Courts of England and Wales Intellectual Property List (ChD) Patents Court, 2 pages
25	the making available to the public by supply, description and/or use of the HP2200 jump starter described in the manual dated August 2013 at Annex A Before 3 July 2014 including in and after August 2013('HP2200') (cited on page 1 of reference THE NOCO COMPANY v. RING AUTOMOTIVE LIMITED, HP-2020-000022, Grounds of Invalidity).
26	the Carku E-Power 21 device in so far as it is established to have been made available to the public in the Eariler Proceedings ('Carku E-Power 21) (cited on page 2 of reference THE NOCO COMPANY v. RING AUTOMOTIVE LIMITED, HP-2020-000022, Grounds of Invalidity)
27	THE NOCO COMPANY v. SHENZHEN VALUELINK E-COMMERCE CO., LTD, Case No. 1:17-cv-02210, Defendants' Amended Final Invalidity and Unenforceability Contents, 9/23/2019, 5 pages.; The Powerall PBJS12000RD Jump Starter ("Powerall Jump Starter"), offered For sale by Gryphon Mobile Electronics at least as early as 11/5/2013; The Lightning 12V Jump Starter ("Lightning Jump Starter), offered for sale by Pilot, Inc. at least as early as 3/2014; The L3 Model Jump Starter, offered for sale by Shenzhen Tsevie Company as Early as 5/19/2019.
28	THE NOCO COMPANY, INC. v. SHENZHEN CHANGXINYANG TECHNOLOGY CO., LTD., 1:17-cv-02209, Def Amd Final Invalidity and Unenforceability Contents, In the US District Court of Northern Ohio, Eastern District. The Powerall PBJS12000RD Jump Starter, offered For sale by Gryphon Mobile Electronics at least as early 11/5/13; The Lightning 12V Jump Starter, offered for sale by Pilot, Inc. at least as early 3/14; The L3 Model Jump Starter, offered for sale by Shenzhen Tsevie Co as Early 5/19/19.
29	Notification of Material filed under Section 27, Australian Government IP Australia, November 8, 2016 (3 pages); Declaration of Sheridan Lee (8 pages); Annexure SL-1 (8 pages); Annexure SL-2 (10 pages); Annexure SL-3 (9 pages); Annexure SL-4 (18 pages); Annexure SL-5, JP 3185027 (14 pages); Annexure SL-6 of English Translation of JP 3185027 (17 pages) and US 2004/0130298 (14 pages).
30	This Portable USB Charger Battery Pack Can Also Jump Start Your Car (viewed on Internet on October 27, 2020] <URL: https://www.howto.geek.com/179499/this-portable-usb-charger-battery-pack-can-also-jump-start-your-car/ >, published on January 13, 2014.
31	Clore Automotive, LLC, U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF CLORE AUTOMOTIVE, LLC TO THE AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, pages 150-151.
32	Deltran USA, LLC, U.S. International Trade Commission, Investigation No. 337-TA-1256 DELTRAN USA, LLC'S RESPONSE TO THE AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, pages 196-219.
33	Schumaker Electric Corporation and Schumacher Power Technology (Binhai) Co. Ltd., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF SCHUMACHER ELECTRIC CORPORATON AND SCHUMACHER POWER TECHNOLOGY (BINHAI) CO. LTD., TO THE COMPLAINT OF THE NOCO COMPANY UNDER SECTION 337 OF THE TARIFF ACT OF 1930 AND NOTICE OF INVESTIGATION, pages 180-184.

**INFORMATION DISCLOSURE
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Filing Date	2020-03-16
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Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

34	Best Buy Co., Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF BEST BUY CO., INC. TO THE FIRST AMENDED COMPLAINT AND THE NOTICE OF INVESTIGATION, pages 69-71.
35	Guangdong Boltpower Energy Co, Ltd., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF GUANGDONG BOLTPOWER ENERGY CO., LTD. TO THE FIRST AMENDED COMPLAINT AND THE NOTICE OF INVESTIGATION, pages 73-74.
36	Winplus North America, Inc. U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF WINPLUS NORTH AMERICA, INC. TO THE AMENDED COMPLAINT AND THE COMMISSIONER'S NOTICE OF INVESTIGATION, Exhibit B, pages 1-5.
37	Autozone, Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONDENTS AUTOZONE, INC. AND BEST PARTS, INC.'S RESPONSE TO THE AMENDED COMPLAINT AND NOTICE OF INVESTIGATION.
38	Shenzhen Carku Tech Co., Ltd., 70MAI Co., Ltd., Antigravity Batteries LLC, Gooloo Tech LLC, Great Neck Saw Mfrs, Inc., Horizon Tool, Inc., MATCO Tools Corp, Nekteck, Inc., Paris Corporation, Powermax Battery (U.S.A.), Inc., and Shenzhen Gooloo E-Commerce Co., Ltd. U.S. ITC, Investigation No. 337-TA-1256, RESPONSE TO THE AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, Exhibit B, pages 1-3.
39	Walmart Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF WALMATR INC., TO THE COMPLAINT OF THE NOCO COMPANY UNDER SECTION 337 OF THE TARIFF ACT OF 1930 AND NOTICE OF INVESTIGATION
40	Smartech Products, Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONDENT SMARTECH PRODUCTS, INC.'S RESPONSE TO THE COMPLAINT UNDER 337 OF THE TARIFF ACT OF 1930, AS AMENDED, AND NOTICE OF INVESTIGATION, pages 98-102.
41	Halo2Cloud, LLC and ZAGG Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF HALO2CLOUD, LLC AND ZAGG INC TO THE SECOND AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, pages 141-142.
42	QVC, Inc., U.S. International Trade Commission, Investigation No. 337-1256, RESPONSE OF QVC, INC. TO THE SECOND AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, pages 144-145.
43	In re Certain Portable Battery Jumpstarters and Components Thereof, 3370TA01256, United States International Trade Commission (March 17, 2021); Respondents Initial Invalidity Contentions, 14pages
44	Fairchild MC78XX/LM78XX/MC78XXA 3-Terminal 1A Positive Voltage Regulator

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(Not for submission under 37 CFR 1.99)

Application Number	16820040
Filing Date	2020-03-16
First Named Inventor	NOOK
Art Unit	2859
Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

45	Xysemi XR3403
46	Texas Instruments LM2621
47	USB Implementers Forum, Inc., Battery Charging Specification, Revision 1.1
48	USB Power Delivery Specification 1.0, July 16, 2012, Exhibit 1045

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/William L. Klima/	Date (YYYY-MM-DD)	2022-06-15
Name/Print	William L. Klima	Registration Number	32422

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APPLICATION #
16/820,040

RECEIPT DATE / TIME
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ATTORNEY DOCKET #
054985-000055-US-02-02

Title of Invention

JUMP STARTING DEVICE WITH USB

Application Information

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

PATENT # -

CONFIRMATION # 1056

FILED BY Erin Rosenfelder

PATENT CENTER # 61377114

FILING DATE 03/16/2020

CUSTOMER # 20583

FIRST NAMED INVENTOR Jonathan Lewis NOOK

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Joseph Sauer

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
14710-137-999_TransRevisedIDS.pdf	1	Transmittal Letter	131 KB
36539201.1 IDS_TOBEFILED____02-02_revised.pdf	10	Information Disclosure Statement (IDS) Form (SB08)	1021 KB
42455400.1 2022-06-15 - IDS - 2of2 - 16820040 - 05_Revised.pdf	14	Information Disclosure Statement (IDS) Form (SB08)	1024 KB

Digest

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14710-137- 999_TransRevisedIDS.pdf	BCAED80046BA033F105A259EBA306C649439C51A050DAA4B6 7AD4CDB6422BBA573BD5692FCE38C8E4DCB73E67D5DE7A3 06B21D1500D67E78876642BE4B94C263
36539201.1 IDS__TOBEFILED____02- 02_revised.pdf	BC38689E575494371494D199128C7AD77BB51D295ABECFBEE D986C3A684709DDEBC22EB45F43F8BC9F063A73132C5CCAE 75CD27AA9945214BCBDE6696FBD2934
42455400.1 2022-06-15 - IDS - 2of2 - 16820040 - 05_Revised.pdf	74D12DC31D9BFA11077840FBA695FCEAF7E9AE139C86F7078 22718D5513693CA8B43AC4AF3AA2050459611895897E49C98F 7128B4FFFAAC580629361DA7BCFF3C

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	16820040
Filing Date	2020-03-16
First Named Inventor	Jonathan Lewis NOOK
Art Unit	2859
Examiner Name	M. Baye DIAO
Attorney Docket Number	054985-000055-US-02-02

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	3590357		1971-06-29	REID	
	2	3638108		1972-01-25	CHANNING	
	3	5194799		1993-03-16	TOMANTSCHGER	
	4	5281904		1994-01-25	TOMKINS	
	5	5319298		1994-06-07	WANZONG	
	6	5820407		1998-10-13	MORSE et al.	
	7	6344733		2002-07-30	CRASS	
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9	6650086	2003-11-18	CHANG
10	6679212	2004-01-20	KELLING
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16	9243601	2016-01-26	REICHOW
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18	9809183	2014-03-27	WEFLEN
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	20	10328808		2019-06-25	NOOK ET AL.	
	21	10604024		2020-03-31	NOOK ET AL.	
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	1	20010025618	A1	2001-10-04	KELLING	
	2	20040066168	A1	2004-04-08	GEORGE	
	3	20040130298	A1	2004-07-08	KRIEGER	
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	6	20040239290	A1	2004-12-02	KRIEGER	

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7	20050116688	A1	2005-06-02	YIN	
8	20060176011	A1	2006-08-10	LUI	
9	20060220610	A1	2006-10-05	SOLBERG	
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14	20130162029	A1	2013-06-27	REICHOW	
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19	20150340907	A1	2015-11-26	LEI

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	1	2011/113734	WO		2011-09-22	REICHOW		
	2	2012/036556	WO		2012-03-22	EIDSVIG		
	3	2012/080996	WO		2012-06-21	TRACY		
	4	2014/106407	WO		2014-10-07	LEI		
	5	0616409	EP		2014-09-07	HERBERT		
	6	103066662	CN		2013-04-24	LEI	English abstract attached	×

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	2	Copy of Exhibit 1009, www.electronicshub.org	
	3	Copy of Exhibit 1010, USB Battery Charging 1.2 Compliance Plan	
	4	Copy of the Petition for Inter Partes Review of U.S. Patent No. 9,007,015; IPR 2020-00944, filed May 14, 2020, 99 pages	
	5	Copy of Exhibit 1012, Model: Epower-20B brochure, 1 page	
	6	Copy of Exhibit 1013, Model: Epower-21 brochure, 1 page	
	7	Copy of Exhibit 1015, Fairchild Semiconductor brochure, MC78XX/LM78XX/MC78XXA, 28 pages	
	8	Copy of Report on the filing or determination of an action regarding a patent or trademark, filed 10/19/17, The NOCO Company, Inc. v. Shenzhen Valuelink E-Commerce Co., Ltd., U.S. District Court for the Northern District of Ohio, Eastern Division, 1 page.	
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13	Copy of PTAB notice regarding petition filed in Patent Number 9007015, Application Number 14/325938, filed on 01/15/2018, IPR2018-00503, 1 page
14	Copy of Report on the filing or determination of an action regarding a patent or trademark, filed 09/13/18, The NOCO Company, Inc. v. Halo2 Cloud, LLC, QVC, Inc., U.S. District Court Delaware, 1 page.
15	Copy of Notice of Filing Date Accorded to Petition and Time for Filing Patent Owner Preliminary Response, mailed May 21, 2020, Shenzhen Carku Technology Co., Ltd. v. The NOCO Company, IPR2020-00944, Patent 9,007,015, 4 pages.
16	International Search Report in corresponding PCT/US2014/045434, November 3, 2014.
17	Australian Patent Opposition #1, Australian Patent Application No. 2016269555, Statement of Grounds of Particulars, Brown & Watson International Pty Ltd., June 6, 2019, 6 pages; particular (e), the offering for sale and sale by Asia Bright Industrial (Hong Kong) Co, Ltd. of products identified as the JPS Jump Starter and the JPR Jump Starter prior to July 2014.
18	Australian Patent Opposition #1, Australian Patent Application No. 2016269555, Evidence in Support, filed September 6, 2019, 24 pages.
19	Australian Patent Opposition #1, Australian Patent Application No. 2016269555, Evidence in Support – Exhibits, filed September 6, 2019, 166 pages; Annexure MD-1, early specification sheets for “the BW Jumpstarter”, 4 pages; Annexure MD-2, product manual for “the BW Jumpstarter”, PROJECTA; “2x22 Amp Hour High Performance Jumpstarter”; 2013; 20 pages.
20	Australian Patent Opposition #2, Australian Patent Application No. 2019201559, Statement of Grounds and Particulars, filed May 21, 2020, 8 pages.
21	THE NOCO COMPANY v. DELTONA TRANSFORMER CORPORATION and DELTRAN USA, LLC, Defendant Deltran USA, LLC’s Invalidity Contentions, In the United States District Court for the Middle District of Florida, Orlando Division, USB Implementers Forum, Inc., Battery Charging Specification, Revision 1.1, 04-15-2009 on page 8, Prior Art Offered for Sale or Publicly Used or Known on pages 8-10, MICRO-START/PPS, E-Power, Battery Tender Power Pack, PowerAll, and Electromate 400 on page 10; 141 pages.

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22	THE NOCO CO., INC. v. SMARTECH PRODUCTS, INC., et al., Smartech, Inc.'s Invalidity and Unenforceability Contents, Bestek 2400A Peak Current Portable Car Jump Starter Power Bank with 1000mAh Capacity (SMARTECH 00062-00069)("Bestek") on page 2; HALO 7800 mAh Portable Charger for Cell Phones & Tablets (SMARTECH 00070-00071)("HALO") on page 2; Schumacher Lithium Iron Jump Starter – SL1 Red Fuel (SMARTECH 00072-00073)("Schumacher") on page 2, filed June 19, 2019, 8 pages.
23	NOCO CO. v. SHENZHEN DIKA NA'ER E-COMMERCE (1:17-cv-02282); v. SHENZHEN CHANGXINYANG TECH. CO., LTD (1:17-cv-02209); v. SHENZHEN VALUELINK E-COMMERCE CO., LTD (1:17-cv-02210), Defs' Amd Final Invalidity & Unenforce. Contents, The Powerall PBJ512000RD Jump Starter, by Gryphon Mobile Electronics as early as Nov. 5, 2013, The Lightning 12V Jump Starter, by Pilot, Inc. as early as Mar. 2014, and The L3 Model Jump Starter, by Shenzhen Tsevie Co. at least as early as May 19, 2019, on page 2, Sept. 23, 2019, 5 pages.

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☒ A certification statement is not submitted herewith.

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Signature	/William L. Klima/	Date (YYYY-MM-DD)	2020-07-23
Name/Print	William L. Klima	Registration Number	32422

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: 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.
16/820,040	03/16/2020	Jonathan Lewis NOOK	054985-000055-US-02-02	1056
20583	7590	01/09/2023	EXAMINER	
Jones Day			DIAO, M BAYE	
250 Vesey Street			ART UNIT	PAPER NUMBER
New York, NY 10281-1047			2859	
			NOTIFICATION DATE	DELIVERY MODE
			01/09/2023	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):

japarker@jonesday.com
ncgeorge@jonesday.com
wtokmakidis@jonesday.com

<i>Corrected</i> <i>Notice of Allowability</i>	Application No. 16/820,040	Applicant(s) NOOK et al.			
	Examiner M'BAYE DIAO	Art Unit 2859	AIA (FITF) Status Yes		
-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-- All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. ☒ This communication is responsive to <u>IDS filed on 01/03/2023</u>. ☐ 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 <u>See Continuation Sheet</u>. As a result of the allowed claim(s), you may be eligible to benefit from the Patent Prosecution Highway program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov. 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). Certified copies: a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. _____. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____. Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>01/03/2023</u>. 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____. 5. ☐ Examiner's Amendment/Comment 6. ☐ Examiner's Statement of Reasons for Allowance 7. ☒ Other <u>RUSH of 12/28/2022</u>. <table border="1"><tr><td>/M BAYE DIAO/ Primary Examiner, Art Unit 2859</td><td>01/04/2023</td></tr></table>				/M BAYE DIAO/ Primary Examiner, Art Unit 2859	01/04/2023
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Continuation of 3. The allowed claim(s) is/are: 24-80 (renumbered 1-57)

Doc code: IDS
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Application Number	16820040
Filing Date	2020-03-16
First Named Inventor	Jonathan Lewis NOOK
Art Unit	2859
Examiner Name	M. Baye DIAO
Attorney Docket Number	054985-000055-US-02-02

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	2	3638108		1972-01-25	CHANNING	
	3	5194799		1993-03-16	TOMANTSCHGER	
	4	5281904		1994-01-25	TOMKINS	
	5	5319298		1994-06-07	WANZONG	
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	8	6424158		2002-07-23	KLANG	

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/M.D/	9	6650086		2003-11-18	CHANG	
	10	6679212		2004-01-20	KELLING	
	11	6759833		2004-07-06	CHEN	
	12	7345450		2008-03-18	KRIEGER et al.	
	13	7893657		2011-02-22	CHAVAKULA	
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	15	9153978		2015-10-06	READE	
	16	9243601		2016-01-26	REICHOW	
	17	9525297		2016-12-20	WANG	
	18	9809183		2014-03-27	WEFLEN	
	19	9954391		2018-04-24	LEI	

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/M.D/	20	10328808		2019-06-25	NOOK ET AL.	
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	3	20040130298	A1	2004-07-08	KRIEGER	
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	6	20040239290	A1	2004-12-02	KRIEGER	

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/M.D/	7	20050116688	A1	2005-06-02	YIN	
	8	20060176011	A1	2006-08-10	LUI	
	9	20060220610	A1	2006-10-05	SOLBERG	
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	14	20130162029	A1	2013-06-27	REICHOW	
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	16	20140210399	A1	2014-07-31	URSCHEL	
	17	20140368155	A1	2013-12-18	CHEN	

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	2	2012/036556	WO		2012-03-22	EIDSVIG		
	3	2012/080996	WO		2012-06-21	TRACY		
	4	2014/106407	WO		2014-10-07	LEI		
	5	0616409	EP		2014-09-07	HERBERT		
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	2	Copy of Exhibit 1009, www.electronicshub.org	
	3	Copy of Exhibit 1010, USB Battery Charging 1.2 Compliance Plan	
	4	Copy of the Petition for Inter Partes Review of U.S. Patent No. 9,007,015; IPR 2020-00944, filed May 14, 2020, 99 pages	
	5	Copy of Exhibit 1012, Model: Epower-20B brochure, 1 page	
	6	Copy of Exhibit 1013, Model: Epower-21 brochure, 1 page	
	7	Copy of Exhibit 1015, Fairchild Semiconductor brochure, MC78XX/LM78XX/MC78XXA, 28 pages	
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	13	Copy of PTAB notice regarding petition filed in Patent Number 9007015, Application Number 14/325938, filed on 01/15/2018, IPR2018-00503, 1 page
	14	Copy of Report on the filing or determination of an action regarding a patent or trademark, filed 09/13/18, The NOCO Company, Inc. v. Halo2 Cloud, LLC, QVC, Inc., U.S. District Court Delaware, 1 page.
	15	Copy of Notice of Filing Date Accorded to Petition and Time for Filing Patent Owner Preliminary Response, mailed May 21, 2020, Shenzhen Carku Technology Co., Ltd. v. The NOCO Company, IPR2020-00944, Patent 9,007,015, 4 pages.
	16	International Search Report in corresponding PCT/US2014/045434, November 3, 2014.
	17	Australian Patent Opposition #1, Australian Patent Application No. 2016269555, Statement of Grounds of Particulars, Brown & Watson International Pty Ltd., June 6, 2019, 6 pages; particular (e), the offering for sale and sale by Asia Bright Industrial (Hong Kong) Co, Ltd. of products identified as the JPS Jump Starter and the JPR Jump Starter prior to July 2014.
	18	Australian Patent Opposition #1, Australian Patent Application No. 2016269555, Evidence in Support, filed September 6, 2019, 24 pages.
	19	Australian Patent Opposition #1, Australian Patent Application No. 2016269555, Evidence in Support – Exhibits, filed September 6, 2019, 166 pages; Annexure MD-1, early specification sheets for “the BW Jumpstarter”, 4 pages; Annexure MD-2, product manual for “the BW Jumpstarter”, PROJECTA; “2x22 Amp Hour High Performance Jumpstarter”; 2013; 20 pages.
	20	Australian Patent Opposition #2, Australian Patent Application No. 2019201559, Statement of Grounds and Particulars, filed May 21, 2020, 8 pages.
	21	THE NOCO COMPANY v. DELTONA TRANSFORMER CORPORATION and DELTRAN USA, LLC, Defendant Deltran USA, LLC's Invalidity Contentions, In the United States District Court for the Middle District of Florida, Orlando Division, USB Implementers Forum, Inc., Battery Charging Specification, Revision 1.1, 04-15-2009 on page 8, Prior Art Offered for Sale or Publicly Used or Known on pages 8-10, MICRO-START/PPS, E-Power, Battery Tender Power Pack, PowerAll, and Electromate 400 on page 10; 141 pages.

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	Art Unit		2859
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/M.D/	22	THE NOCO CO., INC. v. SMARTECH PRODUCTS, INC., et al., Smartech, Inc.'s Invalidity and Unenforceability Contents, Bestek 2400A Peak Current Portable Car Jump Starter Power Bank with 1000mAh Capacity (SMARTECH 00062-00069)("Bestek") on page 2; HALO 7800 mAh Portable Charger for Cell Phones & Tablets (SMARTECH 00070-00071)("HALO") on page 2; Schumacher Lithium Iron Jump Starter – SL1 Red Fuel (SMARTECH 00072-00073)("Schumacher") on page 2, filed June 19, 2019, 8 pages.
	23	NOCO CO. v. SHENZHEN DIKA NA'ER E-COMMERCE (1:17-cv-02282); v. SHENZHEN CHANGXINYANG TECH. CO., LTD (1:17-cv-02209); v. SHENZHEN VALUELINK E-COMMERCE CO., LTD (1:17-cv-02210), Defs' Amd Final Invalidity & Unenforce. Contents, The Powerall PBJ512000RD Jump Starter, by Gryphon Mobile Electronics as early as Nov. 5, 2013, The Lightning 12V Jump Starter, by Pilot, Inc. as early as Mar. 2014, and The L3 Model Jump Starter, by Shenzhen Tsevie Co. at least as early as May 19, 2019, on page 2, Sept. 23, 2019, 5 pages.

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	2	5831350		1998-11-03	McCONKEY et al.	
	3	6057667		2000-05-02	MILLS	
	4	6144110		2000-11-07	MATSUDA et al.	
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/M.D/	9	6856764		2005-02-15	HIGUMA	
	10	6919704		2005-07-19	HEALEY	
	11	7339347		2008-03-04	ELDER et al.	
	12	7508171		2009-03-24	CARRIER et al.	
	13	7579811		2009-08-25	SATL et al.	
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/M.D/	20	8125181		2012-02-28	GREGG et al.	
	21	8686688		2014-04-01	HAN et al.	
	22	8786247		2014-07-22	ISHINO et al.	
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	27	9287725		2016-03-15	HUFFMAN et al.	
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/M.D/	31	10328806		2019-06-25	WANG et al.	
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	2	20020007500		2002-06-20	FRIDMAN et al.	
	3	20020007699		2002-06-20	MOUISSIE	
	4	20020121877		2002-09-05	SMITH et al.	
	5	20030096158		2003-05-22	TAKANO et al.	
	6	20050082833		2005-04-21	SODEMANN et al.	
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16820040
Filing Date	2020-03-16
First Named Inventor	NOOK
Art Unit	2859
Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

/M.D/	9	20090236859		2009-09-24	MCFADDEN	
	10	20090253312		2009-10-08	DETTTER et al.	
	11	20100013302		2010-01-21	HOWELL et al.	
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	16	20110279089		2011-11-17	YEO	
	17	20120013189		2012-01-19	JENKINS	
	18	20120068662		2012-03-22	DURANDO et al.	
	19	20120139498		2012-06-07	CHANG	

INFORMATION DISCLOSURE
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/M.D/	20	20120169116		2012-07-05	GRAF	
	21	20120299533		2012-11-29	HUFFMAN et al.	
	22	20130154544		2013-06-20	YOKOYAMA et al.	
	23	20150012174		2015-01-08	KIM et al.	

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	1	105457	CA	S	2005-06-21	SYMBOL TECHNOLOGIES INC		
	2	107977	CA	A	1907-10-15	EMPIRE LIGHT LTD; MIESS JACOB HENRY		
	3	118796	CA	S	2008-01-15	XANTREX INT		
	4	137883	CA	S	2011-06-08	CHERVON LTD		
	5	145036	CA	S	2013-02-11	TECHTRONIC OUTDOOR PROD TECH		

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

	Application Number		16820040	
	Filing Date		2020-03-16	
	First Named Inventor		NOOK	
	Art Unit		2859	
	Examiner Name		DIAO	
	Attorney Docket Number		054985-000055-US-02-02	

/M.D/	6	2000/024108	WO	A1	2000-04-27	CENTURY MFG. CO.		
	7	2005/038952	WO	A2	2005-04-28	BLACK & DECKER INC.	corresponds to EP 1673828	
	8	6997198	AU	A	1998-07-30	CLORE AUTOMOTIVE LLC		
	9	2015-115979	JP	A	2015-06-22	ASIA BRIGHT IND HONG KONG CO LTD; SFJ CORP	English Abstract attached	×
	10	104118374	CN	A	2014-10-29	HUIZHOU HUAYITONG TECHNOLOGY CO LTD	English Abstract attached	☒
	11	201947042	CN	U	2011-08-24	SHENZHEN SIBEISHENG ELECTRONIC TECHNOLOGY CO LTD	English Abstract attached	☒
	12	203211234	CN	U	2013-09-25	HUIZHOU HUAYITONG TECHNOLOGY CO LTD	English translation attached	☒
	13	203504235	CN	U	2014-03-26	LUO WUQIANG	English Abstract attached	☒
	14	203522157	CN	U	2014-04-02	SHENZHEN SBASE ELECTRONICS TECHNOLOGY CO LTD	English Abstract attached	☒

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STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	16820040
Filing Date	2020-03-16
First Named Inventor	NOOK
Art Unit	2859
Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

/M.D/	1	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 08/14/19, The NOCO Company, Inc. v. Shenzhen Lianfa Tong Technology Co., Ltd. and Shenzhen Meditek Tong Technology Co., Ltd., 1 page.	
	2	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 08/14/19, The NOCO Company, Inc. v. Sictec Instruments Company Limited, 1 page.	
	3	Copy of Decision Granting Institution of Inter Partes Review, Patent Number 9007015, Application 14/325938 on 11/12/20, IPR2020-00944, 70 pages.	
	4	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Shenzhen Yike Electronics, 1 page.	
	5	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Guangzhou Unique Electronics Co., Ltd. and Sui Cheng Limited, 1 page.	
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	7	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Shenzhen GOOLOO E-Commerce Co., Ltd., 1 page.	
	8	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Nice Team Enterprise Limited, 1 page.	
	9	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 05/28/20, The NOCO Company, Inc. v. Aukey Technology Co., Ltd., 1 page.	
	10	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 03/16/20, The NOCO Company, Inc. v. Nekteck, Inc., 1 page.	
	11	Copy of Report on the Filing or Determination of an Action Regarding a Patent or Trademark, filed 03/13/20, The NOCO Company, Inc. v. Medcursor, Inc., 1 page.	

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	16820040
Filing Date	2020-03-16
First Named Inventor	NOOK
Art Unit	2859
Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

/M.D/	12	Australian Patent Opposition #2, Notice of Opposition,Australian Patent Application No. 2019201559, Brown & Watson International Pty Ltd., February 21, 2020, 1 page.	
	13	The offering for sale and sale by ATD Tools, Inc of a product identified as the ADT 5900 Jump Starter prior to July 2014.	
	14	Australian Patent Opposition #3, Notice of Opposition,Australian Patent Application No. 2020201223, Brown & Watson International Pty Ltd., August 7, 2020.	
	15	German Patent Opposition. German Patent Application No. 102014114997	
	16	D21 advertisement brochure of the opponent transmitted on 12-22-2013.	
	17	D22 advertisement brochure of the opponent transmitted on 04-23-2014.	
	18	D23 SGS test report relating to jump start devices of the opponent dated 04-21-2014.	
	19	D24 TWM417714U1	
	20	D24a machine translation of D24	
	21	D25 data sheet of TOPCOMTECHNOLOGY CO., LTD., for the product "Universal Power Bank", dated November 15, 2011.	
	22	D28 affidavit of the manager of the requesting party, 2013.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		16820040
	Filing Date		2020-03-16
	First Named Inventor	NOOK	
	Art Unit	2859	
	Examiner Name	DIAO	
	Attorney Docket Number	054985-000055-US-02-02	

/M.D/	23	German Nullity Action, German Patent Application No. 202014011347.5
	24	THE NOCO COMPANY v. RING AUTOMOTIVE LIMITED, HP-2020-000022, Grounds of Invalidity, In the High Court of Justice Business And Property Courts of England and Wales Intellectual Property List (ChD) Patents Court, 2 pages
	25	the making available to the public by supply, description and/or use of the HP2200 jump starter described in the manual dated August 2013 at Annex A Before 3 July 2014 including in and after August 2013('HP2200') (cited on page 1 of reference THE NOCO COMPANY v. RING AUTOMOTIVE LIMITED, HP-2020-000022, Grounds of Invalidity).
	26	the Carku E-Power 21 device in so far as it is established to have been made available to the public in the Eariler Proceedings ('Carku E-Power 21') (cited on page 2 of reference THE NOCO COMPANY v. RING AUTOMOTIVE LIMITED, HP-2020-000022, Grounds of Invalidity)
	27	THE NOCO COMPANY v. SHENZHEN VALUELINK E-COMMERCE CO., LTD, Case No. 1:17-cv-02210, Defendants' Amended Final Invalidity and Unenforceability Contents, 9/23/2019, 5 pages.; The Powerall PBJS12000RD Jump Starter ("Powerall Jump Starter"), offered For sale by Gryphon Mobile Electronics at least as early as 11/5/2013; The Lightning 12V Jump Starter ("Lightning Jump Starter), offered for sale by Pilot, Inc. at least as early as 3/2014; The L3 Model Jump Starter, offered for sale by Shenzhen Tsevie Company as Early as 5/19/2019.
	28	THE NOCO COMPANY, INC. v. SHENZHEN CHANGXINYANG TECHNOLOGY CO., LTD., 1:17-cv-02209, Def Amd Final Invalidity and Unenforceability Contents, In the US District Court of Northern Ohio, Eastern District. The Powerall PBJS12000RD Jump Starter, offered For sale by Gryphon Mobile Electronics at least as early 11/5/13; The Lightning 12V Jump Starter, offered for sale by Pilot, Inc. at least as early 3/14; The L3 Model Jump Starter, offered for sale by Shenzhen Tsevie Co as Early 5/19/19.
	29	Notification of Material filed under Section 27, Australian Government IP Australia, November 8, 2016 (3 pages); Declaration of Sheridan Lee (8 pages); Annexure SL-1 (8 pages); Annexure SL-2 (10 pages); Annexure SL-3 (9 pages); Annexure SL-4 (18 pages); Annexure SL-5, JP 3185027 (14 pages); Annexure SL-6 of English Translation of JP 3185027 (17 pages) and US 2004/0130298 (14 pages).
	30	This Portable USB Charger Battery Pack Can Also Jump Start Your Car (viewed on Internet on October 27, 2020] <URL: https://www.howto.geek.com/179499/this-portable-usb-charger-battery-pack-can-also-jump-start-your-car/ >, published on January 13, 2014.
	31	Clore Automotive, LLC, U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF CLORE AUTOMOTIVE, LLC TO THE AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, pages 150-151.
	32	Deltran USA, LLC, U.S. International Trade Commission, Investigation No. 337-TA-1256 DELTRAN USA, LLC'S RESPONSE TO THE AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, pages 196-219.
	33	Schumaker Electric Corporation and Schumacher Power Technology (Binhai) Co. Ltd., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF SCHUMACHER ELECTRIC CORPORATON AND SCHUMACHER POWER TECHNOLOGY (BINHAI) CO. LTD., TO THE COMPLAINT OF THE NOCO COMPANY UNDER SECTION 337 OF THE TARIFF ACT OF 1930 AND NOTICE OF INVESTIGATION, pages 180-184.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	16820040
Filing Date	2020-03-16
First Named Inventor	NOOK
Art Unit	2859
Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

/M.D/	34	Best Buy Co., Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF BEST BUY CO., INC. TO THE FIRST AMENDED COMPLAINT AND THE NOTICE OF INVESTIGATION, pages 69-71.
	35	Guangdong Boltpower Energy Co, Ltd., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF GUANGDONG BOLTPOWER ENERGY CO., LTD. TO THE FIRST AMENDED COMPLAINT AND THE NOTICE OF INVESTIGATION, pages 73-74.
	36	Winplus North America, Inc. U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF WINPLUS NORTH AMERICA, INC. TO THE AMENDED COMPLAINT AND THE COMMISSIONER'S NOTICE OF INVESTIGATION, Exhibit B, pages 1-5.
	37	Autozone, Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONDENTS AUTOZONE, INC. AND BEST PARTS, INC.'S RESPONSE TO THE AMENDED COMPLAINT AND NOTICE OF INVESTIGATION.
	38	Shenzhen Carku Tech Co., Ltd., 70MAI Co., Ltd., Antigravity Batteries LLC, Gooloo Tech LLC, Great Neck Saw Mfrs, Inc., Horizon Tool, Inc., MATCO Tools Corp, Nekteck, Inc., Paris Corporation, Powermax Battery (U.S.A.), Inc., and Shenzhen Gooloo E-Commerce Co., Ltd. U.S. ITC, Investigation No. 337-TA-1256, RESPONSE TO THE AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, Exhibit B, pages 1-3.
	39	Walmart Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF WALMATR INC., TO THE COMPLAINT OF THE NOCO COMPANY UNDER SECTION 337 OF THE TARIFF ACT OF 1930 AND NOTICE OF INVESTIGATION
	40	Smartech Products, Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONDENT SMARTECH PRODUCTS, INC.'S RESPONSE TO THE COMPLAINT UNDER 337 OF THE TARIFF ACT OF 1930, AS AMENDED, AND NOTICE OF INVESTIGATION, pages 98-102.
	41	Halo2Cloud, LLC and ZAGG Inc., U.S. International Trade Commission, Investigation No. 337-TA-1256, RESPONSE OF HALO2CLOUD, LLC AND ZAGG INC TO THE SECOND AMENDED COMPLAINT AND NOTICE OF INVESTIGATION, pages 141-142.
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	43	In re Certain Portable Battery Jumpstarters and Components Thereof, 3370TA01256, United States International Trade Commission (March 17, 2021); Respondents Initial Invalidity Contentions, 14pages
	44	Fairchild MC78XX/LM78XX/MC78XXA 3-Terminal 1A Positive Voltage Regulator

INFORMATION DISCLOSURE
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Application Number	16820040
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First Named Inventor	NOOK
Art Unit	2859
Examiner Name	DIAO
Attorney Docket Number	054985-000055-US-02-02

/M.D/	45	Xysemi XR3403
	46	Texas Instruments LM2621
	47	USB Implementers Forum, Inc., Battery Charging Specification, Revision 1.1
	48	USB Power Delivery Specification 1.0, July 16, 2012, Exhibit 1045

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #
16/820,040

RECEIPT DATE / TIME
01/12/2023 10:03:54 AM ET

ATTORNEY DOCKET #
054985-000055-US-02-02

Title of Invention

JUMP STARTING DEVICE WITH USB

Application Information

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

PATENT # -

CONFIRMATION # 1056

FILED BY Erin Rosenfelder

PATENT CENTER # 61425494

AUTHORIZED BY Joseph Sauer

CUSTOMER # 20583

FILING DATE 03/16/2020

CORRESPONDENCE ADDRESS -

FIRST NAMED INVENTOR Jonathan Lewis NOOK

Payment Information

PAYMENT METHOD
DA / 503013

PAYMENT TRANSACTION ID
E20231BA05200025

PAYMENT AUTHORIZED BY
Erin Rosenfelder

PRE-AUTHORIZED ACCOUNT
503013

PRE-AUTHORIZED CATEGORY

37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)

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Title of Invention

JUMP STARTING DEVICE WITH USB

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1056	FILED BY	Erin Rosenfelder
PATENT CENTER #	61425494	FILING DATE	03/16/2020
CUSTOMER #	20583	FIRST NAMED INVENTOR	Jonathan Lewis NOOK
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Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
14710-137_IssueFee.pdf	1	Issue Fee Payment (PTO-85B)	119 KB

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DOCUMENT	MESSAGE DIGEST(SHA-512)
14710-137_IssueFee.pdf	CE930545DB186DFFE912C194CBECFBA3D2CAF5C11ED0D89 BDE6CA588F339B61A75050101F16EDD916B7BAB42432C21D9 6278CCDF397E2590C534A3C2B1852962

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/820,040	03/16/2020	Jonathan Lewis NOOK	054985-000055-US-02-02	1056

TITLE OF INVENTION: PORTABLE VEHICLE BATTERY JUMP START APPARATUS WITH SAFETY PROTECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$600	\$0.00	\$0.00	\$600	03/23/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
DIAO, M BAYE	2859	320-105000

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(A) NAME OF ASSIGNEE

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

The NOCO Company

Glenwillow, OH

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- ☐ Applicant asserting small entity status. See 37 CFR 1.27
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Date 12 January 2023

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/820,040	02/21/2023	11584243	054985-000055-US-02-02	1056

20583 7590 02/01/2023

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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 41 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

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

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

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

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

Jonathan Lewis NOOK, Gates Mills, OH;
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APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

THE NOCO COMPANY, Glenwillow, OH;

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.

IR103 (Rev. 10/09)

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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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 Central District of California on the following

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

DOCKET NO. 8:23-cv-00269-CFC	DATE FILED 2/14/2023	U.S. DISTRICT COURT Central District of California
PLAINTIFF The NOCO Company		DEFENDANT Winplus North America, Inc., Winplus NA, LLC, and ADC Solutions Auto LLC
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 U.S. 10,981,452	4/20/2021	The NOCO Company
2 U.S. 11,254,213	2/22/2022	The NOCO Company
3 U.S. 11,447,023	9/20/2022	The NOCO Company
4		
5		

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

DATE INCLUDED 3/13/2023	INCLUDED BY ☒ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 U.S. 11,584,243	2/21/2023	The NOCO Company
2		
3		
4		
5		

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

DECISION/JUDGEMENT Order granting Defendants Winplus North America, Inc., Winplus NA, LLC, and ADC Solutions Auto LLC'S Unopposed Motion to Stay by Judge Carney. Case Terminated.

CLERK Kiry K. Gray	(BY) DEPUTY CLERK Trina DeBose	DATE 5/4/23
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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