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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/064,371	08/30/2022	11427382	066749-2792	4794

142078 7590 08/10/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

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

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

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

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

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

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Christopher S. Hoppe, Cedarburg, WI;
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APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Milwaukee Electric Tool Corporation, Brookfield, WI;

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IR103 (Rev. 10/09)

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PTO/SB/08 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: October 6, 2020 (use as many sheets as necessary)				Complete if Known	
				Application Number	To be determined
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
				Attorney Docket Number	066749-2792
Sheet	6	of	12		

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	11/24/2020
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Changes applied
to document,
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Sheet	4	of	12	Attorney Docket Number	066749-2792

U.S. PATENT DOCUMENTS					
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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	11/24/2020
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation
Title: Utility Assembly and Coupling Mechanism
Appl. No.: 17/064,371
Filing Date: October 6, 2020
Examiner: WEINERTH, GIDEON R
Art Unit: 3736
Confirmation No.: 4794

ISSUE FEE TRANSMITTAL

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

Enclosed herewith please find Issue Fee Transmittal Form PTOL-85(B).

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

On page 2 of the Notice of Allowability dated July 20, 2022, the Examiner set forth various reasons for allowance. While the Applicant agrees that the allowed claims recite a combination of subject matter that is patentable over the cited references, the Applicant notes that the recited subject matter as well as various other subject matter and/or combinations of subject matter may be patentable for other reasons than those given by the Examiner. The Applicant expressly reserves the right to set forth additional and/or alternative reasons for patentability and/or allowance in connection with the present Application or in any other future proceeding.

REMARKS

These Comments on Statement of Reasons for Allowance under 37 C.F.R. § 1.104 are intended to be responsive to the Notice of Allowance dated July 20, 2022.

The requisite fees for payment of the Issue Fee are being charged to Deposit Account No. 18-0882.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882.

Respectfully submitted,

Date July 20, 2022

By /Derek H. Campbell/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8374
Facsimile: (414) 298-8097

Derek H. Campbell
Attorney for Applicant
Registration No. 70,608

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)

142078 7590 07/20/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794

TITLE OF INVENTION: Utility Assembly and Coupling Mechanism

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/20/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	220-004270

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. Reinhart Boerner Van Deuren s.c. 1 _____ 2 _____ 3 _____
---	--

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

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

(A) NAME OF ASSIGNEE
Milwaukee Electric Tool Corporation
Keter Plastic Ltd.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)
Brookfield, Wisconsin
Herzelyia, Israel

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. 18-0882

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 /Derek H. Campbell/

Date July 20, 2022

Typed or printed name Derek H. Campbell

Registration No. 70,608

Electronic Patent Application Fee Transmittal				
Application Number:		17064371		
Filing Date:		06-Oct-2020		
Title of Invention:		Utility Assembly and Coupling Mechanism		
First Named Inventor/Applicant Name:		Yaron Brunner		
Filer:		Derek Howard Campbell/Sarah Sesterhenn-Lee		
Attorney Docket Number:		066749-2792		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1200

Electronic Acknowledgement Receipt	
EFS ID:	46230463
Application Number:	17064371
International Application Number:	
Confirmation Number:	4794
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2792
Receipt Date:	20-JUL-2022
Filing Date:	06-OCT-2020
Time Stamp:	14:59:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1200
RAM confirmation Number	E20227JE59361215
Deposit Account	180882
Authorized User	Sarah Sesterhenn-Lee
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	Transmittal Letter	066749-2792- Issue_Fee_Transmittal.pdf	82389	no	2
			d5eba9d2b328f5111ca458ddcc528396531f0903		
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	066749-2792_PTOL.pdf	102860	no	1
			788ee567e6eb5ee18522046e2f7b2826e18ac2f6		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	37920	no	2
			70a13bb23dc6c09b33ed797d1f28554aba24d812		
Warnings:					
Information:					
Total Files Size (in bytes):			223169		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

142078 7590 07/20/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

EXAMINER

WEINERTH, GIDEON R

ART UNIT

PAPER NUMBER

3736

DATE MAILED: 07/20/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794

TITLE OF INVENTION: Utility Assembly and Coupling Mechanism

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/20/2022

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

142078 7590 07/20/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794

TITLE OF INVENTION: Utility Assembly and Coupling Mechanism

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/20/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	220-004270

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.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794
142078	7590	07/20/2022	EXAMINER	
Reinhart (Milwaukee Tool)			WEINERTH, GIDEON R	
ATTN: TRAVIS MCDONNELL, PARALEGAL			ART UNIT	
1000 NORTH WATER STREET			PAPER NUMBER	
SUITE 2100			3736	
MILWAUKEE, WI 53202			DATE MAILED: 07/20/2022	

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 17/064,371	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	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 6/27/2022.
☐ 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 9,13-14,21,23 and 25-26. 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 6/27/2022.
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 _____.

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	
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Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: The Amended Claims of 12/22/2021 recites a novel arrangement of a panel with mounting apertures and previously examined male/female couplers and a single latch recess in the front of the panel as shown in Figure 18A.
2. In addition, the IDS of June 27, 2022 does not impact the previous determination of patentability.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is (571)270-5121. The examiner can normally be reached Monday-Friday 10AM-6PM EST.

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, Greg Pickett can be reached on (571) 272-4560. 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.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	

CPC						
Symbol					Type	Version
B65D	/	21	/	0223	F	2013-01-01
B25H	/	3	/	02	I	2013-01-01
A45C	/	5	/	14	I	2013-01-01
A45C	/	7	/	005	I	2013-01-01
A45F	/	3	/	10	I	2013-01-01
B25H	/	1	/	04	I	2013-01-01
A45C	/	13	/	02	I	2013-01-01
B25H	/	3	/	021	I	2013-01-01
B65D	/	21	/	0209	I	2013-01-01
B62B	/	1	/	14	I	2013-01-01
B65D	/	21	/	0228	I	2013-01-01
B65H	/	2701	/	533	A	2013-01-01
A45C	/	7	/	0045	A	2013-01-01
B25H	/	3	/	023	A	2013-01-01
B62B	/	5	/	067	A	2013-01-01
B65D	/	2255	/	00	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	14 July 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	9	18A

U.S. Patent and Trademark Office

Part of Paper No.: 20220714

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

INTERNATIONAL CLASSIFICATION			
CLAIMED			
B65D		21	02
B25H		3	02
B25H		3	00
NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
220	4.27

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
211	70.6					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	14 July 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	9	18A

U.S. Patent and Trademark Office

Part of Paper No.: 20220714

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

☐ 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	Final
	1		10		19											
	2		11		20											
	3		12	4	21											
	4	2	13		22											
	5	3	14	5	23											
	6		15		24											
	7		16	6	25											
	8		17	7	26											
1	9		18													

NONE (Assistant Examiner) (Date)		Total Claims Allowed: 7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner) (Date)		14 July 2022 (Date)	O.G. Print Claim(s) 9
			O.G. Print Figure 18A

<i>Search Notes</i> 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

CPC - Searched*		
Symbol	Date	Examiner
A45C5/14	11/25/2020	GW
A45C7/005,0045	11/25/2020	GW
A45C13/02	11/25/2020	GW
A45F3/10	11/25/2020	GW
B25H1/\$,04,14,	11/25/2020	GW
B25H3/\$,02,021,023,	11/25/2020	GW
B25H5/\$	11/25/2020	GW
B65H2701/533	11/25/2020	GW
B65D21/0223,0209,0228	11/25/2020	GW
B65D2255/00	11/25/2020	GW
Update search	03/05/2021	GW
A45C5/143	09/24/2021	GW
B60B33/0002	09/24/2021	GW
B62B5/0083	09/24/2021	GW
B62B2202/24,10	09/24/2021	GW
F16M13/02	09/24/2021	GW
F16M2200/028	09/24/2021	GW
G06F1/18	09/24/2021	GW
Y10S248/917	09/24/2021	GW
Y10T16/191,5357	09/24/2021	GW
A45C5/14	02/01/2022	GW
A45C7/005,0045	02/01/2022	GW
A45C13/02	02/01/2022	GW
A45F3/10	02/01/2022	GW
B65D21/0223	02/01/2022	GW
B25H1/04	02/01/2022	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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Search Notes 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

B25H3/02,021,023,04,003	02/01/2022	GW
B62B1/14	02/01/2022	GW
B62B5/067	02/01/2022	GW
B65D21/0209,0228	02/01/2022	GW
B65D2255/00	02/01/2022	GW
B65H2701/533	02/01/2022	GW
F16M13/022	02/01/2022	GW

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
224	583,645,629,665	11/25/2020	GW
150	113	11/25/2020	GW
190	110	11/25/2020	GW
220	4.27	11/25/2020	GW
190	18A	09/26/2021	GW
16	30,29,257	09/26/2021	GW
248	222.11,223.41,222.13,187.1,223.41,177.1,187.1	09/26/2021	GW
396	419	09/26/2021	GW
	Update search	09/26/2021	GW
220	4.27	02/02/2022	GW
211	70.6	02/02/2022	GW

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

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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<i>Search Notes</i> 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

Search Notes		
Search Notes	Date	Examiner
Search Inventors, cross reference with other co-pending applications	02/08/2022	GW
IDS of 5/19/2022 considered	06/07/2022	GW
IDS of 6/27/2022 considered	07/14/2022	GW

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
220	4.27	02/08/2022	GW
211	70.6	02/08/2022	GW
16	30	02/08/2022	GW
248	177.1,187.1	02/08/2022	GW
A45C5	14	02/08/2022	GW
A45C7	005,0045	02/08/2022	GW
A45C13	02	02/08/2022	GW
A45F3	10	02/08/2022	GW
B65D21	0223,0209,0228	02/08/2022	GW
B25H1	04	02/08/2022	GW
B62B1	14	02/08/2022	GW
B25H3	02,021,023,04,003	02/08/2022	GW
B62B5	067	02/08/2022	GW
B65D2255	00	02/08/2022	GW
B65H2701	533	02/08/2022	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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<i>Index of Claims</i> 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	11/26/2020	09/26/2021	02/08/2022						
	1	N	N	N						
	2	N	N	N						
	3	N	N	N						
	4	N	N	N						
	5	N	N	N						
	6	N	N	N						
	7	N	N	N						
	8	N	N	N						
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	10	✓	-	-						
	11	✓	-	-						
	12	✓	-	-						
	13	✓	✓	=						
	14	✓	✓	=						
	15	N	-	-						
	16	N	-	-						
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	18	N	-	-						
	19	N	-	-						
	20	N	-	-						
	21		✓	=						
	22		-	-						
	23		✓	=						
	24		✓	-						
	25		✓	=						
	26			=						

Bibliographic Data

Application No: 17/064,371

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged:

/GIDEON R WEINERTH/

Examiner's Signature

G.R.W

Initials

Title:

Utility Assembly and Coupling Mechanism

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/06/2020	220	3736	066749-2792
RULE			

APPLICANTS

Milwaukee Electric Tool Corporation, Brookfield, WI,

INVENTORS

Yaron Brunner, Kibbutz Gvat, ISRAEL

Grant T. Squiers, Cudahy, WI, UNITED STATES

Christopher S. Hoppe, Cedarburg, WI, UNITED STATES

Steven W. Hyma, Milwaukee, WI, UNITED STATES

CONTINUING DATA

This application is a CON of 16752441 01/24/2020 PAT 11008136

16752441 is a CON of 16216724 12/11/2018 PAT 10583962

16216724 is a CON of 15826232 11/29/2017 PAT 10703534

15826232 is a CON of PCT/IL2017/050481 04/30/2017

PCT/IL2017/050481 has PRO of 62459076 02/15/2017

PCT/IL2017/050481 has PRO of 62330334 05/02/2016

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

10/15/2020

STATE OR COUNTRY

ISRAEL

ADDRESS

Reinhart (Milwaukee Tool)

ATTN: TRAVIS MCDONNELL, PARALEGAL

1000 NORTH WATER STREET

SUITE 2100

MILWAUKEE, WI 53202
UNITED STATES

FILING FEE RECEIVED

\$6,640

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	31	(US-0045505-\$ US-0049824-\$ US-0074725-\$ US-0206139-\$ US-0256529-\$ US-10406387-\$ US-10894314-\$ US-2103106-\$ US-2210235-\$ US-2588009-\$ US-20040074725-\$ US-20040256529-\$ US-20070045505-\$ US-20110049824-\$ US-20130206139-\$ US-4735107-\$ US-6123344-\$ US-6131926-\$ US-6354759-\$ US-6497395-\$ US-7007903-\$ US-7121417-\$ US-8292244-\$).DID.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/07/14 06:34 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G R W/

PTO/SB/08 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

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

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

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 27, 2022 <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R.
Sheet	1	of	2	Attorney Docket Number	066749-2792

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	2,103,106	12-21-1937	Yurkovitch	
	A2	2,210,235	08-06-1940	Filbert	
	A3	2,588,009	03-04-1952	Jones	
	A4	4,735,107	04-05-1988	Winkie	
	A5	6,123,344	09-26-2000	Clegg	
	A6	6,131,926	10-17-2000	Harlan	
	A7	6,354,759	03-12-2002	Leicht	
	A8	6,497,395	12-24-2002	Crocker	
	A9	7,007,903	03-07-2006	Turner	
	A10	7,121,417	10-17-2006	Magnusson et al.	
	A11	8,292,244	10-23-2012	Okada	
	A12	10,406,387	09-10-2019	Krepel et al.	
	A13	10,894,314	01-19-2021	Hocine et al.	
	A14	2004/0074725	04-22-2004	Shih	
	A15	2004/0256529	12-23-2004	Richter	
	A16	2007/0045505	03-01-2007	Chen	
	A17	2011/0049824	03-03-2011	Bar-Erez et al.	
	A18	2013/0206139	08-15-2013	Krepel et al.	

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

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

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	07/14/2022
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.R.W/

PTO/SB/08 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

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

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 27, 2022 (use as many sheets as necessary)				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R.
Sheet	2	of	2	Attorney Docket Number	066749-2792

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (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 ⁶

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	07/14/2022
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

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

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

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)							
Application Number	17064371	Filing Date	2020-10-06	Docket Number (if applicable)	066749-2792	Art Unit	3736
First Named Inventor	Yaron Brunner			Examiner Name	WEINERTH, GIDEON R		
This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV							
SUBMISSION REQUIRED UNDER 37 CFR 1.114							
Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).							
☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____ ☐ Other _____							
☒ Enclosed ☐ Amendment/Reply ☒ Information Disclosure Statement (IDS) ☐ Affidavit(s)/ Declaration(s) ☐ Other _____							
MISCELLANEOUS							
☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)							
☐ Other _____							
FEES							
☒ The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No <u>180882</u>							
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED							
☒ Patent Practitioner Signature ☐ Applicant Signature							

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

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

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

Signature of Registered U.S. Patent Practitioner			
Signature	/Derek H. Campbell/	Date (YYYY-MM-DD)	2022-06-27
Name	Derek H. Campbell	Registration Number	70608

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

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

Electronic Patent Application Fee Transmittal				
Application Number:		17064371		
Filing Date:		06-Oct-2020		
Title of Invention:		Utility Assembly and Coupling Mechanism		
First Named Inventor/Applicant Name:		Yaron Brunner		
Filer:		Derek Howard Campbell/Sarah Sesterhenn-Lee		
Attorney Docket Number:		066749-2792		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description		Fee Code	Quantity	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:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	2000	2000
Total in USD (\$)				2000

Electronic Acknowledgement Receipt	
EFS ID:	46050649
Application Number:	17064371
International Application Number:	
Confirmation Number:	4794
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2792
Receipt Date:	27-JUN-2022
Filing Date:	06-OCT-2020
Time Stamp:	16:08:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 2000
RAM confirmation Number	E20226QG10023659
Deposit Account	180882
Authorized User	Sarah Sesterhenn-Lee
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	Transmittal Letter	066749-2792-IDS_Transmittal.pdf	87162	no	2
			38b711b1d193638f8ef43a22e17637435e0b3650		
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	066749-2792-SB08.pdf	121580	no	2
			b15e93832809a321ee2dff57cf4f0f947b2ff51d		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Request for Continued Examination (RCE)	066749-2792-RCE.pdf	81823	no	3
			bf898079f0ed20ca1d7504a3238797660c8b4b8a		
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	38131	no	2
			bdc71bd41357f6ac51547eaa934a9d562d11f362		
Warnings:					
Information:					
Total Files Size (in bytes):			328696		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation et al.
Title: Utility Assembly and Coupling Mechanism
Appl. No.: 17/064,371
Filing Date: October 6, 2020
Examiner: WEINERTH, GIDEON R.
Art Unit: 3736
Confirmation Number: 4794

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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

Submitted herewith on Form PTO/SB/08 is a listing of the documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR § 1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b)(4), before the mailing of a first Office action after the filing of a Request for Continued Examination under §1.114.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 18-0882.

Respectfully submitted,

Date June 27, 2022

By /Derek H. Campbell/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8374
Facsimile: (414) 298-8097

Derek H. Campbell
Attorney for Applicant
Registration No. 70,608

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 27, 2022 <i>(use as many sheets as necessary)</i>				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R.
Sheet	1	of	2	Attorney Docket Number	066749-2792

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	2,103,106	12-21-1937	Yurkovitch	
	A2	2,210,235	08-06-1940	Filbert	
	A3	2,588,009	03-04-1952	Jones	
	A4	4,735,107	04-05-1988	Winkie	
	A5	6,123,344	09-26-2000	Clegg	
	A6	6,131,926	10-17-2000	Harlan	
	A7	6,354,759	03-12-2002	Leicht	
	A8	6,497,395	12-24-2002	Crocker	
	A9	7,007,903	03-07-2006	Turner	
	A10	7,121,417	10-17-2006	Magnusson et al.	
	A11	8,292,244	10-23-2012	Okada	
	A12	10,406,387	09-10-2019	Krepel et al.	
	A13	10,894,314	01-19-2021	Hocine et al.	
	A14	2004/0074725	04-22-2004	Shih	
	A15	2004/0256529	12-23-2004	Richter	
	A16	2007/0045505	03-01-2007	Chen	
	A17	2011/0049824	03-03-2011	Bar-Erez et al.	
	A18	2013/0206139	08-15-2013	Krepel et al.	

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

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

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 27, 2022 <i>(use as many sheets as necessary)</i>				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R.
Sheet	2	of	2	Attorney Docket Number	066749-2792

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (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 ⁶

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

142078 7590 06/17/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

EXAMINER

WEINERTH, GIDEON R

ART UNIT

PAPER NUMBER

3736

DATE MAILED: 06/17/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794

TITLE OF INVENTION: Utility Assembly and Coupling Mechanism

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	09/19/2022

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

142078 7590 06/17/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794

TITLE OF INVENTION: Utility Assembly and Coupling Mechanism

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	09/19/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	220-004270

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.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794
142078	7590	06/17/2022	EXAMINER	
Reinhart (Milwaukee Tool)			WEINERTH, GIDEON R	
ATTN: TRAVIS MCDONNELL, PARALEGAL			ART UNIT	
1000 NORTH WATER STREET			PAPER NUMBER	
SUITE 2100			3736	
MILWAUKEE, WI 53202			DATE MAILED: 06/17/2022	

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 17/064,371	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	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 5/19/2022.
☐ 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 9,13-14,21,23 and 25-26. 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 <u>5/19/2022</u> .	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	
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Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: The Amended Claims of 12/22/2021 recites a novel arrangement of a panel with mounting apertures and previously examined male/female couplers and a single latch recess in the front of the panel as shown in Figure 18A.
2. In addition, the IDS of May 19, 2022 does not impact the previous determination of patentability.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is (571)270-5121. The examiner can normally be reached Monday-Friday 10AM-6PM EST.

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, Greg Pickett can be reached on (571) 272-4560. 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.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

<i>Index of Claims</i> 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	11/26/2020	09/26/2021	02/08/2022						
	1	N	N	N						
	2	N	N	N						
	3	N	N	N						
	4	N	N	N						
	5	N	N	N						
	6	N	N	N						
	7	N	N	N						
	8	N	N	N						
	9	✓	✓	=						
	10	✓	-	-						
	11	✓	-	-						
	12	✓	-	-						
	13	✓	✓	=						
	14	✓	✓	=						
	15	N	-	-						
	16	N	-	-						
	17	N	-	-						
	18	N	-	-						
	19	N	-	-						
	20	N	-	-						
	21		✓	=						
	22		-	-						
	23		✓	=						
	24		✓	-						
	25		✓	=						
	26			=						

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	

CPC						
Symbol					Type	Version
B65D	/	21	/	0223	F	2013-01-01
B25H	/	3	/	02	I	2013-01-01
A45C	/	5	/	14	I	2013-01-01
A45C	/	7	/	005	I	2013-01-01
A45F	/	3	/	10	I	2013-01-01
B25H	/	1	/	04	I	2013-01-01
A45C	/	13	/	02	I	2013-01-01
B25H	/	3	/	021	I	2013-01-01
B65D	/	21	/	0209	I	2013-01-01
B62B	/	1	/	14	I	2013-01-01
B65D	/	21	/	0228	I	2013-01-01
B65H	/	2701	/	533	A	2013-01-01
A45C	/	7	/	0045	A	2013-01-01
B25H	/	3	/	023	A	2013-01-01
B62B	/	5	/	067	A	2013-01-01
B65D	/	2255	/	00	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	07 June 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	9	18A

U.S. Patent and Trademark Office

Part of Paper No.: 20220607

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

INTERNATIONAL CLASSIFICATION			
CLAIMED			
B65D		21	02
B25H		3	02
B25H		3	00
NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
220	4.27

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
211	70.6					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	07 June 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	9	18A

U.S. Patent and Trademark Office

Part of Paper No.: 20220607

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

☐ 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	Original
	1		10		19											
	2		11		20											
	3		12	4	21											
	4	2	13		22											
	5	3	14	5	23											
	6		15		24											
	7		16	6	25											
	8		17	7	26											
1	9		18													

NONE (Assistant Examiner) (Date)		Total Claims Allowed: 7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner) (Date)		07 June 2022 (Date)	O.G. Print Claim(s) 9
			O.G. Print Figure 18A

<i>Search Notes</i> 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

CPC - Searched*		
Symbol	Date	Examiner
A45C5/14	11/25/2020	GW
A45C7/005,0045	11/25/2020	GW
A45C13/02	11/25/2020	GW
A45F3/10	11/25/2020	GW
B25H1/\$,04,14,	11/25/2020	GW
B25H3/\$,02,021,023,	11/25/2020	GW
B25H5/\$	11/25/2020	GW
B65H2701/533	11/25/2020	GW
B65D21/0223,0209,0228	11/25/2020	GW
B65D2255/00	11/25/2020	GW
Update search	03/05/2021	GW
A45C5/143	09/24/2021	GW
B60B33/0002	09/24/2021	GW
B62B5/0083	09/24/2021	GW
B62B2202/24,10	09/24/2021	GW
F16M13/02	09/24/2021	GW
F16M2200/028	09/24/2021	GW
G06F1/18	09/24/2021	GW
Y10S248/917	09/24/2021	GW
Y10T16/191,5357	09/24/2021	GW
A45C5/14	02/01/2022	GW
A45C7/005,0045	02/01/2022	GW
A45C13/02	02/01/2022	GW
A45F3/10	02/01/2022	GW
B65D21/0223	02/01/2022	GW
B25H1/04	02/01/2022	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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Search Notes 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

B25H3/02,021,023,04,003	02/01/2022	GW
B62B1/14	02/01/2022	GW
B62B5/067	02/01/2022	GW
B65D21/0209,0228	02/01/2022	GW
B65D2255/00	02/01/2022	GW
B65H2701/533	02/01/2022	GW
F16M13/022	02/01/2022	GW

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
224	583,645,629,665	11/25/2020	GW
150	113	11/25/2020	GW
190	110	11/25/2020	GW
220	4.27	11/25/2020	GW
190	18A	09/26/2021	GW
16	30,29,257	09/26/2021	GW
248	222.11,223.41,222.13,187.1,223.41,177.1,187.1	09/26/2021	GW
396	419	09/26/2021	GW
	Update search	09/26/2021	GW
220	4.27	02/02/2022	GW
211	70.6	02/02/2022	GW

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

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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Search Notes 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

Search Notes		
Search Notes	Date	Examiner
Search Inventors, cross reference with other co-pending applications	02/08/2022	GW
IDS of 5/19/2022 considered	06/07/2022	GW

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
220	4.27	02/08/2022	GW
211	70.6	02/08/2022	GW
16	30	02/08/2022	GW
248	177.1,187.1	02/08/2022	GW
A45C5	14	02/08/2022	GW
A45C7	005,0045	02/08/2022	GW
A45C13	02	02/08/2022	GW
A45F3	10	02/08/2022	GW
B65D21	0223,0209,0228	02/08/2022	GW
B25H1	04	02/08/2022	GW
B62B1	14	02/08/2022	GW
B25H3	02,021,023,04,003	02/08/2022	GW
B62B5	067	02/08/2022	GW
B65D2255	00	02/08/2022	GW
B65H2701	533	02/08/2022	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	25	((("11066089") or ("11155382") or ("11230410") or ("11283117") or ("20020030425") or ("20030075468") or ("20070273114") or ("20090288970") or ("20120073995") or ("20140062042") or ("20140197059") or ("20160213115") or ("20170158216") or ("20200078929") or ("20210104909") or ("20210221561") or ("20210316909") or ("D437484") or ("D649783") or ("D876833") or ("D897103") or ("D918584") or ("D919296") or ("D941020") or ("RE47022"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/06/07 18:28
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S2	73	((("Brunner") near3 ("Yaron"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:18
S3	60	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:18
S4	93	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:18
S5	166	((("Hyma") near3 ("Steven") near3 ("W"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:18
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	"6512345"	"6520513"	"6520597"				
	"6522950"	"6523837"	"6533298"				
	"6535793"	"6536228"	"6536733"				
	"6540310"	"6543800"	"6550791"				
	"6557954"	"6561396"	"6563084"				
	"6574958"	"6576406"	"6581718"				
	"6581945"	"6585304"	"6595812"				
	"6619485"	"6626453"	"6636781"				
	"6637835"	"6641149"	"6648349"				
	"6651456"	"6651804"	"6652164"				
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	"6679795"	"6708068"	"6715575"				
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	"6755428"	"6758482"	"6772673"				
	"6773327"	"6774597"	"6783147"				
	"6792935"	"6793223"	"6796319"				
	"6799689"	"6805113"	"6811180"				
	"6814362"	"6824150"	"6831436"				
	"6837318"	"6840588"	"6843062"				
	"6883267"	"6889118"	"6893030"				
	"6917176"	"6918563"	"6921101"				
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	"6932362"	"6932365"	"6936003"				
	"6944981"	"6948334"	"6962354"				
	"6981705"	"6983941"	"6993931"				
	"7011224"	"7017940"	"7040115"				
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	"7090637"	"7108335"	"7121560"				
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	"7155859"	"7171279"	"7188473"				
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	"7229093"	"7232183"	"7249772"				
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	"7306243"	"7311487"	"7322586"				
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	"7389608"	"7398618"	"7407170"				
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	"7597334"	"7597762"	"7600592"				
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S34	20	("2015/0241107").URPN.	USPAT	OR	OFF	2020/11/24 16:42
S35	6	("2014/0014669").URPN.	USPAT	OR	OFF	2020/11/24 16:46
S36	42	("1531542" "1946593" "20040195793" "20050263527" "20100155349" "20110220531" "20110315695" "20140014669" "3194426" "4551988" "5249438" "5465985" "5803472" "5890613" "5947032" "6244064" "6328179" "6364329" "6467779" "7140507" "7278234" "7389608" "7415794" "8925752").PN. OR ("9500400").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:46
S37	15	("2004/0195793").URPN.	USPAT	OR	OFF	2020/11/24 16:47
S38	82	("20020175172" "20030136699" "20040035867" "20040112906" "20040173996" "20040195793" "20050051549" "20050109654" "20060119060" "20060201943" "20070045146" "20070202221" "20070235963" "20080047855" "20080296183" "20090212514" "20100108556" "20110186458" "20120292867" "20140014539" "20140210188" "20140251996" "20140360899" "20150151566" "2338477" "2765099" "3376046" "3613940" "3777896" "3912158" "3923318" "3963256" "4091953" "4291829" "4316540" "4363821" "4576389" "4688675" "4756420" "5042674"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:47

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S39	56	("3376046").URPN.	USPAT	OR	OFF	2020/11/24 16:51
S40	40	("2885135" "3376046" "3539071" "3568879" "3987829" "4174950" "4765252" "4844263" "D248015").PN. OR ("D333094").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:53
S41	78	("0879455" "20040134390" "20040178208" "20060254946" "20060254947" "20080017650" "20100219193" "2695115" "2849151" "3103278" "3117692" "3383009" "3391824" "3407758" "3419184" "3481502" "3616943" "3754645" "3756396" "3759416" "3811747" "3916803" "3926321" "3968879" "4287997" "4618059" "4655360" "4765252" "4832200" "4848605" "4889235" "5054617" "5203494" "5392945" "5404829" "5454477" "5641090" "5718350" "5769230" "5779051" "5974981" "6021916" "6085467" "6186345" "6237758" "6308858" "6371364" "6446563" "6457599" "6585090" "6622642" "6662950" "6698362" "7163122" "D236326" "D333094" "D361715" "D446017" "D500924").PN. OR ("8851287").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:54
S42	4	B65D71/0088,0092,0096.cpc. and (dovetail (dove adj tail))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:55
S43	10	((("1261155") or ("1498377") or ("1826835") or ("1900980") or ("2400197"))).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:57
S44	3	("1498377").URPN.	USPAT	OR	OFF	2020/11/24 16:57

S45	0	("2830699").URPN.	USPAT	OR	OFF	2020/11/24 16:58
S46	1,656	(truck) and (tool adj box)	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:58
S47	10	("20030230909" "20130021453" "20140117062" "3688954" "4420238" "4465187" "5018779" "6152513" "6886876" "D374654").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:03
S48	127	B25H1/\$.cpc. and (dovetail (dove adj tail))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:05
S49	118	B25H3/\$.cpc. and (dovetail (dove adj tail))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:06
S50	7	B25H5/\$.cpc. and (dovetail (dove adj tail))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:06
S51	13	("20080087128" "20080244888" "20050265798" "20020057952" "20020131836" "20140305217" "20030116331" "20100031487" "20160176003" "6172374" "20080083128" "5584818" "5379510").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:07
S52	48	("20040188322" "20160075010" "20160194115" "4863222" "6082539" "7237673" "8561679" "8979100" "D645663" "9725209" "20110155613" "0263561" "5570784" "6349827" "D563102" "D648531" "D781584" "D528793" "RE47022" "4619363" "8602217" "20120152944" "20150353231" "5617953" "8590704" "8875888" "D563671" "5890613" "6271320" "6543613" "6868967" "7690856" "8459495" "8714355" "D563670" "5803254" "7322470" "9469024" "20030094392" "5887715" "8322354" "6889838" "8505729" "20020179473" "4643494" "5934466" "7219969").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:10
S53	14	("2016/0194115").URPN.	USPAT	OR	OFF	2020/11/24 17:10
S54	48	("0263561" "20020179473" "20030094392" "20040188322" "20110155613" "20120152944"	US- PGPUB;	OR	OFF	2020/11/24 17:11

		"20150353231" "20160075010" "20160194115" "4619363" "4643494" "4863222" "5570784" "5617953" "5803254" "5887715" "5890613" "5934466" "6082539" "6271320" "6349827" "6543613" "6868967" "6889838" "7219969" "7237673" "7322470" "7690856" "8322354" "8459495" "8505729" "8561679" "8590704" "8602217" "8714355" "8875888" "8979100" "9469024" "9725209" "D528793" "D563102" "D563670" "D563671" "D645663" "D648531" "D781584" "RE47022").PN. OR ("10603783").URPN.	USPAT; USOCR			
S55	21	("20080000899" "20090255092" "4714158" "8636169" "20130021787" "20060157373" "7559514" "20150021322" "20140311926" "0532324" "20020179462" "20160130034" "4505506" "5415277" "4364150" "6059109" "20100176022" "5423445" "5609282" "5904388").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:12
S56	31	("1385484" "2888970" "3201035" "4616752" "6202847" "6648390" "6874634" "7137522").PN. OR ("7690856").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:15
S57	7	("3201035").URPN.	USPAT	OR	OFF	2020/11/24 17:19
S58	24	((("0577452") or ("0895867") or ("1126977") or ("2199970") or ("2522483") or ("2563094") or ("2703200") or ("2715559") or ("2974808") or ("3030163") or ("3081023") or ("3107012")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:20
S59	42	("2807387" "3182856" "4724756" "5083664" "5375709" "5445269").PN. OR ("5934466").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:24
S60	23	("3182856" "4293070" "4404615" "4427114" "4553190" "4557382" "4561554" "4886163" "5107989" "5180615" "5244087").PN. OR ("5375709").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:26
S61	26	("3224822" "3401993" "3552817" "3851936" "3907116" "4178047" "4243279" "4317603" "4328902" "4420196" "5271515" "5375709" "5775046" "6050657").PN. OR ("7350648").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:26

S62	151	("1409838" "20010040080" "20020074332" "20020130005" "20020185350" "20030034215" "20030034636" "20040000457" "20040004332" "20040026199" "20040074725" "20040163910" "20040211634" "20040238303" "20050077133" "20050077706" "20050098402" "20050103590" "20050150733" "20050258621" "20050285359" "20060010644" "20060086583" "20060102677" "20060163305" "20060175170" "20060196743" "20060207848" "20080060953" "20080136133" "20080223679" "20080236972" "20080308369" "20080308370" "20090057082" "20090139813" "20090160147" "20090218187" "20100000805" "20100025174" "20100095480" "20100108452" "20100147642" "20100263977" "20100307879" "20100308563" "20110247910" "20120160617" "20120261223" "20150091264" "20160045000" "2454438" "2602675" "3131829" "3178197" "3317081" "3659867" "3842953" "3891230" "3974898" "4087102" "4314624" "4335895" "4575109" "4588055" "4673070" "4917392" "4953257" "4969660" "5072958" "5105962" "5127662" "5263727" "5310071" "5348325" "5533231" "5628443" "5630601" "5749503" "5803471" "5815843" "5873145" "5984154" "5984327" "6016893" "6042127" "6047442" "6141841" "6179176" "6182981" "6186295" "6196366" "6196560" "6213266" "6213267" "6237734" "6260871" "6279705" "6289554" "6305587" "6360400" "6367602" "6401888" "6401890" "6409412" "6454065" "6471019" "6474524").PN. OR ("6484362" "6530507" "6533086" "6575493" "6591950" "6604617" "6609271" "6736073" "6769701" "6832670" "6880685" "6923352" "6961976" "6964420" "7066311" "7070190" "7073694" "7093700" "7097181" "7097183" "7143912" "7226073" "7232018" "7237660" "7281616" "7284304"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:27
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S64	172	("10434638" "20020000440" "20020171228" "20030115715" "20030146589" "20030184034" "20030205877" "20040103494" "20040195793" "20040206656" "20050062244" "20050104308" "20050139745" "20060006770" "20060027475" "20060038367" "20060119060" "20060186624" "20060254946" "20070068757" "20070090616" "20070145700" "20070194543" "20080104921" "20080115312" "20080121547" "20080134607" "20080169739" "20080271280" "20080277221" "20080308369" "20090026901" "20090071990" "20090145790" "20090145866" "20090145913" "20090178946" "20100052276" "20100139566" "20100147642" "20100219193" "20110073516" "20110139665" "20110155613" "20110181008" "20110220531" "20120160886" "20120180250" "20120207571" "20120326406" "20130024468" "20130031731" "20130031732" "20130121783" "20130127129" "20130223971" "20140161518" "20140166516" "20150376917" "20160023349" "20160130034" "20160144500" "20160168880" "20170121056" "20170138382" "20170165828" "20170166352" "20170174392" "20170217464" "20170239808" "20170257958" "20170266804" "20170318927" "20180044059" "20180161975" "20180186513" "20180220758" "20180290288" "20190002004" "20190039781" "20190106244" "20190225371" "2042387" "2430200" "2970358" "3117692" "3506321" "3974898" "4168076" "5035445" "5105947" "5240264" "5301829" "5429260" "5595228"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:29

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S65	9	("2018/0220758").URPN.	USPAT	OR	OFF	2020/11/24 17:30
S66	24	("20110139665" "20110155613" "3410376" "5544751" "20150069962" "4643494" "8561769" "6367631" "1084360" "8602217" "6098819" "3891230" "6585090" "8590704" "3757911" "6213266" "20080121547" "1084360" "5971119" "20100224528" "20140062281" "20150274362" "20170318927").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:30
S67	51	("1575270" "20020170933" "20030141329" "20050247653" "20060237509" "20080142462" "20080179370" "20080185353" "20090145789" "20090145866" "20140075650" "20170266804" "2290468" "2546720" "2763377" "2964196" "3145031" "3536286" "4264013" "4923202" "4932576" "5395023" "5511705" "5722576" "5881891" "5971242" "6213365" "6666465" "6698632" "6874624" "7090075" "7322482" "7686196" "7699197" "7726495" "7762440" "8267260"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:20

		"8510868" "9038869" "D163637" "D165553" "D328681").PN.				
S68	18	("2715966" "20050247653" "4771897" "5429252" "5740927" "5845792" "6152312" "6267338" "6435357" "6564949" "6698603" "6871749" "7014052" "7028854" "7117998" "6581788" "5915573").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:20
S69	43	("2754974" "4693381" "4771897" "4869378" "5224609" "5472167" "5524772").PN. OR ("5740927").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:22
S70	17	("20130134193" "20130269509" "2783896" "4776471" "5078279" "5438787" "5740927" "5762245" "5791499" "6546598" "6572168" "6626477" "7047771").PN. OR ("8939335").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:23
S71	71	("2708088" "3701436" "3876079" "4084735" "4108313" "4271997" "4450989" "4776471").PN. OR ("5078279").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:24
S72	58	("0554252" "1202588" "1951255" "20050133473" "20060113341" "20060288625" "20070170129" "20110168649" "20120228243" "2783896" "2958422" "2987285" "4113107" "4132315" "4141452" "4174042" "4461385" "4776471" "4936531" "4982522" "4986427" "5062184" "5078279" "5222701" "5265950" "5524772" "5806691" "5979846" "6129252" "6427497" "6929233" "6935065" "6986446" "7267353" "7467719" "7478892" "7770740" "8444034" "D611558").PN. OR ("8678206").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:26
S73	32	("0670870" "2724881" "3069538" "3197830" "3421187" "3463436" "3746294" "3888440" "3894707" "4391376" "4638966" "4768741" "5062184").PN. OR ("5222701").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:29
S74	32	("2653686" "3154281" "3253084" "3632071" "3807675" "3809799" "3894706" "3913876" "3917202" "3985275" "4023758").PN. OR ("4391376").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:31
S75	18	("20140259566" "2384158" "3226069" "3633857" "3894707" "4391376"	US- PGPUB;	OR	OFF	2020/11/24 22:31

		"4524937" "5098054" "5105509" "5487518" "5906302" "7261256" "8413933" "9127807" "9303792" "D343975").PN. OR ("10758065").URPN.	USPAT; USOCR			
S76	39	("2937766" "3319983" "4955573" "5020760" "5190260").PN. OR ("5487518").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:33
S77	26	("20020125389" "20040051015" "20040238702" "2908471" "3695569" "3702591" "3774788" "4071216" "4306702" "5078279" "5351842" "D373719").PN. OR ("8500078").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:41
S78	24	("2651710" "3403641" "3526934" "3756637" "4199070" "4460141" "4819309" "4953146" "5058843" "5794897" "5941483" "6079673" "6357194" "6783101" "7007900" "7484698" "8342474" "8500078").PN. OR ("9267624").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:42
S79	53	("20040056156" "20080296443" "20090218451" "20090277524" "4618114" "4919372" "5123547" "5794897" "5921509" "6053456" "6227502" "6378811" "6378813" "6561466" "6715247" "6889944" "7281356").PN. OR ("8342474").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:43
S80	31	("20050211463" "3125196" "3523667" "3526934" "3765629" "3856246" "4093076" "4336673" "4601447" "4618114" "4856658" "5104072" "5642612" "5791607" "5823484" "5829243" "5855279" "6375129" "6378811" "6513781" "6889944" "7467767" "7497718" "7686259" "7802680" "7828251" "8074945" "8079552").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:44
S81	22	("4410095" "4770297" "5351417" "5484057" "5595294" "6047827" "7395984").PN. OR ("7802680").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:45
S82	126	("0136905" "0177936" "0327939" "0342194" "0543735" "0570465" "0632234" "0687431" "0724427" "0754503" "0764774" "0888032" "0914469" "1653374" "1848937" "1936813" "20040020880" "20040108734" "20060022105" "20070251904" "20080053931" "20080169395" "20080179898" "20100264102"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:46

		"20110042333" "20120012726" "20120111814" "20120152871" "20120181244" "20150250333" "20170127867" "2141009" "2273641" "2309990" "2344339" "2369336" "2447128" "2485201" "2754974" "2842264" "2919881" "3285426" "3289994" "3343684" "3612426" "4308961" "4609233" "4658967" "4750698" "4773172" "4775127" "4882868" "4905846" "4936469" "5060897" "5080238" "5104083" "5154304" "5312081" "5348167" "5398820" "5433413" "5441161" "5480206" "5584462" "5584521" "5727698" "5853092" "5897002" "5906403" "6257409" "6283311" "6289618" "6299000" "6349909" "6427500" "6557807" "6604637" "6607234" "6637707" "6789771" "6886791" "6932223" "6935518" "7040125" "7228977" "7427053" "7658265" "7694933" "7802680" "8550265" "9339130" "D043289" "D175455" "D855408").PN. OR ("10729244").URPN.				
S83	20	("0488851" "1045932" "20020070136" "20020104709" "20050258002" "5370263" "5433413" "5673885" "5782314" "5873433" "5950972" "7032711" "7063187").PN. OR ("7658265").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:48
S84	8	("20070284191" "20090127146" "4653713" "6138963" "6401862" "6997282" "7540560" "7658265").PN. OR ("10184292").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:49
S85	76	("1858656" "2308180" "2444096" "2798652" "3495683" "3631572" "3915189" "4261435" "4300740" "4428458" "4480810").PN. OR ("4653713").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:50
S86	51	("1794700" "20020017430" "20050258002" "20070181367" "20090078504" "20090179125" "3477679" "3915189" "4176580" "4653713" "4858869" "5035389" "5240214" "5259480" "5358070" "5370263" "5433416" "5503245" "5547080" "5573081" "5584357" "5622278" "5740883" "5782314" "5899420" "5924615" "6401862" "6412601" "6443260" "6467577" "6827215"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:53

		"6837383" "7032711" "7270307").PN. OR ("8453796").URPN.				
S87	42	("4211455" "4303158" "4437568" "4703850" "4911296" "4928823" "5370263" "5547080" "5725096" "5727649" "5749437" "5901998" "5913380" "5924615" "5951129" "5971101" "6095156").PN. OR ("6837383").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:55
S88	19	("2835503" "3084463" "4828120" "6189248" "6220461" "6264220" "6367752" "6698701" "6712324" "6837383" "7798336").PN. OR ("8517320").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:56
S89	147	("1855314" "1869901" "1879332" "1900868" "20030106498" "20030192480" "20040112258" "20050072894" "20050115508" "20050246989" "20050279898" "20060011142" "20060042549" "20060196436" "20070028854" "20080023479" "20080179265" "20080190372" "20080237434" "20090001231" "20100107984" "20100162961" "20110049065" "20110114025" "20120325158" "20130334377" "20140346293" "20150122185" "20190053623" "2555396" "2845896" "3099355" "3260559" "3630385" "3669035" "3698594" "3776193" "4044723" "4065195" "4205629" "4261294" "4329003" "4498654" "4532891" "4587930" "4699089" "4798170" "4843977" "4919498" "4976223" "4986332" "5000124" "5054431" "5144912" "5152247" "5226625" "5435266" "5501176" "5718493" "5730081" "5802647" "5855184" "5870969" "6098941" "6131521" "6161486" "6189489" "6199510" "6209487" "6308641" "6382578" "6394001" "6409137" "6427626" "6516948" "6526911" "6705249" "6729685" "6901880" "6945194" "7077372" "7124709" "7261264" "7284500" "7314023" "7341019" "7395765" "7513219" "7530329" "7614363" "7665417" "7748538" "7802327" "7837165" "7938083" "7963231" "8146534" "8148651" "8245992" "8308115"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:57

		"8342129" "8381661" "8443736" "8517320" "8671598" "8672172" "8684195" "8776725" "8807082" "8833305" "8893657" "9284776" "D209754" "D209755" "D213377" "D213378").PN. OR ("D216989" "D229073" "D357557" "D358233" "D375818" "D421160" "D424758" "D424759" "D491697" "D506295" "D622013" "D657920" "D662265" "D676612" "D695974").PN. OR ("10412929").URPN.				
S90	26	("1900868" "20030116094" "20040144330" "20090015121" "20130145990" "2555396" "2659345" "2800380" "2997022" "3606506" "3743372" "4231626" "4634193" "5144912" "5152247" "5222990" "5435266" "7458338" "8342129").PN. OR ("8893657").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:00
S91	83	("2842420" "2998128" "3032381" "3294463" "3501044" "3552817").PN. OR ("3743372").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:03
S92	34	("3514170" "3552817" "3743372" "3999818" "5046789" "5454634" "5704699" "5775046" "6003924" "6015050" "6027188" "6050657" "6488346").PN. OR ("7100999").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:06
S93	102	("3468081" "3668832" "3836217" "4003172" "4095769" "4243279" "4413867" "4423913" "4577914" "4768298" "4867513" "5046789" "5267863" "D334704" "D337653").PN. OR ("5775046").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:09
S94	42	("1520518" "1870978" "20040198141" "3241885" "3415007" "3669033" "3966337" "4039133" "4163537" "4212130" "4216729" "4223945" "4270302" "4915034" "5226864" "5715760" "5775046" "5813737" "5899423" "5988077" "6220180" "6283042" "6341566" "6382109" "8191488" "D370045").PN. OR ("8316781").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:14
S95	41	("20040226901" "20070023464" "2100421" "2996192" "3172540" "3452959" "3497079" "3799357" "4480755" "4509648" "4516681" "4932538" "5083668" "5775046" "5927517" "5944203" "6015124"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:17

		"6062399" "6481584" "6491172" "6929131" "6945414").PN. OR ("7798338").URPN.				
S96	159	("20010047971" "20030189019" "2029089" "3192667" "3204776" "3310271" "3469710" "3698565" "3733756" "4223488" "4229913" "4323163" "4420087" "4438604" "4450970" "4572381" "4579308" "4589557" "4591058" "4593824" "4598504" "4602756" "4607753" "4615448" "4629076" "4638618" "4674240" "4677794" "4805783" "4805784" "4809479" "4811475" "4825601" "4826022" "4891897" "4932538" "4944416" "4961295" "5138803" "5142832" "5185971" "5228579" "5241796" "5337525" "5360121" "5375802" "5412912" "5429252" "5477969" "5484067" "5547156" "5582376" "5655674" "5671852" "5697507" "5740927" "5791093" "5819490" "5857577" "5899344" "5941026" "5944203" "6050426" "6068135" "6116435" "6119784" "6119878" "6123154" "6134846" "6164467" "6199705" "6209730" "6276034" "6299001" "6311854" "6325223" "6349507" "6363645" "6591996").PN. OR ("6945414").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:18
S97	20	("20060243766" "20070094955" "20100307649" "20130081233" "20130193179" "20140374564" "2920767" "3605637" "4256424" "4687094" "4708311" "5083668" "5674033" "6824028" "6945414" "7261264" "7392912" "8613564").PN. OR ("10683963").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:20
S98	39	("20050072746" "3200960" "4094415" "4509648" "4826022" "5109993" "5154304" "5316252" "5484067" "5595309" "5927517" "6068135" "6070747" "6481584" "6491172" "6536613" "6561474" "6575314" "6644483" "6675978").PN. OR ("7392912").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:23
S99	54	("1787734" "2997270" "3229944" "3278146" "4204602" "4909464" "5056668" "5069416" "Re33596").PN. OR ("5316252").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:25

S100	9	("2997270").URPN.	USPAT	OR	OFF	2020/11/24 23:27
S101	61	("0511617" "1890000" "2492697" "2557630" "2807387" "3203744" "3283915" "3514170" "3743372" "3758181" "3918781" "3999818" "4026615" "4056295" "4120549").PN. OR ("4243279").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 00:00
S102	14	("3899229" "4054344" "4087145" "4216857" "4243279" "D238401" "D247794").PN. OR ("D285986").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 00:01
S103	58	("3552817").URPN.	USPAT	OR	OFF	2020/11/25 11:50
S104	83	("2842420" "2998128" "3032381" "3294463" "3501044" "3552817").PN. OR ("3743372").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 18:49
S105	66	("2128854" "3743372").PN. OR ("4863222").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 18:50
S106	6	((("0460177") or ("1294446") or ("2568147"))).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:00
S107	9	("1294446").URPN.	USPAT	OR	OFF	2020/11/25 19:01
S108	61	("0722828" "2473951" "2584050" "4059248" "4141524" "4432525" "4653713" "4805859" "4819922" "4874147" "4967929" "4986505" "5007612" "5009380").PN. OR ("5240214").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:27
S109	52	("2476134" "2512934" "4095364" "4382733" "4700923").PN. OR ("4805859").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:29
S110	60	("4132380" "4307864" "4524938" "4974798").PN. OR ("5035389").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:31
S111	19	("2696962" "4929973" "5035389" "5040712" "5129613" "5282554" "5332183" "5356105" "5653366" "5730348" "5730406" "6036071" "6315182" "7225958" "8020821").PN. OR ("8448829").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:34

S112	26	("3334953" "4249684" "4938398" "4993771" "5255832" "5395019").PN. OR ("5653366").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:35
S113	42	("0613226" "0637733" "0767823" "3613970" "3955729" "4056219" "4260086" "4315583" "4366922" "4415105" "4440332" "4542839" "4638933" "4730758" "4981243" "5024359" "5105958").PN. OR ("5282554").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:37
S114	56	("4088848" "4419794" "5026016" "5035389" "5054170" "5375749" "5428866" "5567038" "5593121" "5604958" "5622296" "5729869").PN. OR ("5957421").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:40
S115	8	("2017/0138382").URPN.	USPAT	OR	OFF	2020/11/25 19:53
S116	84	("2461526" "3078484" "3114486" "3233803" "3749294" "3902640" "3915189" "4082208" "4287997" "4307826" "4366922" "4424841" "4491258" "4545414" "4673070" "4790432" "4813542" "4884731" "5131576" "5184763" "5321904" "5419473").PN. OR ("5628443").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:58
S117	67	("3194426" "3642337" "4192562" "4893719" "5263576" "5299688" "5310071").PN. OR ("5890613").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 20:23
S118	609	224/583,645,629,665.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 20:24
S119	301	150/113.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 20:24
S120	552	190/110.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 20:24
S121	14	("2009/0145866").URPN.	USPAT	OR	OFF	2020/11/25 22:27
S122	12	("20110139777" "5301829" "5427265" "8602217").PN. OR ("9701443").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 22:30

S123	17	("4181349" "4188058" "4911493" "5131709" "5137322" "5154478" "5421634" "5722711" "D271009").PN. OR ("6017075").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:10
S124	430	(US-20200299027-\$ or US-20200243925-\$ or US-20180186513-\$ or US-20180099405-\$ or US-20160221177-\$ or US-20150034515-\$ or US-20120292213-\$ or US-20030094393-\$ or US-20020125072-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20140166516-\$).did. or (US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$ or US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$).did. or (US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$ or US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$).did. or (US-20030205877-\$ or US-20030184034-\$ or US-20030146589-\$ or US-20030115715-\$ or US-20020171228-\$ or US-20020000440-\$ or US-20200165036-\$ or US-20200147781-\$ or US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:22

	20180290288-\$ or US-20180220758-\$ or US- 20180161975-\$ or US-20180153312-\$ or US- 20180044059-\$ or US-20170349013-\$).did. or (US-D895375-\$ or US-D892565-\$ or US- D891875-\$ or US-D891195-\$ or US-D891193- \$ or US-D888503-\$ or US-D888422-\$ or US- D887788-\$ or US-D883752-\$ or US-D880951- \$ or US-D880252-\$ or US-10583962-\$ or US- D873085-\$ or US-D857387-\$ or US-D845081- \$ or US-D845080-\$ or US-D839681-\$ or US- D836995-\$ or US-D831352-\$ or US- 10106180-\$ or US-D806483-\$ or US- D803631-\$ or US-9725209-\$ or US-D784089- \$ or US-D777426-\$ or US-9506489-\$).did. or (US-D753396-\$ or US-D738105-\$ or US- D649350-\$ or US-D536580-\$ or US-D527225- \$ or US-6305498-\$ or US-D420860-\$ or US- D415393-\$ or US-D361511-\$ or US-D352208- \$ or US-D340167-\$ or US-D326815-\$ or US- D325324-\$ or US-5098235-\$ or US-D319016- \$ or US-4971201-\$ or US-D232798-\$ or US- 3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US- 0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$).did. or (US-10434638-\$ or US-2970358-\$ or US- 2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US- 0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US- 0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US- 0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US- 0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$).did. or (US-0206656-\$ or US-0205877-\$ or US- 0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US- 0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US- 0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US- 0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US- 0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$).did. or (US-0145866-\$ or US-0145790-\$ or US- 0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US- 0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US- 0121547-\$ or US-0121056-\$ or US-0119060-\$			
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	or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$).did. or (US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$ or US-D871013-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-9750543-\$ or US-9701443-\$ or US-9643629-\$ or US-9616562-\$ or US-9566990-\$ or US-9511491-\$ or US-9132543-\$).did. or (US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$ or US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-7147243-\$ or US-7066475-\$).did. or (US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$ or US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-5988473-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-5429260-\$ or US-5301829-\$ or US-5240264-\$).did. or (US-5105947-\$ or US-5035445-\$ or US-4168076-\$ or US-3974898-\$ or US-3506321-\$ or US-3117692-\$).did. or (US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$).did. or (US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-				
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		0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$).did. or (US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$).did. or (US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-3506321-\$ or US-3117692-\$).did.				
S125	1,179	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S126	570	220/4.27.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S127	1,079	B65D21/0223,0209,0228.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S128	2,226	A45C5/14.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S129	91	A45C7/005.cpc.	US-PGPUB;	OR	OFF	2020/11/25 23:23

			USPAT; USOCR			
S130	3,366	A45C13/02.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S131	431	A45F3/10.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S132	935	B25H1/04.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S133	199	B25H3/021.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S134	1,147	B62B1/14.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S135	377	A45C7/0045.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S136	473	B25H3/023.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S137	959	B62B5/067.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S138	42	B65D2255/00.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S139	206	B65H2701/533.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S140	16	("3187924" "5743416" "D582190" "4848574" "3563394" "4126366" "6206189" "6786341" "20050189308" "5497877" "4993583" "3252614" "3347394").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 00:46

S141	40	("3000684" "3002630" "3542446" "3734526" "4222544" "4240684" "4429850" "4457527" "4458963" "4509648" "4653638" "4681233" "4706918" "4744613" "4880192" "5188242" "5246286" "5360121" "5370263" "7209098" "D303306").PN. OR ("5437502").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 00:54
S142	26	("3182856").URPN.	USPAT	OR	OFF	2020/11/26 19:24
S143	317	(US-20190225371-\$ or US-20180161975-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20190315515-\$ or US-20190291922-\$ or US-20170318927-\$ or US-20160144500-\$ or US-20160008972-\$ or US-20140062281-\$ or US-20180044059-\$ or US-20150376917-\$ or US-20120152944-\$ or US-20110181008-\$ or US-20110049824-\$ or US-20090236255-\$ or US-20040134818-\$ or US-20060027475-\$ or US-20060012139-\$ or US-20120326406-\$ or US-20160023349-\$ or US-20150241107-\$ or US-20140014669-\$).did. or (US-20040195793-\$ or US-20100219193-\$ or US-20040134390-\$ or US-20200353612-\$ or US-20200238920-\$ or US-20200223349-\$ or US-20200165036-\$ or US-20190381959-\$ or US-20160059906-\$ or US-20180326572-\$ or US-20180312115-\$ or US-20030230909-\$ or US-20170320209-\$ or US-20160256995-\$ or US-20160176003-\$ or US-20190168376-\$ or US-20160194115-\$ or US-20160130034-\$ or US-20150021322-\$ or US-20030094392-\$ or US-20110247910-\$ or US-20100147642-\$ or US-20150274362-\$ or US-20150069962-\$ or US-20170266804-\$ or US-20090145866-\$ or US-20050247653-\$).did. or (US-20070170129-\$ or US-20140259566-\$ or US-20080296443-\$ or US-20170127867-\$ or US-20120111814-\$ or US-20080169395-\$ or US-20080053931-\$ or US-20060022105-\$ or US-20040020880-\$ or US-20090179125-\$ or US-20020017430-\$ or US-20190053623-\$ or US-20080237434-\$ or US-20050279898-\$ or US-20050072894-\$ or US-20130145990-\$ or US-20130193179-\$ or US-20100307649-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20140161518-\$ or US-20110139665-\$ or US-20080104921-\$ or US-20050139745-\$ or US-20030205877-\$ or US-20030184034-\$ or US-20050242144-\$).did. or (US-20020020729-\$ or US-20200243925-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 21:57

	20170166352-\$ or US-20090127146-\$ or US-20180127007-\$ or US-20180111635-\$ or US-20130269844-\$ or US-20190000199-\$ or US-20120152800-\$ or US-20120074158-\$ or US-20110073516-\$ or US-20180229889-\$ or US-20170320621-\$ or US-20100052276-\$).did. or (US-10829269-\$ or US-D898320-\$ or US-D895966-\$ or US-10583962-\$ or US-D803560-\$ or US-10703534-\$ or US-D876833-\$ or US-9393684-\$ or US-8851282-\$ or US-8789699-\$ or US-7503569-\$ or US-10793172-\$ or US-RE47022-\$ or US-9050992-\$ or US-7367571-\$ or US-6170839-\$ or US-3711110-\$ or US-10071303-\$ or US-10843863-\$ or US-9500400-\$ or US-9522763-\$ or US-10093335-\$ or US-9409585-\$ or US-6095533-\$ or US-5599031-\$ or US-3376046-\$).did. or (US-10044203-\$ or US-6193247-\$ or US-D349994-\$ or US-D333094-\$ or US-9802741-\$ or US-7537119-\$ or US-8851287-\$ or US-9994375-\$ or US-5100076-\$ or US-1498377-\$ or US-3557990-\$ or US-D374654-\$ or US-D882952-\$ or US-D880859-\$ or US-10603783-\$ or US-5609282-\$ or US-5423445-\$ or US-9725209-\$ or US-9469024-\$ or US-8979100-\$ or US-8590704-\$ or US-7690856-\$ or US-10829268-\$ or US-D873017-\$ or US-8540326-\$ or US-8322354-\$ or US-8262993-\$).did. or (US-3201035-\$ or US-8490810-\$ or US-8342329-\$ or US-3081023-\$ or US-3030163-\$ or US-7322470-\$ or US-6082539-\$ or US-5934466-\$ or US-9132543-\$ or US-8590726-\$ or US-8210387-\$ or US-5375709-\$ or US-10723502-\$ or US-7350648-\$ or US-10219400-\$ or US-9888752-\$ or US-D897103-\$ or US-4643494-\$ or US-5740927-\$ or US-9975237-\$ or US-8939335-\$ or US-10137839-\$ or US-5078279-\$ or US-10709238-\$ or US-8678206-\$ or US-D817026-\$ or US-5524772-\$).did. or (US-5222701-\$ or US-4391376-\$ or US-10758065-\$ or US-9303792-\$ or US-9127807-\$ or US-5906302-\$ or US-5487518-\$ or US-10206502-\$ or US-9828073-\$ or US-5996949-\$ or US-D343975-\$ or US-5586739-\$ or US-8500078-\$ or US-9267624-\$ or US-8342474-\$ or US-8074945-\$ or US-7802680-\$ or US-10729244-\$ or US-7658265-\$ or US-10450799-\$ or US-10184292-\$ or US-7540560-\$ or US-6401862-\$ or US-4653713-\$ or US-10500714-\$ or US-10365032-\$ or US-8453796-\$).did. or (US-9850706-\$ or US-9714542-\$ or US-7270307-\$ or US-6837383-\$ or US-9596930-\$ or US-8517320-\$ or US-				
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		10412929-\$ or US-8893657-\$ or US-4634193-\$ or US-4231626-\$ or US-3743372-\$ or US-D714554-\$ or US-7866769-\$ or US-7100999-\$ or US-10286542-\$ or US-9526333-\$ or US-9510678-\$ or US-9185975-\$ or US-6050657-\$ or US-6027188-\$ or US-5775046-\$ or US-10842264-\$ or US-10676874-\$ or US-10555605-\$ or US-10501929-\$ or US-9661944-\$ or US-9108764-\$).did. or (US-8662120-\$ or US-8316781-\$ or US-9615671-\$ or US-7798338-\$ or US-6945414-\$ or US-10683963-\$ or US-7392912-\$ or US-10285515-\$ or US-5316252-\$ or US-10029275-\$ or US-3278146-\$ or US-1787734-\$ or US-7261264-\$ or US-6824028-\$ or US-4932538-\$ or US-4480755-\$ or US-7565746-\$ or US-7410289-\$ or US-6558222-\$ or US-6357194-\$ or US-6241248-\$ or US-6059631-\$ or US-5993283-\$ or US-4243279-\$ or US-D285986-\$ or US-3999818-\$ or US-3758181-\$).did. or (US-3514170-\$ or US-3203744-\$ or US-4003172-\$ or US-5454634-\$ or US-5046789-\$ or US-8894160-\$ or US-4863222-\$ or US-3851936-\$ or US-3552817-\$ or US-3606506-\$ or US-2800380-\$ or US-1294446-\$ or US-5240214-\$ or US-8991639-\$ or US-4805859-\$ or US-5035389-\$ or US-10017134-\$ or US-8448829-\$ or US-6036071-\$ or US-5653366-\$ or US-5332183-\$ or US-5282554-\$ or US-5105958-\$ or US-4929973-\$ or US-5957421-\$ or US-7699197-\$ or US-1794700-\$).did. or (US-6637707-\$ or US-4856658-\$ or US-6698632-\$ or US-5881891-\$ or US-5628443-\$ or US-10230077-\$ or US-8967379-\$ or US-7900757-\$ or US-6726075-\$ or US-4673070-\$ or US-3974898-\$ or US-5890613-\$ or US-6899346-\$ or US-9701443-\$ or US-1531542-\$ or US-6017075-\$ or US-5899544-\$ or US-5183307-\$ or US-4752095-\$ or US-5271515-\$ or US-4782619-\$ or US-9551367-\$ or US-9375835-\$ or US-5437502-\$ or US-6253948-\$ or US-8813960-\$).did. or (US-2830699-\$ or US-2563094-\$ or US-3278146-\$ or US-2997270-\$ or US-D238401-\$ or US-3514170-\$ or US-3552817-\$ or US-1294446-\$ or US-3182856-\$).did.				
S144	3	(("5628443") or ("3743372") or ("4805859")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 21:57

S145	39	(US-20200243925-\$ or US-20200165036-\$ or US-20190225371-\$ or US-20190168376-\$ or US-20180161975-\$ or US-20170266804-\$ or US-20170166352-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160194115-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20140161518-\$ or US-20130269844-\$ or US-20130193179-\$ or US-20120152800-\$ or US-20120074158-\$ or US-20110139665-\$ or US-20090127146-\$ or US-20080296443-\$ or US-20050242144-\$ or US-20050139745-\$).did. or (US-5628443-\$ or US-4805859-\$ or US-3743372-\$ or US-10758065-\$ or US-10017134-\$ or US-9132543-\$ or US-8448829-\$ or US-8316781-\$ or US-6726075-\$ or US-6698632-\$ or US-5957421-\$ or US-5890613-\$ or US-5775046-\$ or US-5653366-\$ or US-D343975-\$ or US-5282554-\$ or US-3514170-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/11/26 22:05
S146	430	(US-20200299027-\$ or US-20200243925-\$ or US-20180186513-\$ or US-20180099405-\$ or US-20160221177-\$ or US-20150034515-\$ or US-20120292213-\$ or US-20030094393-\$ or US-20020125072-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20140166516-\$).did. or (US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$ or US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$).did. or (US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 22:05

	US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$ or US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$).did. or (US- 20030205877-\$ or US-20030184034-\$ or US- 20030146589-\$ or US-20030115715-\$ or US- 20020171228-\$ or US-20020000440-\$ or US- 20200165036-\$ or US-20200147781-\$ or US- 20200055534-\$ or US-20190225371-\$ or US- 20190106244-\$ or US-20190039781-\$ or US- 20190031222-\$ or US-20190002004-\$ or US- 20180290288-\$ or US-20180220758-\$ or US- 20180161975-\$ or US-20180153312-\$ or US- 20180044059-\$ or US-20170349013-\$).did. or (US-D895375-\$ or US-D892565-\$ or US- D891875-\$ or US-D891195-\$ or US-D891193- \$ or US-D888503-\$ or US-D888422-\$ or US- D887788-\$ or US-D883752-\$ or US-D880951- \$ or US-D880252-\$ or US-10583962-\$ or US- D873085-\$ or US-D857387-\$ or US-D845081- \$ or US-D845080-\$ or US-D839681-\$ or US- D836995-\$ or US-D831352-\$ or US- 10106180-\$ or US-D806483-\$ or US- D803631-\$ or US-9725209-\$ or US-D784089- \$ or US-D777426-\$ or US-9506489-\$).did. or (US-D753396-\$ or US-D738105-\$ or US- D649350-\$ or US-D536580-\$ or US-D527225- \$ or US-6305498-\$ or US-D420860-\$ or US- D415393-\$ or US-D361511-\$ or US-D352208- \$ or US-D340167-\$ or US-D326815-\$ or US- D325324-\$ or US-5098235-\$ or US-D319016- \$ or US-4971201-\$ or US-D232798-\$ or US- 3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US- 0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$).did. or (US-10434638-\$ or US-2970358-\$ or US- 2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US- 0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US- 0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US- 0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US- 0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$).did. or (US-0206656-\$ or US-0205877-\$ or US- 0195793-\$ or US-0194543-\$ or US-0186624-\$				
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	or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$).did. or (US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$).did. or (US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$ or US-D871013-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-9750543-\$ or US-9701443-\$ or US-9643629-\$ or US-9616562-\$ or US-9566990-\$ or US-9511491-\$ or US-9132543-\$).did. or (US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$ or US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-7147243-\$ or US-7066475-\$).did. or (US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$ or US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-5988473-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-5429260-\$ or US-5301829-\$ or US-5240264-\$).did. or				
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		(US-5105947-\$ or US-5035445-\$ or US-4168076-\$ or US-3974898-\$ or US-3506321-\$ or US-3117692-\$).did. or (US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$).did. or (US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$).did. or (US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$).did. or (US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-3506321-\$ or US-3117692-\$).did.				
S147	24	S145 not S146	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 22:05

S148	26	("3334953" "4249684" "4938398" "4993771" "5255832" "5395019").PN. OR ("5653366").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:29
S149	7	("3334953").URPN.	USPAT	OR	ON	2021/03/04 18:30
S150	42	("0613226" "0637733" "0767823" "3613970" "3955729" "4056219" "4260086" "4315583" "4366922" "4415105" "4440332" "4542839" "4638933" "4730758" "4981243" "5024359" "5105958").PN. OR ("5282554").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:35
S151	19	("1446036" "3881677" "5035389" "5226625" "5282554" "5294012" "5356105" "6637707" "6824114").PN. OR ("7837165").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:36
S152	97	("2708088" "3878589" "3915189" "3931893" "4450989" "4461445" "4858869" "5026016" "5035389" "5078279" "5344032" "5356038" "5433416" "5435511" "5452874" "5765699" "5915572" "D329192" "D386298" "D386304").PN. OR ("6637707").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:38
S153	184	("10434638" "20020000440" "20020171228" "20030115715" "20030146589" "20030184034" "20030205877" "20040103494" "20040195793" "20040206656" "20050062244" "20050104308" "20050139745" "20060006770" "20060027475" "20060038367" "20060119060" "20060186624" "20060254946" "20070068757" "20070090616" "20070145700" "20070194543" "20080104921" "20080115312" "20080121547" "20080134607" "20080169739" "20080271280" "20080277221" "20080308369" "20090026901" "20090071990" "20090145790" "20090145866" "20090145913" "20090178946" "20100052276" "20100139566" "20100147642" "20100219193" "20110073516" "20110139665" "20110155613" "20110181008" "20110220531" "20120160886" "20120180250" "20120207571" "20120326406" "20130024468" "20130031731"	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:38

		"20130031732" "20130121783" "20130127129" "20130154218" "20130223971" "20140076759" "20140161518" "20140166516" "20150274362" "20150376917" "20160023349" "20160130034" "20160144500" "20160168880" "20170121056" "20170138382" "20170165828" "20170166352" "20170174392" "20170217464" "20170239808" "20170257958" "20170266804" "20170318927" "20170349013" "20180044059" "20180161975" "20180220758" "20180290288" "20190002004" "20190031222" "20190039781" "20190106244" "20190225371" "20200055534" "2042387" "2430200" "2970358" "3117692" "3506321" "3974898" "4168076" "5035445" "5105947").PN. OR ("5240264" "5301829" "5429260" "5595228" "5608603" "5628443" "5797617" "5951037" "5988473" "6050660" "6085925" "6109627" "6176559" "6347847" "6367631" "6371320" "6431580" "6547347" "6601930" "6619772" "6637707" "6641013" "6945546" "6948691" "6983946" "7044484" "7066475" "7147243" "7263742" "7367571" "7503569" "7658887" "7779764" "7780026" "7841144" "8028845" "8132819" "8177463" "8191910" "8454033" "8459495" "8505729" "8567796" "8677661" "8689396" "8714355" "8813960" "8875888" "8979100" "8985922" "9132543" "9506489" "9511491" "9566990" "9616562" "9643629" "9701443" "9872562" "D395533" "D437669" "D456972" "D525789" "D630851" "D653832" "D661858" "D663952" "D664354" "D674605" "D701696" "D738106" "D753394" "D753395" "D765974" "D770179" "D790221" "D814187" "D816334" "D826510" "D828671" "D833744" "D837515" "D871013").PN. OR ("D898320").URPN.				
S154	8	("2019/0225371").URPN.	USPAT	OR	ON	2021/03/04 19:01

S155	172	("10434638" "20020000440" "20020171228" "20030115715" "20030146589" "20030184034" "20030205877" "20040103494" "20040195793" "20040206656" "20050062244" "20050104308" "20050139745" "20060006770" "20060027475" "20060038367" "20060119060" "20060186624" "20060254946" "20070068757" "20070090616" "20070145700" "20070194543" "20080104921" "20080115312" "20080121547" "20080134607" "20080169739" "20080271280" "20080277221" "20080308369" "20090026901" "20090071990" "20090145790" "20090145866" "20090145913" "20090178946" "20100052276" "20100139566" "20100147642" "20100219193" "20110073516" "20110139665" "20110155613" "20110181008" "20110220531" "20120160886" "20120180250" "20120207571" "20120326406" "20130024468" "20130031731" "20130031732" "20130121783" "20130127129" "20130223971" "20140161518" "20140166516" "20150376917" "20160023349" "20160130034" "20160144500" "20160168880" "20170121056" "20170138382" "20170165828" "20170166352" "20170174392" "20170217464" "20170239808" "20170257958" "20170266804" "20170318927" "20180044059" "20180161975" "20180186513" "20180220758" "20180290288" "20190002004" "20190039781" "20190106244" "20190225371" "2042387" "2430200" "2970358" "3117692" "3506321" "3974898" "4168076" "5035445" "5105947" "5240264" "5301829" "5429260" "5595228" "5608603" "5628443" "5797617").PN. OR ("5951037" "5988473" "6050660" "6085925" "6109627" "6176559" "6347847" "6367631" "6371320" "6431580" "6547347" "6601930" "6619772" "6637707" "6641013" "6945546" "6948691" "6983946" "7044484" "7066475" "7147243"	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:02
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S156	8	("2017/0138382").URPN.	USPAT	OR	ON	2021/03/04 19:03
S157	26	("2003/0205877").URPN.	USPAT	OR	ON	2021/03/04 19:05
S158	34	("1787734" "2174140" "3543432" "3622116" "3802652" "3870259" "4088848" "4157803" "4176580" "4468878" "5014458" "5063702" "5086958" "5321904" "5463973" "6637707").PN. OR ("7172164").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:18
S159	16	("7172164" "7673838" "D321885" "D329192" "D411931" "D551008" "D572117" "D635008").PN. OR ("D753982").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:19
S160	34	("0606208" "10258136" "1252207" "20030218110" "20060186304" "20060261223" "20080083865" "20100090857" "3529799" "3622116" "4176580" "4620736" "5026016" "5425524" "5433416" "5806822" "5833205" "6082688" "6142892" "6457687" "6481679" "6779766" "6811348" "7273203" "8011071" "8096026" "D329192" "D753982").PN. OR ("10400949").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:19
S161	5	("2006/0186304").URPN.	USPAT	OR	ON	2021/03/04 19:20
S162	86	("20060186304" "20070039907" "20080209698" "20080237282" "20130168429" "20130232840" "3878589" "3912216" "4132335" "4419794" "4458872" "5014892" "5054170" "5549234" "5605313" "5687942"	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:20

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S163	15	("5026016" "5433416" "6176641" "6200062" "8474768" "8544805" "D329192" "D547637" "D604149" "D635008" "D658972").PN. OR ("D704035").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:22
S164	18	("2793407" "3090086" "3547472" "4014618").PN. OR ("6200062").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:23
S165	23	("2793407").URPN.	USPAT	OR	ON	2021/03/04 19:24
S166	8	((("0593330") or ("1182610") or ("1265113") or ("2457002")).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2021/03/04 19:25
S167	43	("1949114" "2244427").PN. OR ("D329192").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:28
S168	109	("20070170330" "20070294905" "20090044825" "20100054724" "20100132122" "3564984" "3640497" "3860209" "3908949" "3960352" "4026508" "4176815" "4400856" "4527760" "4747570" "5026016" "5375749" "5433416" "5626435" "5857713" "6119878" "6161741" "6302617" "6371424" "6409475" "6481684" "6519144" "6554238" "6637707" "6702604" "6758454" "6840639" "7066435" "7077372"	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:30

		"7172164" "7261264" "7270309" "7594823" "7673838" "7726706" "8215605" "8292521" "8333353" "D329192" "D380219" "D658972").PN. OR ("8544805").URPN.				
S169	23	("4098423" "4216857" "4561544" "4612603" "4627589").PN. OR ("4747570").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:34
S170	49	(US-20190168376-\$ or US-20120074158-\$ or US-20090127146-\$ or US-20080296443-\$ or US-20050242144-\$ or US-20190225371-\$ or US-20170138382-\$ or US-20070090616-\$ or US-20050139745-\$ or US-20180290288-\$ or US-20060186304-\$ or US-20100054724-\$ or US-20070170330-\$).did. or (US-10758065-\$ or US-8448829-\$ or US-5957421-\$ or US- 5890613-\$ or US-5775046-\$ or US-5653366-\$ or US-5282554-\$ or US-4805859-\$ or US- 3743372-\$ or US-3514170-\$ or US-5628443-\$ or US-6666362-\$ or US-7837165-\$ or US- 6637707-\$ or US-D898320-\$ or US-7172164-\$ or US-D753982-\$ or US-10400949-\$ or US- D847609-\$ or US-D704035-\$ or US-D818801- \$ or US-D547637-\$ or US-6200062-\$ or US- 2793407-\$ or US-10138917-\$ or US-4019298- \$).did. or (US-3589755-\$ or US-5433416-\$ or US-D329192-\$ or US-5026016-\$ or US- 9683696-\$ or US-8544805-\$ or US-8215605-\$ or US-7261264-\$ or US-4747570-\$ or US- D380219-\$).did.	US- PGPUB; USPAT	OR	ON	2021/03/08 23:29
S171	17	("10758065" "20050242144" "20080296443" "20090127146" "20120074158" "20190168376" "3514170" "3743372" "4805859" "5282554" "5628443" "5653366" "5775046" "5890613" "5957421" "8448829").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/08 23:29
S172	33	S170 not S171	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/08 23:29
S173	76	(US-0014949-\$ US-0025706-\$ US- 0029543-\$ US-0031975-\$ US-0039831-\$ US-0069832-\$ US-0080432-\$ US-0094392- \$ US-0123478-\$ US-0139777-\$ US- 0151427-\$ US-0152944-\$ US-0223585-\$ US-0224528-\$ US-0229889-\$ US-0346819- \$ US-1084360-\$ US-10603783-\$ US- 10703534-\$ US-10750833-\$ US-10793172- \$ US-10829269-\$ US-10933501-\$ US- 10981696-\$ US-20030094392-\$ US-	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:13

		20100224528-\$ US-20110139777-\$ US-20120080432-\$ US-20120152944-\$ US-20140069832-\$ US-20140123478-\$ US-20150014949-\$ US-20150151427-\$ US-20180229889-\$ US-20200029543-\$ US-20200223585-\$ US-20200346819-\$ US-20210025706-\$ US-20210031975-\$ US-20210039831-\$ US-3424334-\$ US-3999818-\$ US-4122925-\$ US-4243279-\$ US-4673070-\$ US-5325966-\$ US-5375709-\$ US-5429235-\$ US-6082539-\$ US-6889838-\$ US-7152752-\$ US-7219969-\$ US-7690856-\$ US-8602217-\$ US-8640913-\$ US-8925752-\$ US-D285986-\$ US-D738622-\$).DID.				
S174	3	("2018/0229889").URPN.	USPAT	OR	ON	2021/09/24 22:14
S175	1	"20180127007".pn.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:26
S176	24	("2018/0127007").URPN.	USPAT	OR	ON	2021/09/24 22:26
S177	21	("2696962" "4929973" "5035389" "5040712" "5129613" "5282554" "5332183" "5356105" "5653366" "5730348" "5730406" "6036071" "6315182" "7225958" "8020821").PN. OR ("8448829").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:28
S178	8	("20090256040" "20140110546" "20150102191" "4733330" "5740995" "8448829" "9581416" "9810911").PN. OR ("10487978").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:28
S179	1	("2015/0102191").URPN.	USPAT	OR	ON	2021/09/24 22:29
S180	45	("1252207" "20060186290" "20070097617" "20070170336" "20070230102" "20080105803" "2174140" "5730406" "5833189" "5850996" "6173931" "6315255" "6371424" "6431510" "6702604" "6758454" "6877641" "7261264" "7334762" "7455271" "7499272" "7673838").PN. OR ("8020821").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:29
S181	5	("2008/0105803").URPN.	USPAT	OR	ON	2021/09/24 22:30
S182	642	G06F1/18.cpc.	USPAT	OR	ON	2021/09/24 22:30

S183	1,229	G06F1/18.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:31
S184	9,466	F16M13/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:31
S185	1,607	Y10S248/917.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:31
S186	59	("4088848" "4419794" "5026016" "5035389" "5054170" "5375749" "5428866" "5567038" "5593121" "5604958" "5622296" "5729869").PN. OR ("5957421").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:32
S187	67	("1519380" "20020170933" "2543313" "3261519" "3370236" "3743147" "3878589" "4419794" "4479596" "4598027" "4676420" "4718586" "4754528" "4819847" "4858798" "4929116" "5014892" "5016326" "5025966" "5054170" "5201858" "5213240" "5230159" "5253292" "5480115" "5528770" "5577303" "5584423" "5597102" "5622296" "5664292" "5730342" "5850954" "5850996" "5898647" "5957421" "5995622" "5996184" "6098858" "6141417" "6176401" "6283348" "6364184" "6443340" "6722539" "6824028" "6955279" "6955280" "7070049" "D443199").PN. OR ("8499986").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:33
S188	32	("20030000976" "4083481" "4598027" "5025966" "5213240" "5347693" "5730342" "5791019" "5829102" "6283348" "6286737").PN. OR ("6824028").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:34
S189	43	("20010054217" "20020158096" "20020170148" "20030000976" "20030047575" "20030141329" "20030162510" "20040204169" "5274885" "5597102" "5730342" "5779115" "5833100" "5850954" "5850996" "5927580" "6006969" "6205222" "6223788" "6283348" "6286737" "6443340" "6714767" "6736136" "6824028" "6955279" "6955280"	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:36

		"D478418" "D492108").PN. OR ("7032791").URPN.				
S190	28	("20020010983" "20030047575" "20070056999" "20070125819" "20080277546" "20080283701" "4419794" "5729869" "5743451" "5850996" "6062449" "6443342" "6454147" "6641011" "6655560" "6848605" "6880794" "7032791" "7959121" "RE38035").PN. OR ("9072364").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:37
S191	90	("4419794" "4897900" "5014892" "5054170" "5375749" "5584423" "5597102").PN. OR ("5850996").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:38
S192	9	("10165851" "10222172" "10271634" "5850996" "6098858" "6286737" "6786372" "8613564" "8919623").PN. OR ("11047644").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:39
S193	10	("20080216380" "20090013580" "20090293334" "20100176174" "5730342" "5850996" "6371424" "7458489" "8166694").PN. OR ("10222172").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:40
S194	108	("3631572" "4624034" "5274885" "5375749" "5620120" "5622296").PN. OR ("5730342").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:41
S195	9	("20020005421" "20020158096" "20030122002" "20070107169" "5730342" "5839173" "5850954" "5919623").PN. OR ("10124848").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:46
S196	33	("20020195472" "20080209698" "20100071168" "20110076095" "20110083353" "20120030986" "20120174286" "5201858" "5642847" "5669170" "5673836" "5718363" "5730342" "5850996" "5991925" "6266910" "6325258" "6363532" "6517133" "6736136" "6824028" "7841496" "8166694" "D562549" "D577093").PN. OR ("8613564").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:49
S197	6	("2010/0071168").URPN.	USPAT	OR	ON	2021/09/24 22:51
S198	10	("20030042279" "20060246963" "20100071168" "6736136" "8613564" "8919622").PN. OR ("9101198").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:52
S199	2	("2006/0246963").URPN.	USPAT	OR	ON	2021/09/24 22:52

S200	32	("20100294816" "20140027477" "20140042195" "3956701" "4419794" "5014892" "5054170" "5375749" "5584423" "5593121" "5604958" "5620120" "5641102" "5850996" "6006969" "6098858" "6286737" "6786372" "7409237" "7959121" "7980435" "8231094" "8613564").PN. OR ("8919622").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:54
S201	40	("4419794" "4485946" "5054170" "5081709" "5261122" "5540368").PN. OR ("5584423").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:56
S202	22	("4356943" "4881150" "5540368" "5584423" "5996184" "6038742" "6149043").PN. OR ("6438808").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:01
S203	14	("20040003809" "20040079365" "20050097709" "20050274380" "20100031481" "20120036682" "5730342" "5906031" "6318610" "6438808" "6736136" "7222621" "8156616" "8806726").PN. OR ("9233742").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:02
S204	19	("2326558" "3984191" "4419794" "5347693" "5622296" "5839173").PN. OR ("6038742").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:04
S205	79	("1519380" "2502034" "3631572" "4419794" "5026016" "5054170" "5201858" "5274885" "5375749").PN. OR ("5622296").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:07
S206	58	("20050092801" "4093293" "4660793" "4720611" "4789128" "5054170" "5188325" "5201858" "5347693" "5620120" "5622296" "5850996" "6059156" "6098858" "6155524" "6189489" "6371424" "7077372").PN. OR ("7261264").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:09
S207	109	("20070170330" "20070294905" "20090044825" "20100054724" "20100132122" "3564984" "3640497" "3860209" "3908949" "3960352" "4026508" "4176815" "4400856" "4527760" "4747570" "5026016" "5375749" "5433416" "5626435" "5857713" "6119878" "6161741" "6302617" "6371424" "6409475" "6481684" "6519144" "6554238" "6637707" "6702604" "6758454" "6840639" "7066435" "7077372"	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:11

		"7172164" "7261264" "7270309" "7594823" "7673838" "7726706" "8215605" "8292521" "8333353" "D329192" "D380219" "D658972").PN. OR ("8544805").URPN.				
S208	28	("1081378" "20090256037" "3424421" "3540687" "3822049" "3927315" "3989215" "4332052" "4467990" "4613135" "5129613" "5146631" "5232191" "5251959" "5707033" "5865562" "7077372" "7134635" "8544805" "D329192").PN. OR ("9683696").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:13
S209	51	("20050092801" "20050121576" "4093293" "4660793" "4720611" "4789128" "5054170" "5188325" "5201858" "5347693" "5620120" "5622296" "5850996" "6059156" "6098858" "6155524" "6189489" "6371424").PN. OR ("7077372").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:15
S210	126	("1519380" "3743147" "3797717" "3878589" "4419794" "4587818" "4605335" "4619020" "4676420" "4718586" "4754528" "4757927" "4821934").PN. OR ("5054170").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:19
S211	141	("0690277" "1423590" "2637885" "3170209").PN. OR ("4419794").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:24
S212	40	("1284422" "1522957" "2786678" "3788642" "4133509" "4150381" "4176580" "4218058" "4348022" "4397464").PN. OR ("4613135").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:30
S213	5	("1081378").URPN.	USPAT	OR	ON	2021/09/24 23:33
S214	82	("1949114" "20020011544" "20040011938" "20040031894" "20050085123" "20050127260" "20060057887" "20060126284" "20070170330" "20070294905" "20080232044" "20110210227" "2244427" "3046843" "3960352" "4747570" "5026016" "5433416" "5812368" "5966881" "6119878" "6400560" "6409475" "6519144" "6554238" "6702604" "6758454" "6935883" "7066435" "7172164" "7225471" "7270309" "7317613" "7334762" "7390211" "7404535" "7413371" "7481407" "7594632" "7594823"	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:34

		"7673838" "8059399" "8083193" "D275074" "D275177" "D329192" "D380219" "D397984" "D492187" "D559657" "D587640" "D628607" "D635008" "D637599").PN. OR ("D658972").URPN.				
S215	30	("5224610" "5904328" "6050322" "6220461" "7066435").PN. OR ("7270309").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:38
S216	30	("5224610" "5904328" "6050322" "6220461" "7066435").PN. OR ("7270309").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:40
S217	45	("0269538" "10064523" "20020092817" "20020148795" "20030168417" "20050284991" "20060261021" "20080047913" "20080053935" "20110168857" "20150325991" "4387811" "4662524" "5080238" "5537289" "5683010" "6065613" "6089387" "6386379" "6464087" "6484747" "6520351" "6564950" "6729479" "7090085" "7270309" "7527157" "7611034" "7871581" "7959020" "9345322" "D027014" "D315840" "D367790" "D376941" "D400745" "D473084" "D564271" "D564816" "D568657" "D572061" "D572062" "D632514").PN. OR ("10849705").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:41
S218	50	("20020144962" "2779114" "3650407" "4019298" "4564732" "4595226" "4629065" "4807763" "4882862" "4936467" "5035389" "5203462" "5244300" "5356038" "5413228" "5433416" "5435511" "5664793" "5706737" "5819456" "5823360" "5871092" "5871105" "6053340" "6637707" "6932223").PN. OR ("7090085").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:43
S219	95	("0314591" "0331565" "0955260" "1601054" "20010032910" "20020166275" "20030029893" "20030226861" "20050023233" "20070056918" "20080163528" "20080164232" "20080296240" "20080301988" "20090194495" "20100270440" "20120112022" "20150154895" "20180226000" "2937759" "4009532" "4268984" "4339045" "4436267" "4460142" "4574507" "4805782"	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:46

		"4997997" "5020759" "5022174" "5244102" "5411144" "5419362" "5480073" "5488656" "5538144" "5630516" "5813546" "5921011" "5921403" "6003804" "6059215" "6079675" "6112909" "6311879" "6338213" "6547204" "6834813" "7090085" "7168577" "7455258" "7665616" "7828254" "8529184" "9161644" "9649547" "D037306" "D184994" "D207246" "D240486" "D322746" "D329194" "D351552" "D462254" "D462603" "D554979" "D561009" "D571190" "D600067" "D629671" "D639147" "D646555" "D724934" "D735560" "D763665" "D764259" "D785380" "D793209" "D798131" "D807733" "D808776" "D813649").PN. OR ("10264896").URPN.				
S220	17	("3724085" "4018339" "4228982" "4283038" "4597554" "4712761" "5303895" "5584462" "5791625" "5802729" "6286802" "6637707" "7090085").PN. OR ("7293754").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:48
S221	61	("4132380" "4307864" "4524938" "4974798").PN. OR ("5035389").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:51
S222	20	("1446036" "3881677" "5035389" "5226625" "5282554" "5294012" "5356105" "6637707" "6824114").PN. OR ("7837165").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:54
S223	13	("20050139745" "4660793" "5035389" "5433416" "5452874" "5608603" "5924790" "6237886" "6520463" "6637707").PN. OR ("7490800").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:56
S224	34	("0495537" "0541864" "4632348" "4679709" "4948085" "5035389" "5060898" "5226625").PN. OR ("5356105").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:59
S225	53	("1794700" "20050077385" "20050178941" "20050224539" "20060081749" "20060086876" "20060231717" "20070045492" "20070108213" "20080142674" "20080283556" "20100176261" "2427335" "2605021" "2754991" "3212660" "3224644" "4088250" "4579309" "4679709" "5145139" "5226625" "5326006" "5356105" "5406816"	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/25 00:00

		"5480115" "5492238" "5494250" "5549074" "5669329" "5813644" "5934222" "5947322" "5992698" "6095470" "6318687" "6321943" "6427958" "6557206" "6572063" "6983918" "7234673" "D394933").PN. OR ("8833596").URPN.				
S226	21	("1840138" "1894146" "2897928" "2939613" "3389883").PN. OR ("4132380").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/25 00:23
S227	21	("1840138" "1894146" "2897928" "2939613" "3389883").PN. OR ("4132380").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/25 00:24
S228	27	("2680000" "3608127" "3685852" "3935613" "3987875" "4422212" "4589530" "4817237").PN. OR ("5428866").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 14:55
S229	19	("3423786" "3685852" "4731903").PN. OR ("4817237").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 14:57
S230	27	("1709972" "2782045" "2790196" "3608127").PN. OR ("3935613").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 14:58
S231	27	("1709972" "2782045" "2790196" "3608127").PN. OR ("3935613").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:00
S232	7	("1709972").URPN.	USPAT	OR	ON	2021/09/26 15:01
S233	356	16/30.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:15
S234	187	A45C5/143.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:15
S235	2,457	B60B33/0002.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:15
S236	1,559	B62B5/0083.cpc.	US- PGPUB;	OR	ON	2021/09/26 15:16

			USPAT; USOCR			
S237	569	B62B2202/24,10.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:16
S238	419	Y10T16/191.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:16
S240	1,147	248/222.11,223.41.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:20
S241	8	("2005/0103959").URPN.	USPAT	OR	ON	2021/09/26 15:22
S242	13	("20050085123" "20050103959" "20050127017" "20120104200" "20120125873" "20130182381" "4176580" "4620736" "5026016" "5244300" "6109461" "6481679" "7172164").PN. OR ("11071384").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:23
S243	30	("4957264" "6491268" "6585212" "6621704" "6817587" "6896046" "7032872" "7544889" "7551458").PN. OR ("8201788").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:26
S244	44	("2680000" "2897928" "3631572" "3881677" "4346868" "4618081" "4948085" "5181774").PN. OR ("5332183").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:33
S245	1,649	248/222.13,187.1,223.41.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:34
S246	741	16/29,257.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:46
S247	1,201	190/18A.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:46
S249	0	248/187.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:27

S250	75	"4929973"	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:28
S251	1	("4929973").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/26 16:28
S252	887	248/177.1,187.1.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:28
S253	729	396/419.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:28
S254	0	F16M11/-041	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:29
S255	0	F16M11/0041.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:29
S256	5,360	F16M13/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:29
S257	916	F16M2200/028.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:30
S258	13	("4430771" "4731903" "4817237" "4839940" "5054164").PN. OR ("5343595").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:39
S259	21	("3423786").URPN.	USPAT	OR	ON	2021/09/26 16:40
S260	4	((("2621361") or ("0546909")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/26 16:41
S261	7	("1709972").URPN.	USPAT	OR	ON	2021/09/26 16:43
S262	11	("2005/0015928").URPN.	USPAT	OR	ON	2021/09/26 17:13

S263	56	("2262287" "2696962" "3349443" "3388884" "3495896" "3692266" "4077597" "4217710").PN. OR ("4340199").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 17:19
S264	8	("2127230").URPN.	USPAT	OR	ON	2021/09/26 17:24
S265	104	(US-20190225371-\$ or US-20180290288-\$ or US-20170138382-\$ or US-20180127007-\$ or US-20150102191-\$ or US-20080105803-\$ or US-20020170933-\$ or US-20100071168-\$ or US-20060246963-\$ or US-20050092801-\$ or US-20100176261-\$ or US-20050103959-\$ or US-20050015928-\$).did. or (US-D898320-\$ or US-D753982-\$ or US-6637707-\$ or US-5433416-\$ or US-8448829-\$ or US-10487978-\$ or US-8020821-\$ or US-9404615-\$ or US-5957421-\$ or US-8499986-\$ or US-6824028-\$ or US-10683963-\$ or US-7032791-\$ or US-5850996-\$ or US-11047644-\$ or US-10222172-\$ or US-6371424-\$ or US-5730342-\$ or US-10124848-\$ or US-5850954-\$ or US-8613564-\$ or US-9101198-\$ or US-8919622-\$ or US-6098858-\$ or US-5593121-\$ or US-5584423-\$).did. or (US-6438808-\$ or US-D927956-\$ or US-9233742-\$ or US-6038742-\$ or US-5839173-\$ or US-5622296-\$ or US-7261264-\$ or US-10568393-\$ or US-8544805-\$ or US-9683696-\$ or US-7077372-\$ or US-10835060-\$ or US-9765806-\$ or US-8011071-\$ or US-5054170-\$ or US-D700502-\$ or US-D438536-\$ or US-5577303-\$ or US-4613135-\$ or US-5386961-\$ or US-4176580-\$ or US-1081378-\$ or US-D658972-\$ or US-D559657-\$ or US-7270309-\$ or US-10849705-\$ or US-7090085-\$).did. or (US-5080238-\$ or US-10264896-\$ or US-5664793-\$ or US-5356038-\$ or US-5035389-\$ or US-7490800-\$ or US-5356105-\$ or US-8833596-\$ or US-5934222-\$ or US-5226625-\$ or US-6481679-\$ or US-0495537-\$ or US-4132380-\$ or US-5022174-\$ or US-4929973-\$ or US-7172164-\$ or US-5664292-\$ or US-5428866-\$ or US-6988846-\$ or US-4817237-\$ or US-3935613-\$ or US-1709972-\$ or US-11071384-\$ or US-4620736-\$ or US-5026016-\$ or US-8201788-\$ or US-9653050-\$).did. or (US-7802766-\$ or US-6082688-\$ or US-5687942-\$ or US-5332183-\$ or US-5343595-\$ or US-3989128-\$ or US-4340199-\$ or US-2124541-\$).did. or (US-2939613-\$ or US-3423786-\$ or US-1709972-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 17:41

S266	457	Y10T16/5357.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 17:45
S267	104	(US-20190225371-\$ or US-20180290288-\$ or US-20170138382-\$ or US-20180127007-\$ or US-20150102191-\$ or US-20080105803-\$ or US-20020170933-\$ or US-20100071168-\$ or US-20060246963-\$ or US-20050092801-\$ or US-20100176261-\$ or US-20050103959-\$ or US-20050015928-\$).did. or (US-D898320-\$ or US-D753982-\$ or US-6637707-\$ or US-5433416-\$ or US-8448829-\$ or US-10487978-\$ or US-8020821-\$ or US-9404615-\$ or US-5957421-\$ or US-8499986-\$ or US-6824028-\$ or US-10683963-\$ or US-7032791-\$ or US-5850996-\$ or US-11047644-\$ or US-10222172-\$ or US-6371424-\$ or US-5730342-\$ or US-10124848-\$ or US-5850954-\$ or US-8613564-\$ or US-9101198-\$ or US-8919622-\$ or US-6098858-\$ or US-5593121-\$ or US-5584423-\$).did. or (US-6438808-\$ or US-D927956-\$ or US-9233742-\$ or US-6038742-\$ or US-5839173-\$ or US-5622296-\$ or US-7261264-\$ or US-10568393-\$ or US-8544805-\$ or US-9683696-\$ or US-7077372-\$ or US-10835060-\$ or US-9765806-\$ or US-8011071-\$ or US-5054170-\$ or US-D700502-\$ or US-D438536-\$ or US-5577303-\$ or US-4613135-\$ or US-5386961-\$ or US-4176580-\$ or US-1081378-\$ or US-D658972-\$ or US-D559657-\$ or US-7270309-\$ or US-10849705-\$ or US-7090085-\$).did. or (US-5080238-\$ or US-10264896-\$ or US-5664793-\$ or US-5356038-\$ or US-5035389-\$ or US-7490800-\$ or US-5356105-\$ or US-8833596-\$ or US-5934222-\$ or US-5226625-\$ or US-6481679-\$ or US-0495537-\$ or US-4132380-\$ or US-5022174-\$ or US-4929973-\$ or US-7172164-\$ or US-5664292-\$ or US-5428866-\$ or US-6988846-\$ or US-4817237-\$ or US-3935613-\$ or US-1709972-\$ or US-11071384-\$ or US-4620736-\$ or US-5026016-\$ or US-8201788-\$ or US-9653050-\$).did. or (US-7802766-\$ or US-6082688-\$ or US-5687942-\$ or US-5332183-\$ or US-5343595-\$ or US-3989128-\$ or US-4340199-\$ or US-2124541-\$).did. or (US-2939613-\$ or US-3423786-\$ or US-1709972-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:20
S268	2	((("3935613") or ("5664292"))).PN.	US-PGPUB;	OR	OFF	2021/09/26 20:20

			USPAT; USOCR			
S269	24	(US-20190225371-\$ or US-20180127007-\$ or US-20100176261-\$ or US-20050015928-\$).did. or (US-5664292-\$ or US-3935613-\$ or US-D898320-\$ or US-10222172-\$ or US-7090085-\$ or US-7077372-\$ or US-6371424-\$ or US-6098858-\$ or US-5957421-\$ or US-5850996-\$ or US-5622296-\$ or US-5356105-\$ or US-5356038-\$ or US-4929973-\$ or US-4817237-\$ or US-2124541-\$ or US-1081378-\$ or US-0495537-\$).did. or (US-3423786-\$ or US-2939613-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:25
S270	430	(US-20200299027-\$ or US-20200243925-\$ or US-20180186513-\$ or US-20180099405-\$ or US-20160221177-\$ or US-20150034515-\$ or US-20120292213-\$ or US-20030094393-\$ or US-20020125072-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20140166516-\$).did. or (US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$ or US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$).did. or (US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$ or US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:25

	US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$).did. or (US- 20030205877-\$ or US-20030184034-\$ or US- 20030146589-\$ or US-20030115715-\$ or US- 20020171228-\$ or US-20020000440-\$ or US- 20200165036-\$ or US-20200147781-\$ or US- 20200055534-\$ or US-20190225371-\$ or US- 20190106244-\$ or US-20190039781-\$ or US- 20190031222-\$ or US-20190002004-\$ or US- 20180290288-\$ or US-20180220758-\$ or US- 20180161975-\$ or US-20180153312-\$ or US- 20180044059-\$ or US-20170349013-\$).did. or (US-D895375-\$ or US-D892565-\$ or US- D891875-\$ or US-D891195-\$ or US-D891193- \$ or US-D888503-\$ or US-D888422-\$ or US- D887788-\$ or US-D883752-\$ or US-D880951- \$ or US-D880252-\$ or US-10583962-\$ or US- D873085-\$ or US-D857387-\$ or US-D845081- \$ or US-D845080-\$ or US-D839681-\$ or US- D836995-\$ or US-D831352-\$ or US- 10106180-\$ or US-D806483-\$ or US- D803631-\$ or US-9725209-\$ or US-D784089- \$ or US-D777426-\$ or US-9506489-\$).did. or (US-D753396-\$ or US-D738105-\$ or US- D649350-\$ or US-D536580-\$ or US-D527225- \$ or US-6305498-\$ or US-D420860-\$ or US- D415393-\$ or US-D361511-\$ or US-D352208- \$ or US-D340167-\$ or US-D326815-\$ or US- D325324-\$ or US-5098235-\$ or US-D319016- \$ or US-4971201-\$ or US-D232798-\$ or US- 3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US- 0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$).did. or (US-10434638-\$ or US-2970358-\$ or US- 2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US- 0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US- 0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US- 0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US- 0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$).did. or (US-0206656-\$ or US-0205877-\$ or US- 0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US- 0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US- 0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US- 0161975-\$ or US-0161518-\$ or US-0160886-\$				
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	or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$).did. or (US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$).did. or (US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$ or US-D871013-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-9750543-\$ or US-9701443-\$ or US-9643629-\$ or US-9616562-\$ or US-9566990-\$ or US-9511491-\$ or US-9132543-\$).did. or (US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$ or US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-7147243-\$ or US-7066475-\$).did. or (US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$ or US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-5988473-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-5429260-\$ or US-5301829-\$ or US-5240264-\$).did. or (US-5105947-\$ or US-5035445-\$ or US-4168076-\$ or US-3974898-\$ or US-3506321-\$ or US-3117692-\$).did. or (US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-				
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		0099405-\$ or US-0094393-\$ or US-0034515-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$).did. or (US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$).did. or (US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$).did. or (US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-3506321-\$ or US-3117692-\$).did.				
S271	16	(US-20190168376-\$ or US-20120074158-\$ or US-20090127146-\$ or US-20080296443-\$ or US-20050242144-\$).did. or (US-10758065-\$ or US-8448829-\$ or US-5957421-\$ or US-5890613-\$ or US-5775046-\$ or US-5653366-\$ or US-5282554-\$ or US-4805859-\$ or US-3743372-\$ or US-3514170-\$ or US-5628443-\$).did.	US-PGPUB; USPAT	OR	ON	2021/09/26 20:25

S272	7	(US-20190225371-\$ or US-20180290288-\$ or US-20170138382-\$).did. or (US-D898320-\$ or US-D753982-\$ or US-6637707-\$ or US-5433416-\$).did.	US-PGPUB; USPAT	OR	ON	2021/09/26 20:25
S273	430	(US-20200299027-\$ or US-20200243925-\$ or US-20200165036-\$ or US-20200147781-\$ or US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20180186513-\$ or US-20180161975-\$ or US-20180153312-\$ or US-20180099405-\$ or US-20180044059-\$ or US-20170349013-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$).did. or (US-20170138382-\$ or US-20170121056-\$ or US-20160221177-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20150034515-\$ or US-20140166516-\$ or US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120292213-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$).did. or (US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$ or US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$).did. or (US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$ or US-20030205877-\$ or US-20030184034-\$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:26

	20030146589-\$ or US-20030115715-\$ or US-20030094393-\$ or US-20020171228-\$ or US-20020125072-\$ or US-20020000440-\$).did. or (US-D895375-\$ or US-D892565-\$ or US-D891875-\$ or US-D891195-\$ or US-D891193-\$ or US-D888503-\$ or US-D888422-\$ or US-D887788-\$ or US-D883752-\$ or US-D880951-\$ or US-D880252-\$ or US-10583962-\$ or US-D873085-\$ or US-D871013-\$ or US-10434638-\$ or US-D857387-\$ or US-D845081-\$ or US-D845080-\$ or US-D839681-\$ or US-D836995-\$ or US-D831352-\$ or US-10106180-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-D806483-\$).did. or (US-D803631-\$ or US-9750543-\$ or US-9725209-\$ or US-9701443-\$ or US-9643629-\$ or US-D784089-\$ or US-9616562-\$ or US-9566990-\$ or US-D777426-\$ or US-9511491-\$ or US-9506489-\$ or US-D753396-\$ or US-9132543-\$ or US-D738105-\$ or US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$).did. or (US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-D649350-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-D536580-\$ or US-7147243-\$ or US-D527225-\$ or US-7066475-\$ or US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$).did. or (US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6305498-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-D420860-\$ or US-5988473-\$ or US-D415393-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-D361511-\$ or US-5429260-\$ or US-D352208-\$ or US-5301829-\$ or US-D340167-\$ or US-5240264-\$ or US-D326815-\$ or US-5105947-\$ or US-D325324-\$ or US-5098235-\$).did. or (US-D319016-\$ or US-5035445-\$ or US-4971201-\$ or US-4168076-\$ or US-3974898-\$ or US-D232798-\$ or US-3506321-\$ or US-3225865-\$ or US-3117692-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-			
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	0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0299027-\$ or US- 0292213-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US- 0271280-\$ or US-0266804-\$ or US-0257958- \$).did. or (US-0254946-\$ or US-0243925-\$ or US-0239808-\$ or US-0236482-\$ or US- 0225371-\$ or US-0223971-\$ or US-0221177-\$ or US-0220758-\$ or US-0220531-\$ or US- 0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US- 0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0186513-\$ or US-0184034-\$ or US- 0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US- 0169739-\$ or US-0168880-\$ or US-0166516- \$).did. or (US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US- 0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US- 0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US- 0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US- 0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US- 0125072-\$ or US-0121783-\$ or US-0121547- \$).did. or (US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US- 0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0099405-\$ or US- 0094393-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US- 0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US- 0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0034515-\$ or US-0031732-\$ or US- 0031731-\$ or US-0031222-\$ or US-0027475- \$).did. or (US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US- 0002004-\$ or US-0000440-\$).did. or (US- D232798-\$ or US-3506321-\$ or US-3225865-\$ or US-3117692-\$ or US-2970358-\$ or US- 2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US- 0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0299027-\$ or US-0292213-\$ or US- 0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US- 0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0243925-\$ or US-0239808-\$ or US- 0236482-\$).did. or (US-0225371-\$ or US- 0223971-\$ or US-0221177-\$ or US-0220758-\$			
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		or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0186513-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$).did. or (US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0125072-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$).did. or (US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0099405-\$ or US-0094393-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0034515-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$).did. or (US-0002004-\$ or US-0000440-\$).did.				
S274	22	S269 not (S270 S271 S273)	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:27
S275	7	(US-0076261-\$ US-11008136-\$ US-20060076261-\$ US-6082687-\$ US-7172164-\$ US-7837165-\$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:32
S276	42	(US-0001482-\$ US-0025706-\$ US-0060953-\$ US-0094392-\$ US-0151427-\$ US-0155373-\$ US-0187725-\$ US-0213934-\$ US-0267368-\$ US-0310842-\$ US-10933501-\$ US-10962218-\$ US-10981696-\$ US-11059631-\$ US-20030094392-\$ US-20080060953-\$ US-20150151427-\$ US-20150310842-\$ US-20180213934-\$ US-20190001482-\$ US-20210025706-\$ US-20210155373-\$ US-20210187725-\$ US-	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/29 23:18

		20210267368-\$ US-3424334-\$ US-7152752-\$ US-8851282-\$ US-9551367-\$ US-9888752-\$ US-D917977-\$ US-D923935-\$).DID.				
S277	570	220/4.27.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S278	442	B65D21/0223.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S279	2,373	A45C5/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S280	111	A45C7/005.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S281	3,616	A45C13/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S282	476	A45F3/10.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S283	993	B25H1/04.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S284	1,281	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S285	223	B25H3/021.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S286	1,197	B62B1/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S287	826	B65D21/0209,0228.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59

S288	408	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S289	493	B25H3/023.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S290	1,065	B62B5/067.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S291	59	B65D2255/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S292	222	B65H2701/533.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S293	1,280	((("MILWAUKEE") near3 ("ELECTRIC") near3 ("TOOL") near3 ("CORPORATION"))).AS,AANM.	USPAT	OR	ON	2022/02/01 22:00
S294	100	((("Brunner") near3 ("Yaron"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:00
S295	90	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:00
S296	124	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:00
S297	214	((("Hyma") near3 ("Steven") near3 ("W"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:00
S298	42	("10088148" "10106180" "10144124" "10663124" "10663150" "20020179472" "20050232747" "20100085745" "20100220486" "20130048631" "20130051080" "20130058711" "20130134276" "20130155657" "20130186795" "20140332423" "20150078811" "20170151972" "20170257958" "20180231238"	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:10

		"20190113464" "4976450" "5685421" "5779350" "5879072" "6223899" "6267240" "6981780" "7252404" "7470036" "7484858" "8567796" "8936258" "9132543" "9221169" "9381639" "9381640" "9492919" "9566704" "9566990" "9643629").PN. OR ("10962218").URPN.				
S299	187	("10434638" "20020000440" "20020171228" "20030115715" "20030146589" "20030184034" "20030205877" "20040103494" "20040195793" "20040206656" "20050062244" "20050104308" "20050139745" "20060006770" "20060027475" "20060038367" "20060119060" "20060186624" "20060254946" "20070068757" "20070090616" "20070145700" "20070194543" "20080104921" "20080115312" "20080121547" "20080134607" "20080169739" "20080271280" "20080277221" "20080308369" "20090026901" "20090071990" "20090145790" "20090145866" "20090145913" "20090178946" "20100052276" "20100139566" "20100147642" "20100219193" "20110073516" "20110139665" "20110155613" "20110181008" "20110220531" "20120160886" "20120180250" "20120207571" "20120326406" "20130024468" "20130031731" "20130031732" "20130121783" "20130127129" "20130154218" "20130223971" "20140076759" "20140161518" "20140166516" "20150274362" "20150376917" "20160023349" "20160130034" "20160144500" "20160168880" "20170121056" "20170138382" "20170165828" "20170166352" "20170174392" "20170217464" "20170239808" "20170257958" "20170266804" "20170318927" "20170349013" "20180044059" "20180161975" "20180220758" "20180290288" "20190002004" "20190031222" "20190039781" "20190106244" "20190225371" "20200055534" "2042387" "2430200"	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:12

		"2970358" "3117692" "3506321" "3974898" "4168076" "5035445" "5105947").PN. OR ("5240264" "5301829" "5429260" "5595228" "5608603" "5628443" "5797617" "5951037" "5988473" "6050660" "6085925" "6109627" "6176559" "6347847" "6367631" "6371320" "6431580" "6547347" "6601930" "6619772" "6637707" "6641013" "6945546" "6948691" "6983946" "7044484" "7066475" "7147243" "7263742" "7367571" "7503569" "7658887" "7779764" "7780026" "7841144" "8028845" "8132819" "8177463" "8191910" "8454033" "8459495" "8505729" "8567796" "8677661" "8689396" "8714355" "8813960" "8875888" "8979100" "8985922" "9132543" "9506489" "9511491" "9566990" "9616562" "9643629" "9701443" "9872562" "D395533" "D437669" "D456972" "D525789" "D630851" "D653832" "D661858" "D663952" "D664354" "D674605" "D701696" "D738106" "D753394" "D753395" "D765974" "D770179" "D790221" "D814187" "D816334" "D826510" "D828671" "D833744" "D837515" "D871013").PN. OR ("D898320").URPN.				
S300	118	("2708088" "3878589" "3915189" "3931893" "4450989" "4461445" "4858869" "5026016" "5035389" "5078279" "5344032" "5356038" "5433416" "5435511" "5452874" "5765699" "5915572" "D329192" "D386298" "D386304").PN. OR ("6637707").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:15
S301	62	("4132380" "4307864" "4524938" "4974798").PN. OR ("5035389").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:17
S302	35	("0495537" "0541864" "4632348" "4679709" "4948085" "5035389" "5060898" "5226625").PN. OR ("5356105").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:18
S303	21	("1840138" "1894146" "2897928" "2939613" "3389883").PN. OR ("4132380").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:20

S304	13	("2897928").URPN.	USPAT	OR	ON	2022/02/01 22:21
S305	8	((("1069693") or ("1246749") or ("2369336") or ("2454681"))).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2022/02/01 22:22
S306	29	("4631783" "4634005" "5044591" "5082111" "5762211" "5816401" "5906350" "5967340" "5988381" "5996817").PN. OR ("6202865").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:49
S307	26	("20110011813" "20110187248" "20110192810" "2965235" "3154281" "3809799" "4391376" "4405108" "4441619" "4781608" "4852747" "5109992" "5165629" "6202865" "7198158" "7424958" "7523832" "7861871" "7882965" "7931159" "7950534" "9757853").PN. OR ("10875173").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:50
S308	2,440	B25H3/04,003.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:51
S309	5,532	F16M13/022.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:52
S311	1,552	211/70.6.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 13:02
S312	7,213	method adj3 painting	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 13:13
S313	18	("4637329" "6116173" "6192814").PN. OR ("6409030").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 13:28
S314	32	("2035639" "3210091" "3298532" "3342343" "3780874" "4475660" "4947998" "5704496").PN. OR ("5881891").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 13:38
S315	52	("0944312" "2371433" "2762595" "3269550" "3452954" "3581929" "4049126" "4199070").PN. OR ("4410095").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 16:58

S316	3	("2021/0039831").URPN.	USPAT	OR	ON	2022/02/02 16:59
S317	29	("4631783" "4634005" "5044591" "5082111" "5762211" "5816401" "5906350" "5967340" "5988381" "5996817").PN. OR ("6202865").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 17:07
S318	33	("0939125" "1517309" "1766230" "3779539" "4157819" "4170345" "4199135" "4278243" "4415149").PN. OR ("4555099").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/07 21:53
S319	0	("2021/0104914").URPN.	USPAT	OR	ON	2022/02/07 21:57
S320	8	("2020/0346819").URPN.	USPAT	OR	ON	2022/02/07 21:58
S343	31	(US-20100176261-\$ or US-20050015928-\$ or US-20170166352-\$ or US-20210094600-\$ or US-20210039831-\$ or US-20120292213-\$ or US-20170165828-\$).did. or (US-5664292-\$ or US-D898320-\$ or US-10222172-\$ or US- 7090085-\$ or US-7077372-\$ or US-6098858-\$ or US-5850996-\$ or US-5622296-\$ or US- 5356105-\$ or US-5356038-\$ or US-2124541-\$ or US-1081378-\$ or US-0495537-\$ or US- D923935-\$ or US-D936030-\$ or US-D920671- \$ or US-D917977-\$ or US-6637707-\$ or US- 5035389-\$ or US-4132380-\$ or US-D932186- \$).did. or (US-3423786-\$ or US-2939613-\$ or US-2897928-\$).did.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:00
S344	50	("5628443" "2939613" "4929973" "6098858" "10222172" "5890613" "5957421" "0495537" "20050015928" "3935613" "5850996" "7077372" "10758065" "5433416" "3423786" "4817237" "6371424" "5282554" "5653366" "20190225371" "20100176261" "5664292" "7090085" "20080296443" "20190168376" "3514170" "3743372" "5356038" "D898320" "20050242144" "4805859" "20170138382" "20180290288" "6637707" "D753982" "1081378" "20180127007" "2124541" "5356105" "20090127146" "20120074158" "5775046" "8448829" "D898320" "5622296").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:01
S345	42	(US-20210267368-\$ or US-20210187725-\$ or US-20210155373-\$ or US-20210025706-\$ or US-20190001482-\$ or US-20180213934-\$ or US-20150310842-\$ or US-20150151427-\$ or US-20080060953-\$ or US-20030094392- \$).did. or (US-11059631-\$ or US-D923935-\$ or US-D917977-\$ or US-10981696-\$ or US-	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:01

		10962218-\$ or US-10933501-\$ or US-9888752-\$ or US-9551367-\$ or US-8851282-\$ or US-7152752-\$ or US-3424334-\$ or US-0310842-\$ or US-0267368-\$ or US-0213934-\$ or US-0187725-\$ or US-0155373-\$ or US-0151427-\$ or US-0094392-\$ or US-0060953-\$ or US-0025706-\$ or US-0001482-\$).did. or (US-3424334-\$ or US-0310842-\$ or US-0267368-\$ or US-0213934-\$ or US-0187725-\$ or US-0155373-\$ or US-0151427-\$ or US-0094392-\$ or US-0060953-\$ or US-0025706-\$ or US-0001482-\$).did.				
S346	430	(US-20200299027-\$ or US-20200243925-\$ or US-20200165036-\$ or US-20200147781-\$ or US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20180186513-\$ or US-20180161975-\$ or US-20180153312-\$ or US-20180099405-\$ or US-20180044059-\$ or US-20170349013-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$).did. or (US-20170138382-\$ or US-20170121056-\$ or US-20160221177-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20150034515-\$ or US-20140166516-\$ or US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120292213-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$).did. or (US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$ or US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:02

	US-20070068757-\$).did. or (US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$ or US-20030205877-\$ or US-20030184034-\$ or US-20030146589-\$ or US-20030115715-\$ or US-20030094393-\$ or US-20020171228-\$ or US-20020125072-\$ or US-20020000440-\$).did. or (US-D895375-\$ or US-D892565-\$ or US-D891875-\$ or US-D891195-\$ or US-D891193-\$ or US-D888503-\$ or US-D888422-\$ or US-D887788-\$ or US-D883752-\$ or US-D880951-\$ or US-D880252-\$ or US-10583962-\$ or US-D873085-\$ or US-D871013-\$ or US-10434638-\$ or US-D857387-\$ or US-D845081-\$ or US-D845080-\$ or US-D839681-\$ or US-D836995-\$ or US-D831352-\$ or US-10106180-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-D806483-\$).did. or (US-D803631-\$ or US-9750543-\$ or US-9725209-\$ or US-9701443-\$ or US-9643629-\$ or US-D784089-\$ or US-9616562-\$ or US-9566990-\$ or US-D777426-\$ or US-9511491-\$ or US-9506489-\$ or US-D753396-\$ or US-9132543-\$ or US-D738105-\$ or US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$).did. or (US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-D649350-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-D536580-\$ or US-7147243-\$ or US-D527225-\$ or US-7066475-\$ or US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$).did. or (US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6305498-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-D420860-\$ or US-5988473-\$ or US-D415393-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-D361511-\$ or US-5429260-\$ or US-D352208-\$ or US-5301829-\$ or US-D340167-				
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	\$ or US-5240264-\$ or US-D326815-\$ or US-5105947-\$ or US-D325324-\$ or US-5098235-\$).did. or (US-D319016-\$ or US-5035445-\$ or US-4971201-\$ or US-4168076-\$ or US-3974898-\$ or US-D232798-\$ or US-3506321-\$ or US-3225865-\$ or US-3117692-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0299027-\$ or US-0292213-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$).did. or (US-0254946-\$ or US-0243925-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0221177-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0186513-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$).did. or (US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0125072-\$ or US-0121783-\$ or US-0121547-\$).did. or (US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0099405-\$ or US-0094393-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0034515-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$).did. or (US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-D232798-\$ or US-3506321-\$ or US-3225865-\$ or US-3117692-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-				
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		0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0299027-\$ or US-0292213-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0243925-\$ or US-0239808-\$ or US-0236482-\$).did. or (US-0225371-\$ or US-0223971-\$ or US-0221177-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0186513-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$).did. or (US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0125072-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$).did. or (US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0099405-\$ or US-0094393-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0034515-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$).did. or (US-0002004-\$ or US-0000440-\$).did.				
S347	430	(US-20200299027-\$ or US-20200243925-\$ or US-20180186513-\$ or US-20180099405-\$ or US-20160221177-\$ or US-20150034515-\$ or US-20120292213-\$ or US-20030094393-\$ or US-20020125072-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:02

	US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20140166516- \$).did. or (US-20140161518-\$ or US- 20140076759-\$ or US-20130223971-\$ or US- 20130154218-\$ or US-20130127129-\$ or US- 20130121783-\$ or US-20130068903-\$ or US- 20130031732-\$ or US-20130031731-\$ or US- 20130024468-\$ or US-20120326406-\$ or US- 20120207571-\$ or US-20120180250-\$ or US- 20120160886-\$ or US-20110220531-\$ or US- 20110181008-\$ or US-20110155613-\$ or US- 20110139665-\$ or US-20110073516-\$ or US- 20100219193-\$ or US-20100147642-\$ or US- 20100139566-\$ or US-20100052276-\$ or US- 20090236482-\$ or US-20090178946-\$ or US- 20090145913-\$ or US-20090145866-\$).did. or (US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$ or US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$).did. or (US- 20030205877-\$ or US-20030184034-\$ or US- 20030146589-\$ or US-20030115715-\$ or US- 20020171228-\$ or US-20020000440-\$ or US- 20200165036-\$ or US-20200147781-\$ or US- 20200055534-\$ or US-20190225371-\$ or US- 20190106244-\$ or US-20190039781-\$ or US- 20190031222-\$ or US-20190002004-\$ or US- 20180290288-\$ or US-20180220758-\$ or US- 20180161975-\$ or US-20180153312-\$ or US- 20180044059-\$ or US-20170349013-\$).did. or (US-D895375-\$ or US-D892565-\$ or US- D891875-\$ or US-D891195-\$ or US-D891193- \$ or US-D888503-\$ or US-D888422-\$ or US- D887788-\$ or US-D883752-\$ or US-D880951- \$ or US-D880252-\$ or US-10583962-\$ or US- D873085-\$ or US-D857387-\$ or US-D845081- \$ or US-D845080-\$ or US-D839681-\$ or US- D836995-\$ or US-D831352-\$ or US- 10106180-\$ or US-D806483-\$ or US- D803631-\$ or US-9725209-\$ or US-D784089- \$ or US-D777426-\$ or US-9506489-\$).did. or (US-D753396-\$ or US-D738105-\$ or US- D649350-\$ or US-D536580-\$ or US-D527225-				
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	\$ or US-6305498-\$ or US-D420860-\$ or US-D415393-\$ or US-D361511-\$ or US-D352208-\$ or US-D340167-\$ or US-D326815-\$ or US-D325324-\$ or US-5098235-\$ or US-D319016-\$ or US-4971201-\$ or US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$).did. or (US-10434638-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$).did. or (US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$).did. or (US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$).did. or (US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$ or US-D871013-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-9750543-\$ or US-9701443-\$ or US-9643629-\$ or US-9616562-\$ or US-9566990-\$ or US-9511491-\$ or US-9132543-\$).did. or			
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	(US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$ or US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-7147243-\$ or US-7066475-\$).did. or (US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$ or US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-5988473-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-5429260-\$ or US-5301829-\$ or US-5240264-\$).did. or (US-5105947-\$ or US-5035445-\$ or US-4168076-\$ or US-3974898-\$ or US-3506321-\$ or US-3117692-\$).did. or (US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$).did. or (US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$).did. or (US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$			
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		or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$).did. or (US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-3506321-\$ or US-3117692-\$).did.				
S348	8	S343 not (S344 S345 S346 S347)	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:05
S349	525	S343 S344 S345 S346 S347	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:27
S350	24	(US-0006542-\$ US-0149754-\$ US-0165482-\$ US-0280523-\$ US-2386343-\$ US-20040149754-\$ US-20060165482-\$ US-20070006542-\$ US-20080280523-\$ US-3552817-\$ US-3851936-\$ US-4564732-\$ US-4660725-\$ US-5154291-\$ US-5454634-\$ US-6371321-\$ US-7350648-\$ US-8894160-\$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:41

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S321	1,162	B65D21/0223,0209,0228.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:26
S322	2,308	A45C5/14.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:26
S323	107	A45C7/005.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:26

S324	3,269	A45C13/02.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:26
S325	445	A45F3/10.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:26
S326	907	B25H1/04.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:26
S328	923	B62B1/14.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S329	793	B65D21/0209,0228.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S330	397	A45C7/0045.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S331	1,647	B25H3/02,021,023.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S332	1,029	B62B5/067.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S333	59	B65D2255/00.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S334	212	B65H2701/533.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S335	2,217	B25H3/04,003.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:28
S336	1,303	211/70.6.ccls.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:28
S337	253	16/30.ccls.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:28
S338	675	248/177.1,187.1.ccls.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:28
S339	459	220/4.27.ccls.	US-PGPUB; USPAT	OR	OFF	2022/02/08 21:29

S340	25	("2680000" "3608127" "3685852" "3935613" "3987875" "4422212" "4589530" "4817237").PN. OR ("5428866").URPN.	US-PGPUB; USPAT	OR	ON	2022/02/08 22:09
S341	102	("2907137" "5301822" "5409560" "5512165" "8336709" "9205553" "8118162" "6811127" "20060065557" "20060070900" "4286952" "6516948" "20060234846" "8505720" "20150202767" "2371433" "4621738" "5669516" "4406368" "6595735" "20150328768" "20040140356" "6932223" "7322470" "10279467" "10335664" "20150251310" "20150252827" "5080230" "5544396" "6719155" "20040238466" "5551320" "5695165" "8181780" "9962827" "20050221664" "6237767" "10213913" "20180361564" "6827275" "10842264" "20160214254" "20180353830" "7424958" "5660276" "5743394" "6098799" "7246704" "7286059" "20060091986" "20090166305" "20090255891" "5217115" "6073766" "20040140362" "20160016306" "20180361563" "20180137789" "10052754" "10625411" "20150122750" "20180326573" "2066851" "5320223" "7735645" "20180104812" "5398823" "5520285" "5551795" "5979675" "7905354" "20090101532" "20140083886" "6415922" "5760668" "20150273683" "8739453" "2619829" "6390298" "20060082466" "6637082" "5313181" "5407063" "5542320" "5855285" "7510092" "20180232577" "10625411" "20040256335" "20200122315" "6109569" "6405864" "10675750" "20170190046" "4928821" "7185770" "20070144986" "6868967" "5378184" "20050258059" "20170341218" "6047824").PN.	US-PGPUB; USPAT	OR	ON	2022/02/08 22:14
S342	9	("7696721" "20090072029" "20080303904" "D592423" "20110233096" "20070274042" "20110006729" "5909357" "9829953").PN.	US-PGPUB; USPAT	OR	ON	2022/02/08 22:17
S351	29	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	ON	2022/02/08 23:00

6/7/2022 6:30:29 PM

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Bibliographic Data

Application No: 17/064,371

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged:

/GIDEON R WEINERTH/

Examiner's Signature

G.R.W

Initials

Title:

Utility Assembly and Coupling Mechanism

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/06/2020	220	3736	066749-2792
RULE			

APPLICANTS

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Christopher S. Hoppe, Cedarburg, WI, UNITED STATES

Steven W. Hyma, Milwaukee, WI, UNITED STATES

CONTINUING DATA

This application is a CON of 16752441 01/24/2020 PAT 11008136

16752441 is a CON of 16216724 12/11/2018 PAT 10583962

16216724 is a CON of 15826232 11/29/2017 PAT 10703534

15826232 is a CON of PCT/IL2017/050481 04/30/2017

PCT/IL2017/050481 has PRO of 62459076 02/15/2017

PCT/IL2017/050481 has PRO of 62330334 05/02/2016

FOREIGN APPLICATIONS

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ADDRESS

Reinhart (Milwaukee Tool)

ATTN: TRAVIS MCDONNELL, PARALEGAL

1000 NORTH WATER STREET

SUITE 2100

MILWAUKEE, WI 53202
UNITED STATES

FILING FEE RECEIVED

\$6,640

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. PTO/SB/09 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	17/064,371
				Filing Date	October 6, 2020
Date Submitted: May 19, 2022				First Named Inventor	Yaron Brunner
				Art Unit	3736
(use as many sheets as necessary)				Examiner Name	WEINERTH, GIDEON R
				Attorney Docket Number	066749-2792
Sheet	1	of	2		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/G.R.W/	A1	11,066,089	07-20-2021	Brunner	
	A2	11,155,382	10-26-2021	Cai	
	A3	11,230,410	01-25-2022	Brunner	
	A4	11,283,117	03-22-2022	Polakowski et al.	
	A5	2002/0030425	03-14-2002	Tiramani et al.	
	A6	2003/0075468	04-24-2003	Story et al.	
	A7	2007/0273114	11-29-2007	Katz	
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	A9	2012/0073995	03-2012	Parker	
	A10	2014/0062042	03-06-2014	Wagner et al.	
	A11	2014/0197059	07-17-2014	Evans et al.	
	A12	2016/0213115	07-28-2016	Gonitiner et al.	
	A13	2017/0158216	06-08-2017	Yahav et al.	
	A14	2020/0078929	03-12-2020	Liu	
	A15	2021/0104909	04-08-2021	Mantych	
	A16	2021/0221561	07-22-2021	Davidian et al.	
	A17	2021/0316909	10-14-2021	Vargo et al.	
	A18	D437,484	02-13-2001	Tiramani et al.	
	A19	D649,783	12-06-2011	Brunner	
	A20	D876,833	03-03-2020	Brunner et al.	
	A21	D897,103	09-29-2020	Brunner et al.	
	A22	D918,584	05-11-2021	Brunner et al.	
	A23	D919,296	05-18-2021	Brunner et al.	
	A24	D941,020	01-18-2022	Brunner et al.	
/G.R.W/	A25	RE47,022	09-04-2018	Sosnovsky et al.	

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

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	06/07/2022
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.R.W/

PTO/SB/08 (09-06)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: May 19, 2022 (use as many sheets as necessary)				Complete if Known	
Application Number		17/064,371			
Filing Date		October 6, 2020			
First Named Inventor		Yaron Brunner			
Art Unit		3736			
Examiner Name		WEINERTH, GIDEON R			
Attorney Docket Number		066749-2792			
Sheet	2	of	2		

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document	Filing Date of Cited Document	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant

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

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (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 ⁶

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	06/07/2022
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

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

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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)							
Application Number	17064371	Filing Date	2020-10-06	Docket Number (if applicable)	066749-2792	Art Unit	3736
First Named Inventor	Yaron Brunner			Examiner Name	WEINERTH, GIDEON R		
This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV							
SUBMISSION REQUIRED UNDER 37 CFR 1.114							
Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).							
☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____ ☐ Other _____							
☒ Enclosed ☐ Amendment/Reply ☒ Information Disclosure Statement (IDS) ☐ Affidavit(s)/ Declaration(s) ☐ Other _____							
MISCELLANEOUS							
☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)							
☐ Other _____							
FEES							
☒ The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No <u>180882</u>							
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED							
☒ Patent Practitioner Signature ☐ Applicant Signature							

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

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Signature of Registered U.S. Patent Practitioner			
Signature	/Derek H. Campbell/	Date (YYYY-MM-DD)	2022-05-19
Name	Derek H. Campbell	Registration Number	70608

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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.
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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		17064371		
Filing Date:		06-Oct-2020		
Title of Invention:		Utility Assembly and Coupling Mechanism		
First Named Inventor/Applicant Name:		Yaron Brunner		
Filer:		Derek Howard Campbell/Sarah Sesterhenn-Lee		
Attorney Docket Number:		066749-2792		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	2000	2000
Total in USD (\$)				2000

Electronic Acknowledgement Receipt	
EFS ID:	45753114
Application Number:	17064371
International Application Number:	
Confirmation Number:	4794
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2792
Receipt Date:	19-MAY-2022
Filing Date:	06-OCT-2020
Time Stamp:	16:22:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 2000
RAM confirmation Number	E20225IG23192760
Deposit Account	180882
Authorized User	Sarah Sesterhenn-Lee
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	Transmittal Letter	066749-2792-IDS_Transmittal.pdf	86910	no	2
			a13fcc325ce77e293cb169a267e987f5f10a dc45		
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	066749-2792-SB08.pdf	123409	no	2
			123b6d401799e927c8f3e237121e3037ce3 0858c		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Request for Continued Examination (RCE)	066749-2792-RCE.pdf	81819	no	3
			2e83ab4f19f7708d8e6b0e86cf3d67cb06af 5ed2		
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	38131	no	2
			7a364e04134c983c659841e916d27596b4d 0f194		
Warnings:					
Information:					
Total Files Size (in bytes):			330269		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation et al.
Title: Utility Assembly and Coupling Mechanism
Appl. No.: 17/064,371
Filing Date: October 6, 2020
Examiner: WEINERTH, GIDEON R
Art Unit: 3736
Confirmation Number: 4794

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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

Submitted herewith on Form PTO/SB/08 is a listing of the documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR § 1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b)(4), before the mailing of a first Office action after the filing of a Request for Continued Examination under §1.114.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 18-0882.

Respectfully submitted,

Date May 19, 2022

By /Derek H. Campbell/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8374
Facsimile: (414) 298-8097

Derek H. Campbell
Attorney for Applicant
Registration No. 70,608

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: May 19, 2022 <i>(use as many sheets as necessary)</i>				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	1	of	2	Attorney Docket Number	066749-2792

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	11,066,089	07-20-2021	Brunner	
	A2	11,155,382	10-26-2021	Cai	
	A3	11,230,410	01-25-2022	Brunner	
	A4	11,283,117	03-22-2022	Polakowski et al.	
	A5	2002/0030425	03-14-2002	Tiramani et al.	
	A6	2003/0075468	04-24-2003	Story et al.	
	A7	2007/0273114	11-29-2007	Katz	
	A8	2009/0288970	11-26-2009	Katz et al.	
	A9	2012/0073995	03-2012	Parker	
	A10	2014/0062042	03-06-2014	Wagner et al.	
	A11	2014/0197059	07-17-2014	Evans et al.	
	A12	2016/0213115	07-28-2016	Gonitiner et al.	
	A13	2017/0158216	06-08-2017	Yahav et al.	
	A14	2020/0078929	03-12-2020	Liu	
	A15	2021/0104909	04-08-2021	Mantych	
	A16	2021/0221561	07-22-2021	Davidian et al.	
	A17	2021/0316909	10-14-2021	Vargo et al.	
	A18	D437,484	02-13-2001	Tiramani et al.	
	A19	D649,783	12-06-2011	Brunner	
	A20	D876,833	03-03-2020	Brunner et al.	
	A21	D897,103	09-29-2020	Brunner et al.	
	A22	D918,584	05-11-2021	Brunner et al.	
	A23	D919,296	05-18-2021	Brunner et al.	
	A24	D941,020	01-18-2022	Brunner et al.	
	A25	RE47,022	09-04-2018	Sosnovsky et al.	

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

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: May 19, 2022 <i>(use as many sheets as necessary)</i>				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	2	of	2	Attorney Docket Number	066749-2792

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document	Filing Date of Cited Document	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant

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

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (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 ⁶

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

142078 7590 02/25/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

EXAMINER

WEINERTH, GIDEON R

ART UNIT

PAPER NUMBER

3736

DATE MAILED: 02/25/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794

TITLE OF INVENTION: Utility Assembly and Coupling Mechanism

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	05/25/2022

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

142078 7590 02/25/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794

TITLE OF INVENTION: Utility Assembly and Coupling Mechanism

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	05/25/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	220-004270

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.
17/064,371	10/06/2020	Yaron Brunner	066749-2792	4794
142078	7590	02/25/2022	EXAMINER	
Reinhart (Milwaukee Tool)			WEINERTH, GIDEON R	
ATTN: TRAVIS MCDONNELL, PARALEGAL			ART UNIT	
1000 NORTH WATER STREET			PAPER NUMBER	
SUITE 2100			3736	
MILWAUKEE, WI 53202			DATE MAILED: 02/25/2022	

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 17/064,371	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	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 12/22/2021.

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

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

3. ☒ The allowed claim(s) is/are 9,13-14,21,23 and 25-26. 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>12/22/2021, 2/18/2021, 2/7/2022</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 _____.
--	--

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: The Amended Claims of 12/22/2021 recites a novel arrangement of a panel with mounting apertures and previously examined male/female couplers and a single latch recess in the front of the panel as shown in Figure 18A.

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

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is (571)270-5121. The examiner can normally be reached Monday-Friday 10AM-6PM EST.

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, Greg Pickett can be reached on (571) 272-4560. 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,

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Art Unit: 3736

Page 3

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.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Notice of References Cited	Application/Control No. 17/064,371		Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH		Art Unit 3736	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-5035389-A	07-1991	Wang; Shu-San	F16M11/041	248/225.11
*	B	US-20210039831-A1	02-2021	BRUNNER; Yaron	B65D25/20	1/1
*	C	US-20210094600-A1	04-2021	BRUNNER; Yaron	B62B5/0433	1/1
*	D	US-D920671-S	06-2021	Brunner; Yaron		D3/294
*	E	US-D932186-S	10-2021	Brunner; Yaron		D3/294
*	F	US-D936030-S	11-2021	Lee; Timothy Tin Pak	F16M11/041	D14/188
	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.

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20220208

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

CPC						
Symbol					Type	Version
B65D	/	21	/	0223	F	2013-01-01
B25H	/	3	/	02	I	2013-01-01
A45C	/	5	/	14	I	2013-01-01
A45C	/	7	/	005	I	2013-01-01
A45F	/	3	/	10	I	2013-01-01
B25H	/	1	/	04	I	2013-01-01
A45C	/	13	/	02	I	2013-01-01
B25H	/	3	/	021	I	2013-01-01
B65D	/	21	/	0209	I	2013-01-01
B62B	/	1	/	14	I	2013-01-01
B65D	/	21	/	0228	I	2013-01-01
B65H	/	2701	/	533	A	2013-01-01
A45C	/	7	/	0045	A	2013-01-01
B25H	/	3	/	023	A	2013-01-01
B62B	/	5	/	067	A	2013-01-01
B65D	/	2255	/	00	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	08 February 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	9	18A

U.S. Patent and Trademark Office

Part of Paper No.: 20220208

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

INTERNATIONAL CLASSIFICATION			
CLAIMED			
B65D		21	02
B25H		3	02
B25H		3	00
NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
220	4.27

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
211	70.6					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	08 February 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	9	18A

U.S. Patent and Trademark Office

Part of Paper No.: 20220208

Issue Classification 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

☐ 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	Final
	1		10		19											
	2		11		20											
	3		12	4	21											
	4	2	13		22											
	5	3	14	5	23											
	6		15		24											
	7		16	6	25											
	8		17	7	26											
1	9		18													

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 7	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 9	O.G. Print Figure 18A

<i>Index of Claims</i> 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	11/26/2020	09/26/2021	02/08/2022						
	1	N	N	N						
	2	N	N	N						
	3	N	N	N						
	4	N	N	N						
	5	N	N	N						
	6	N	N	N						
	7	N	N	N						
	8	N	N	N						
	9	✓	✓	=						
	10	✓	-	-						
	11	✓	-	-						
	12	✓	-	-						
	13	✓	✓	=						
	14	✓	✓	=						
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	16	N	-	-						
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	22		-	-						
	23		✓	=						
	24		✓	-						
	25		✓	=						
	26			=						

<i>Search Notes</i> 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

CPC - Searched*		
Symbol	Date	Examiner
A45C5/14	11/25/2020	GW
A45C7/005,0045	11/25/2020	GW
A45C13/02	11/25/2020	GW
A45F3/10	11/25/2020	GW
B25H1/\$,04,14,	11/25/2020	GW
B25H3/\$,02,021,023,	11/25/2020	GW
B25H5/\$	11/25/2020	GW
B65H2701/533	11/25/2020	GW
B65D21/0223,0209,0228	11/25/2020	GW
B65D2255/00	11/25/2020	GW
Update search	03/05/2021	GW
A45C5/143	09/24/2021	GW
B60B33/0002	09/24/2021	GW
B62B5/0083	09/24/2021	GW
B62B2202/24,10	09/24/2021	GW
F16M13/02	09/24/2021	GW
F16M2200/028	09/24/2021	GW
G06F1/18	09/24/2021	GW
Y10S248/917	09/24/2021	GW
Y10T16/191,5357	09/24/2021	GW
A45C5/14	02/01/2022	GW
A45C7/005,0045	02/01/2022	GW
A45C13/02	02/01/2022	GW
A45F3/10	02/01/2022	GW
B65D21/0223	02/01/2022	GW
B25H1/04	02/01/2022	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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Search Notes 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

B25H3/02,021,023,04,003	02/01/2022	GW
B62B1/14	02/01/2022	GW
B62B5/067	02/01/2022	GW
B65D21/0209,0228	02/01/2022	GW
B65D2255/00	02/01/2022	GW
B65H2701/533	02/01/2022	GW
F16M13/022	02/01/2022	GW

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
224	583,645,629,665	11/25/2020	GW
150	113	11/25/2020	GW
190	110	11/25/2020	GW
220	4.27	11/25/2020	GW
190	18A	09/26/2021	GW
16	30,29,257	09/26/2021	GW
248	222.11,223.41,222.13,187.1,223.41,177.1,187.1	09/26/2021	GW
396	419	09/26/2021	GW
	Update search	09/26/2021	GW
220	4.27	02/02/2022	GW
211	70.6	02/02/2022	GW

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

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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<i>Search Notes</i> 	Application/Control No. 17/064,371	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

Search Notes		
Search Notes	Date	Examiner
Search Inventors, cross reference with other co-pending applications	02/08/2022	GW

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
220	4.27	02/08/2022	GW
211	70.6	02/08/2022	GW
16	30	02/08/2022	GW
248	177.1,187.1	02/08/2022	GW
A45C5	14	02/08/2022	GW
A45C7	005,0045	02/08/2022	GW
A45C13	02	02/08/2022	GW
A45F3	10	02/08/2022	GW
B65D21	0223,0209,0228	02/08/2022	GW
B25H1	04	02/08/2022	GW
B62B1	14	02/08/2022	GW
B25H3	02,021,023,04,003	02/08/2022	GW
B62B5	067	02/08/2022	GW
B65D2255	00	02/08/2022	GW
B65H2701	533	02/08/2022	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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Bibliographic Data

Application No: 17/064,371

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged:

/GIDEON R WEINERTH/

Examiner's Signature

G.R.W

Initials

Title:

Utility Assembly and Coupling Mechanism

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
10/06/2020	220	3736	066749-2792
RULE			

APPLICANTS

Milwaukee Electric Tool Corporation, Brookfield, WI,

INVENTORS

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Grant T. Squiers, Cudahy, WI, UNITED STATES

Christopher S. Hoppe, Cedarburg, WI, UNITED STATES

Steven W. Hyma, Milwaukee, WI, UNITED STATES

CONTINUING DATA

This application is a CON of 16752441 01/24/2020 PAT 11008136

16752441 is a CON of 16216724 12/11/2018 PAT 10583962

16216724 is a CON of 15826232 11/29/2017 PAT 10703534

15826232 is a CON of PCT/IL2017/050481 04/30/2017

PCT/IL2017/050481 has PRO of 62459076 02/15/2017

PCT/IL2017/050481 has PRO of 62330334 05/02/2016

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

10/15/2020

STATE OR COUNTRY

ISRAEL

ADDRESS

Reinhart (Milwaukee Tool)

ATTN: TRAVIS MCDONNELL, PARALEGAL

1000 NORTH WATER STREET

SUITE 2100

MILWAUKEE, WI 53202
UNITED STATES

FILING FEE RECEIVED

\$6,640

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: February 18, 2021 <i>(use as many sheets as necessary)</i>				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	1	of	1	Attorney Docket Number	066749-2792

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.R.W./	A1	2012/0074022	03-29-2012	McTavish et al.	
/G.R.W./	A2	9,850,029	12-26-2017	Brunner	

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

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

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (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 ⁶

Examiner Signature/	GIDEON R WEINERTH/	Date Considered	02/08/2022
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.R.W./

PTO/SB/08 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

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

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 22, 2021 (use as many sheets as necessary)				Complete if Known	
				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R.
Sheet	1	of	2	Attorney Docket Number	066749-2792

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	3,424,334	01-28-1969	Goltz	
	A2	7,152,752	12-26-2006	Kurtenbach	
	A3	8,851,282	10-07-2014	Brunner	
	A4	9,551,367	01-24-2017	Shieh	
	A5	9,888,752	02-13-2018	Den Boer et al.	
	A6	10,962,218	03-30-2021	Plato et al.	
	A7	10,933,501	03-02-2021	Bisson	
	A8	10,981,696	04-20-2021	Brunner et al.	
	A9	11,059,631	07-13-2021	Brunner et al.	
	A10	2003/0094392	05-22-2003	Meier et al.	
	A11	2008/0060953	03-13-2008	Ghassan	
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	A17	2021/0155373	05-27-2021	Cai	
	A18	2021/0187725	06-24-2021	Brunner	
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UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant	T 6

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	01/29/2022
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PTO/SB/08 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

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

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 22, 2021 (use as many sheets as necessary)				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R.
Sheet	2	of	2	Attorney Docket Number	066749-2792

		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			Passages or Relevant Figures Appear	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (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 ⁶

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	01/29/2022
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PTO/SB/08 (09-06)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: February 7, 2022 (use as many sheets as necessary)				Complete if Known	
Application Number		17/064,371			
Filing Date		October 6, 2020			
First Named Inventor		Yaron Brunner			
Art Unit		3736			
Examiner Name		WEINERTH, GIDEON R.			
Attorney Docket Number		066749-2792			
Sheet	1	of	2		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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	A3	3,567,298	03-02-1971	Ambaum et al.	
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	A15	2008/0280523	11-13-2008	Bishop	

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

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

NON PATENT LITERATURE DOCUMENTS

Examiner Signature /GIDEON R WEINERTH/	Date Considered	02/08/2022
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: February 7, 2022 <i>(use as many sheets as necessary)</i>				Application Number	17/064,371
				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R.
Sheet	2	of	2	Attorney Docket Number	066749-2792

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (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 ⁶

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/08/2022
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EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	31	(US-20100176261-\$ or US-20050015928-\$ or US-20170166352-\$ or US-20210094600-\$ or US-20210039831-\$ or US-20120292213-\$ or US-20170165828-\$).did. or (US-5664292-\$ or US-D898320-\$ or US-10222172-\$ or US-7090085-\$ or US-7077372-\$ or US-6098858-\$ or US-5850996-\$ or US-5622296-\$ or US-5356105-\$ or US-5356038-\$ or US-2124541-\$ or US-1081378-\$ or US-0495537-\$ or US-D923935-\$ or US-D936030-\$ or US-D920671-\$ or US-D917977-\$ or US-6637707-\$ or US-5035389-\$ or US-4132380-\$ or US-D932186-\$).did. or (US-3423786-\$ or US-2939613-\$ or US-2897928-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:00
L3	50	("5628443" "2939613" "4929973" "6098858" "10222172" "5890613" "5957421" "0495537" "20050015928" "3935613" "5850996" "7077372" "10758065" "5433416" "3423786" "4817237" "6371424" "5282554" "5653366" "20190225371" "20100176261" "5664292" "7090085" "20080296443" "20190168376" "3514170" "3743372" "5356038" "D898320" "20050242144" "4805859" "20170138382" "20180290288" "6637707" "D753982" "1081378" "20180127007" "2124541" "5356105" "20090127146" "20120074158" "5775046" "8448829" "D898320" "5622296").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:01
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		or US-0155373-\$ or US-0151427-\$ or US-0094392-\$ or US-0060953-\$ or US-0025706-\$ or US-0001482-\$).did.				
L23	430	(US-20200299027-\$ or US-20200243925-\$ or US-20200165036-\$ or US-20200147781-\$ or US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20180186513-\$ or US-20180161975-\$ or US-20180153312-\$ or US-20180099405-\$ or US-20180044059-\$ or US-20170349013-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$).did. or (US-20170138382-\$ or US-20170121056-\$ or US-20160221177-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20150034515-\$ or US-20140166516-\$ or US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120292213-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$).did. or (US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$ or US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$).did. or (US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$ or US-20030205877-\$ or US-20030184034-\$ or US-20030146589-\$ or US-20030115715-\$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:02

	20030094393-\$ or US-20020171228-\$ or US-20020125072-\$ or US-20020000440-\$).did. or (US-D895375-\$ or US-D892565-\$ or US-D891875-\$ or US-D891195-\$ or US-D891193-\$ or US-D888503-\$ or US-D888422-\$ or US-D887788-\$ or US-D883752-\$ or US-D880951-\$ or US-D880252-\$ or US-10583962-\$ or US-D873085-\$ or US-D871013-\$ or US-10434638-\$ or US-D857387-\$ or US-D845081-\$ or US-D845080-\$ or US-D839681-\$ or US-D836995-\$ or US-D831352-\$ or US-10106180-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-D806483-\$).did. or (US-D803631-\$ or US-9750543-\$ or US-9725209-\$ or US-9701443-\$ or US-9643629-\$ or US-D784089-\$ or US-9616562-\$ or US-9566990-\$ or US-D777426-\$ or US-9511491-\$ or US-9506489-\$ or US-D753396-\$ or US-9132543-\$ or US-D738105-\$ or US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$).did. or (US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-D649350-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-D536580-\$ or US-7147243-\$ or US-D527225-\$ or US-7066475-\$ or US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$).did. or (US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6305498-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-D420860-\$ or US-5988473-\$ or US-D415393-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-D361511-\$ or US-5429260-\$ or US-D352208-\$ or US-5301829-\$ or US-D340167-\$ or US-5240264-\$ or US-D326815-\$ or US-5105947-\$ or US-D325324-\$ or US-5098235-\$).did. or (US-D319016-\$ or US-5035445-\$ or US-4971201-\$ or US-4168076-\$ or US-3974898-\$ or US-D232798-\$ or US-3506321-\$ or US-3225865-\$ or US-3117692-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$				
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	or US-0308369-\$ or US-0299027-\$ or US-0292213-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$).did. or (US-0254946-\$ or US-0243925-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0221177-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0186513-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$).did. or (US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0125072-\$ or US-0121783-\$ or US-0121547-\$).did. or (US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0099405-\$ or US-0094393-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0034515-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$).did. or (US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-D232798-\$ or US-3506321-\$ or US-3225865-\$ or US-3117692-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0299027-\$ or US-0292213-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0243925-\$ or US-0239808-\$ or US-0236482-\$).did. or (US-0225371-\$ or US-0223971-\$ or US-0221177-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-				
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		0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0186513-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$).did. or (US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0125072-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$).did. or (US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0099405-\$ or US-0094393-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0034515-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$).did. or (US-0002004-\$ or US-0000440-\$).did.				
L42	430	(US-20200299027-\$ or US-20200243925-\$ or US-20180186513-\$ or US-20180099405-\$ or US-20160221177-\$ or US-20150034515-\$ or US-20120292213-\$ or US-20030094393-\$ or US-20020125072-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20140166516-\$).did. or (US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120207571-\$ or US-20120180250-\$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:02

	20120160886-\$ or US-20110220531-\$ or US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$).did. or (US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$ or US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$).did. or (US-20030205877-\$ or US-20030184034-\$ or US-20030146589-\$ or US-20030115715-\$ or US-20020171228-\$ or US-20020000440-\$ or US-20200165036-\$ or US-20200147781-\$ or US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20180161975-\$ or US-20180153312-\$ or US-20180044059-\$ or US-20170349013-\$).did. or (US-D895375-\$ or US-D892565-\$ or US-D891875-\$ or US-D891195-\$ or US-D891193-\$ or US-D888503-\$ or US-D888422-\$ or US-D887788-\$ or US-D883752-\$ or US-D880951-\$ or US-D880252-\$ or US-10583962-\$ or US-D873085-\$ or US-D857387-\$ or US-D845081-\$ or US-D845080-\$ or US-D839681-\$ or US-D836995-\$ or US-D831352-\$ or US-10106180-\$ or US-D806483-\$ or US-D803631-\$ or US-9725209-\$ or US-D784089-\$ or US-D777426-\$ or US-9506489-\$).did. or (US-D753396-\$ or US-D738105-\$ or US-D649350-\$ or US-D536580-\$ or US-D527225-\$ or US-6305498-\$ or US-D420860-\$ or US-D415393-\$ or US-D361511-\$ or US-D352208-\$ or US-D340167-\$ or US-D326815-\$ or US-D325324-\$ or US-5098235-\$ or US-D319016-\$ or US-4971201-\$ or US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$).did. or				
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	(US-10434638-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$).did. or (US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$).did. or (US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$).did. or (US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$ or US-D871013-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-9750543-\$ or US-9701443-\$ or US-9643629-\$ or US-9616562-\$ or US-9566990-\$ or US-9511491-\$ or US-9132543-\$).did. or (US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$ or US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-				
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	7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-7147243-\$ or US-7066475-\$).did. or (US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$ or US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-5988473-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-5429260-\$ or US-5301829-\$ or US-5240264-\$).did. or (US-5105947-\$ or US-5035445-\$ or US-4168076-\$ or US-3974898-\$ or US-3506321-\$ or US-3117692-\$).did. or (US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$).did. or (US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$).did. or (US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$).did. or (US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$			
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		or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-3506321-\$ or US-3117692-\$).did.				
L43	8	L1 not (L3 L4 L23 L42)	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/08 23:05
S1	1,013	((("MILWAUKEE") near3 ("ELECTRIC") near3 ("TOOL") near3 ("CORPORATION"))).AS,AANM.	USPAT	OR	OFF	2020/11/24 16:18
S2	73	((("Brunner") near3 ("Yaron"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:18
S3	60	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:18
S4	93	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:18
S5	166	((("Hyma") near3 ("Steven") near3 ("W"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:18
S21	73	(US-0034515-\$ US-0094393-\$ US-0099405-\$ US-0125072-\$ US-0186513-\$ US-0221177-\$ US-0243925-\$ US-0292213-\$ US-0299027-\$ US-10106180-\$ US-10583962-\$ US-20020125072-\$ US-20030094393-\$ US-20120292213-\$ US-20150034515-\$ US-20160221177-\$ US-20180099405-\$ US-20180186513-\$ US-20200243925-\$ US-20200299027-\$ US-3225865-\$ US-4971201-\$ US-5098235-\$ US-6305498-\$ US-9506489-\$ US-9725209-\$ US-D232798-\$ US-D319016-\$ US-D325324-\$ US-D326815-\$ US-D340167-\$ US-D352208-\$ US-D361511-\$ US-D415393-\$ US-D420860-\$ US-D527225-\$ US-D536580-\$ US-D649350-\$ US-D738105-\$ US-D753396-\$ US-D777426-\$ US-D784089-\$ US-D803631-\$ US-D806483-\$ US-D831352-\$ US-D836995-\$	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:22

		US-D839681-\$ US-D845080-\$ US-D845081-\$ US-D857387-\$ US-D873085-\$ US-D880252-\$ US-D880951-\$ US-D883752-\$ US-D887788-\$ US-D888422-\$ US-D888503-\$ US-D891193-\$ US-D891195-\$ US-D891875-\$ US-D892565-\$ US-D895375-\$).DID.				
S22	270	(US-0000440-\$ US-0002004-\$ US-0006770-\$ US-0023349-\$ US-0024468-\$ US-0026901-\$ US-0027475-\$ US-0031222-\$ US-0031731-\$ US-0031732-\$ US-0038367-\$ US-0039781-\$ US-0044059-\$ US-0052276-\$ US-0055534-\$ US-0062244-\$ US-0068757-\$ US-0068903-\$ US-0071990-\$ US-0073516-\$ US-0076759-\$ US-0090616-\$ US-0103494-\$ US-0104308-\$ US-0104921-\$ US-0106244-\$ US-0115312-\$ US-0115715-\$ US-0119060-\$ US-0121056-\$ US-0121547-\$ US-0121783-\$ US-0127129-\$ US-0130034-\$ US-0134607-\$ US-0138382-\$ US-0139566-\$ US-0139665-\$ US-0139745-\$ US-0144500-\$ US-0145700-\$ US-0145790-\$ US-0145866-\$ US-0145913-\$ US-0146589-\$ US-0147642-\$ US-0147781-\$ US-0153312-\$ US-0154218-\$ US-0155613-\$ US-0160886-\$ US-0161518-\$ US-0161975-\$ US-0165036-\$ US-0165828-\$ US-0166352-\$ US-0166516-\$ US-0168880-\$ US-0169739-\$ US-0171228-\$ US-0174392-\$ US-0178946-\$ US-0180250-\$ US-0181008-\$ US-0184034-\$ US-0186624-\$ US-0194543-\$ US-0195793-\$ US-0205877-\$ US-0206656-\$ US-0207571-\$ US-0217464-\$ US-0219193-\$ US-0220531-\$ US-0220758-\$ US-0223971-\$ US-0225371-\$ US-0236482-\$ US-0239808-\$ US-0254946-\$ US-0257958-\$ US-0266804-\$ US-0271280-\$ US-0271616-\$ US-0274362-\$ US-0277221-\$ US-0290288-\$ US-0308369-\$ US-0318927-\$ US-0320243-\$ US-0326406-\$ US-0349013-\$ US-0376917-\$ US-10434638-\$ US-2042387-\$ US-2430200-\$ US-2970358-\$ US-2002000440-\$ US-20020171228-\$ US-20030115715-\$ US-20030146589-\$ US-20030184034-\$ US-20030205877-\$ US-20040103494-\$ US-20040195793-\$ US-20040206656-\$ US-20050062244-\$ US-20050104308-\$ US-20050139745-\$ US-20060006770-\$ US-20060027475-\$ US-20060038367-\$ US-20060119060-\$ US-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:25

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S23	88	(US-20170349013-\$ US-20180044059-\$ US-20180153312-\$ US-20180161975-\$ US-20180220758-\$ US-20180290288-\$ US-20190002004-\$ US-20190031222-\$ US-20190039781-\$ US-20190106244-\$ US-20190225371-\$ US-20200055534-\$ US-20200147781-\$ US-20200165036-\$ US-3117692-\$ US-3506321-\$ US-3974898- \$ US-4168076-\$ US-5035445-\$ US- 5105947-\$ US-5240264-\$ US-5301829-\$ US-5429260-\$ US-5538213-\$ US-5595228- \$ US-5608603-\$ US-5628443-\$ US- 5797617-\$ US-5951037-\$ US-5988473-\$ US-6050660-\$ US-6085925-\$ US-6109627- \$ US-6176559-\$ US-6347847-\$ US- 6367631-\$ US-6371320-\$ US-6431580-\$ US-6547347-\$ US-6601930-\$ US-6619772- \$ US-6637707-\$ US-6641013-\$ US- 6945546-\$ US-6948691-\$ US-6983946-\$ US-7044484-\$ US-7066475-\$ US-7147243- \$ US-7263742-\$ US-7367571-\$ US-	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:26

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	"6755428"	"6758482"	"6772673"				
	"6773327"	"6774597"	"6783147"				
	"6792935"	"6793223"	"6796319"				
	"6799689"	"6805113"	"6811180"				
	"6814362"	"6824150"	"6831436"				
	"6837318"	"6840588"	"6843062"				
	"6883267"	"6889118"	"6893030"				
	"6917176"	"6918563"	"6921101"				
	"6923516"	"6923693"	"6926294"				
	"6932362"	"6932365"	"6936003"				
	"6944981"	"6948334"	"6962354"				
	"6981705"	"6983941"	"6993931"				
	"7011224"	"7017940"	"7040115"				
	"7040426").PN. OR ("7051550"	"7066476"					
	"7066628"	"7070196"	"7080920"				
	"7090637"	"7108335"	"7121560"				
	"7137465"	"7143601"	"7150460"				
	"7155859"	"7171279"	"7188473"				
	"7188491"	"7210545"	"7213817"				
	"7229093"	"7232183"	"7249772"				
	"7252295"	"7284763"	"7296816"				
	"7306243"	"7311487"	"7322586"				
	"7331436"	"7334802"	"7340917"				
	"7389608"	"7398618"	"7407170"				
	"7415321"	"7419168"	"7451709"				
	"7458589"	"7458590"	"7458591"				
	"7458592"	"7464943"	"7475745"				
	"7475889"	"7487977"	"7513510"				
	"7540344"	"7540364"	"7543828"				
	"7546912"	"7549653"	"7549655"				
	"7559559"	"7562897"	"7575075"				
	"7597334"	"7597762"	"7600592"				
	"7628406"	"7645047"	"7648147"				
	"7654348"	"7658442"	"7661685"				
	"7677581"	"7677592"	"7681412"				
	"7703795"	"7722204"	"7762363"				
	"7784816"	"7789401"	"7798264"				
	"7798886"	"7815003"	"7823906"				
	"7828306"	"7843431"	"7845440"				
	"7845653"	"7857327"	"7860614"				
	"7900723"	"8002365"	"8016304"				
	"8210304"	"8327963"	"8465031"				
	"8540039"	"8573505"	"8668039"				
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	"9022395"	"9150235"	"9186570"				
	"9211901"	"9233701"	"9316428"				
	"9389010"	"9403566"	"9415786"				

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S34	20	("2015/0241107").URPN.	USPAT	OR	OFF	2020/11/24 16:42
S35	6	("2014/0014669").URPN.	USPAT	OR	OFF	2020/11/24 16:46
S36	42	("1531542" "1946593" "20040195793" "20050263527" "20100155349" "20110220531" "20110315695" "20140014669" "3194426" "4551988" "5249438" "5465985" "5803472" "5890613" "5947032" "6244064" "6328179" "6364329" "6467779" "7140507" "7278234" "7389608" "7415794" "8925752").PN. OR ("9500400").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:46
S37	15	("2004/0195793").URPN.	USPAT	OR	OFF	2020/11/24 16:47
S38	82	("20020175172" "20030136699" "20040035867" "20040112906" "20040173996" "20040195793" "20050051549" "20050109654" "20060119060" "20060201943" "20070045146" "20070202221" "20070235963" "20080047855" "20080296183" "20090212514" "20100108556" "20110186458" "20120292867" "20140014539" "20140210188" "20140251996" "20140360899" "20150151566" "2338477" "2765099" "3376046" "3613940" "3777896" "3912158" "3923318" "3963256" "4091953" "4291829" "4316540" "4363821" "4576389" "4688675" "4756420" "5042674" "5058763" "5105947" "5564805" "5599031" "5662223" "5674546" "5709008" "5713509" "5718168" "5718350" "5906291" "5924572" "6095533" "6105980" "6109456" "6886694" "6964423" "6983946" "7124891" "7188745" "7205016"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:47

		"7255231" "7303075" "7364172" "8157094" "8256242" "8567795" "8684372" "8714568" "8727163" "8876145" "8910955" "9050852" "9409585").PN. OR ("9522763").URPN.				
S39	56	("3376046").URPN.	USPAT	OR	OFF	2020/11/24 16:51
S40	40	("2885135" "3376046" "3539071" "3568879" "3987829" "4174950" "4765252" "4844263" "D248015").PN. OR ("D333094").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:53
S41	78	("0879455" "20040134390" "20040178208" "20060254946" "20060254947" "20080017650" "20100219193" "2695115" "2849151" "3103278" "3117692" "3383009" "3391824" "3407758" "3419184" "3481502" "3616943" "3754645" "3756396" "3759416" "3811747" "3916803" "3926321" "3968879" "4287997" "4618059" "4655360" "4765252" "4832200" "4848605" "4889235" "5054617" "5203494" "5392945" "5404829" "5454477" "5641090" "5718350" "5769230" "5779051" "5974981" "6021916" "6085467" "6186345" "6237758" "6308858" "6371364" "6446563" "6457599" "6585090" "6622642" "6662950" "6698362" "7163122" "D236326" "D333094" "D361715" "D446017" "D500924").PN. OR ("8851287").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:54
S42	4	B65D71/0088,0092,0096.cpc. and (dovetail (dove adj tail))	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:55
S43	10	((("1261155") or ("1498377") or ("1826835") or ("1900980") or ("2400197"))).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:57
S44	3	("1498377").URPN.	USPAT	OR	OFF	2020/11/24 16:57
S45	0	("2830699").URPN.	USPAT	OR	OFF	2020/11/24 16:58
S46	1,656	(truck) and (tool adj box)	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:58

S47	10	("20030230909" "20130021453" "20140117062" "3688954" "4420238" "4465187" "5018779" "6152513" "6886876" "D374654").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:03
S48	127	B25H1/\$.cpc. and (dovetail (dove adj tail))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:05
S49	118	B25H3/\$.cpc. and (dovetail (dove adj tail))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:06
S50	7	B25H5/\$.cpc. and (dovetail (dove adj tail))	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:06
S51	13	("20080087128" "20080244888" "20050265798" "20020057952" "20020131836" "20140305217" "20030116331" "20100031487" "20160176003" "6172374" "20080083128" "5584818" "5379510").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:07
S52	48	("20040188322" "20160075010" "20160194115" "4863222" "6082539" "7237673" "8561679" "8979100" "D645663" "9725209" "20110155613" "0263561" "5570784" "6349827" "D563102" "D648531" "D781584" "D528793" "RE47022" "4619363" "8602217" "20120152944" "20150353231" "5617953" "8590704" "8875888" "D563671" "5890613" "6271320" "6543613" "6868967" "7690856" "8459495" "8714355" "D563670" "5803254" "7322470" "9469024" "20030094392" "5887715" "8322354" "6889838" "8505729" "20020179473" "4643494" "5934466" "7219969").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:10
S53	14	("2016/0194115").URPN.	USPAT	OR	OFF	2020/11/24 17:10
S54	48	("0263561" "20020179473" "20030094392" "20040188322" "20110155613" "20120152944" "20150353231" "20160075010" "20160194115" "4619363" "4643494" "4863222" "5570784" "5617953" "5803254" "5887715" "5890613" "5934466" "6082539" "6271320" "6349827" "6543613" "6868967" "6889838" "7219969" "7237673"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:11

		"7322470" "7690856" "8322354" "8459495" "8505729" "8561679" "8590704" "8602217" "8714355" "8875888" "8979100" "9469024" "9725209" "D528793" "D563102" "D563670" "D563671" "D645663" "D648531" "D781584" "RE47022").PN. OR ("10603783").URPN.				
S55	21	("20080000899" "20090255092" "4714158" "8636169" "20130021787" "20060157373" "7559514" "20150021322" "20140311926" "0532324" "20020179462" "20160130034" "4505506" "5415277" "4364150" "6059109" "20100176022" "5423445" "5609282" "5904388").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:12
S56	31	("1385484" "2888970" "3201035" "4616752" "6202847" "6648390" "6874634" "7137522").PN. OR ("7690856").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:15
S57	7	("3201035").URPN.	USPAT	OR	OFF	2020/11/24 17:19
S58	24	((("0577452") or ("0895867") or ("1126977") or ("2199970") or ("2522483") or ("2563094") or ("2703200") or ("2715559") or ("2974808") or ("3030163") or ("3081023") or ("3107012"))).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:20
S59	42	("2807387" "3182856" "4724756" "5083664" "5375709" "5445269").PN. OR ("5934466").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:24
S60	23	("3182856" "4293070" "4404615" "4427114" "4553190" "4557382" "4561554" "4886163" "5107989" "5180615" "5244087").PN. OR ("5375709").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:26
S61	26	("3224822" "3401993" "3552817" "3851936" "3907116" "4178047" "4243279" "4317603" "4328902" "4420196" "5271515" "5375709" "5775046" "6050657").PN. OR ("7350648").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:26
S62	151	("1409838" "20010040080" "20020074332" "20020130005" "20020185350" "20030034215" "20030034636" "20040000457" "20040004332" "20040026199" "20040074725" "20040163910" "20040211634" "20040238303"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:27

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"20050098402"	"20050103590"				
"20050150733"	"20050258621"				
"20050285359"	"20060010644"				
"20060086583"	"20060102677"				
"20060163305"	"20060175170"				
"20060196743"	"20060207848"				
"20080060953"	"20080136133"				
"20080223679"	"20080236972"				
"20080308369"	"20080308370"				
"20090057082"	"20090139813"				
"20090160147"	"20090218187"				
"20100000805"	"20100025174"				
"20100095480"	"20100108452"				
"20100147642"	"20100263977"				
"20100307879"	"20100308563"				
"20110247910"	"20120160617"				
"20120261223"	"20150091264"				
"20160045000"	"2454438"	"2602675"			
"3131829"	"3178197"	"3317081"			
"3659867"	"3842953"	"3891230"			
"3974898"	"4087102"	"4314624"			
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"5630601"	"5749503"	"5803471"			
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"5984327"	"6016893"	"6042127"			
"6047442"	"6141841"	"6179176"			
"6182981"	"6186295"	"6196366"			
"6196560"	"6213266"	"6213267"			
"6237734"	"6260871"	"6279705"			
"6289554"	"6305587"	"6360400"			
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"6409412"	"6454065"	"6471019"			
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"6533086"	"6575493"	"6591950"			
"6604617"	"6609271"	"6736073"			
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"7066311"	"7070190"	"7073694"			
"7093700"	"7097181"	"7097183"			
"7143912"	"7226073"	"7232018"			
"7237660"	"7281616"	"7284304"			
"7318507"	"7328779"	"7350648"			
"7374183"	"7426985"	"7441785"			
"7478803"	"7594569"	"7597341"			
"7780026"	"8607947").PN. OR				
("9888752").URPN.					

S63	19	("2010/0147642").URPN.	USPAT	OR	OFF	2020/11/24 17:28
S64	172	("10434638" "20020000440" "20020171228" "20030115715" "20030146589" "20030184034" "20030205877" "20040103494" "20040195793" "20040206656" "20050062244" "20050104308" "20050139745" "20060006770" "20060027475" "20060038367" "20060119060" "20060186624" "20060254946" "20070068757" "20070090616" "20070145700" "20070194543" "20080104921" "20080115312" "20080121547" "20080134607" "20080169739" "20080271280" "20080277221" "20080308369" "20090026901" "20090071990" "20090145790" "20090145866" "20090145913" "20090178946" "20100052276" "20100139566" "20100147642" "20100219193" "20110073516" "20110139665" "20110155613" "20110181008" "20110220531" "20120160886" "20120180250" "20120207571" "20120326406" "20130024468" "20130031731" "20130031732" "20130121783" "20130127129" "20130223971" "20140161518" "20140166516" "20150376917" "20160023349" "20160130034" "20160144500" "20160168880" "20170121056" "20170138382" "20170165828" "20170166352" "20170174392" "20170217464" "20170239808" "20170257958" "20170266804" "20170318927" "20180044059" "20180161975" "20180186513" "20180220758" "20180290288" "20190002004" "20190039781" "20190106244" "20190225371" "2042387" "2430200" "2970358" "3117692" "3506321" "3974898" "4168076" "5035445" "5105947" "5240264" "5301829" "5429260" "5595228" "5608603" "5628443" "5797617").PN. OR ("5951037" "5988473" "6050660" "6085925" "6109627" "6176559" "6347847" "6367631" "6371320" "6431580" "6547347" "6601930"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:29

		"6619772" "6637707" "6641013" "6945546" "6948691" "6983946" "7044484" "7066475" "7147243" "7263742" "7367571" "7503569" "7658887" "7780026" "7841144" "8028845" "8132819" "8177463" "8191910" "8454033" "8459495" "8505729" "8567796" "8677661" "8689396" "8714355" "8813960" "8875888" "8979100" "8985922" "9132543" "9506489" "9511491" "9566990" "9616562" "9643629" "9701443" "9872562" "D525789" "D630851" "D653832" "D661858" "D663952" "D664354" "D674605" "D701696" "D738106" "D753394" "D753395" "D765974" "D770179" "D790221" "D814187" "D816334" "D826510" "D833744" "D837515").PN. OR ("D897103").URPN.				
S65	9	("2018/0220758").URPN.	USPAT	OR	OFF	2020/11/24 17:30
S66	24	("20110139665" "20110155613" "3410376" "5544751" "20150069962" "4643494" "8561769" "6367631" "1084360" "8602217" "6098819" "3891230" "6585090" "8590704" "3757911" "6213266" "20080121547" "1084360" "5971119" "20100224528" "20140062281" "20150274362" "20170318927").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:30
S67	51	("1575270" "20020170933" "20030141329" "20050247653" "20060237509" "20080142462" "20080179370" "20080185353" "20090145789" "20090145866" "20140075650" "20170266804" "2290468" "2546720" "2763377" "2964196" "3145031" "3536286" "4264013" "4923202" "4932576" "5395023" "5511705" "5722576" "5881891" "5971242" "6213365" "6666465" "6698632" "6874624" "7090075" "7322482" "7686196" "7699197" "7726495" "7762440" "8267260" "8510868" "9038869" "D163637" "D165553" "D328681").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:20
S68	18	("2715966" "20050247653" "4771897" "5429252" "5740927" "5845792" "6152312" "6267338" "6435357" "6564949" "6698603" "6871749"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:20

		"7014052" "7028854" "7117998" "6581788" "5915573").PN.				
S69	43	("2754974" "4693381" "4771897" "4869378" "5224609" "5472167" "5524772").PN. OR ("5740927").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:22
S70	17	("20130134193" "20130269509" "2783896" "4776471" "5078279" "5438787" "5740927" "5762245" "5791499" "6546598" "6572168" "6626477" "7047771").PN. OR ("8939335").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:23
S71	71	("2708088" "3701436" "3876079" "4084735" "4108313" "4271997" "4450989" "4776471").PN. OR ("5078279").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:24
S72	58	("0554252" "1202588" "1951255" "20050133473" "20060113341" "20060288625" "20070170129" "20110168649" "20120228243" "2783896" "2958422" "2987285" "4113107" "4132315" "4141452" "4174042" "4461385" "4776471" "4936531" "4982522" "4986427" "5062184" "5078279" "5222701" "5265950" "5524772" "5806691" "5979846" "6129252" "6427497" "6929233" "6935065" "6986446" "7267353" "7467719" "7478892" "7770740" "8444034" "D611558").PN. OR ("8678206").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:26
S73	32	("0670870" "2724881" "3069538" "3197830" "3421187" "3463436" "3746294" "3888440" "3894707" "4391376" "4638966" "4768741" "5062184").PN. OR ("5222701").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:29
S74	32	("2653686" "3154281" "3253084" "3632071" "3807675" "3809799" "3894706" "3913876" "3917202" "3985275" "4023758").PN. OR ("4391376").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:31
S75	18	("20140259566" "2384158" "3226069" "3633857" "3894707" "4391376" "4524937" "5098054" "5105509" "5487518" "5906302" "7261256" "8413933" "9127807" "9303792" "D343975").PN. OR ("10758065").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:31

S76	39	("2937766" "3319983" "4955573" "5020760" "5190260").PN. OR ("5487518").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:33
S77	26	("20020125389" "20040051015" "20040238702" "2908471" "3695569" "3702591" "3774788" "4071216" "4306702" "5078279" "5351842" "D373719").PN. OR ("8500078").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:41
S78	24	("2651710" "3403641" "3526934" "3756637" "4199070" "4460141" "4819309" "4953146" "5058843" "5794897" "5941483" "6079673" "6357194" "6783101" "7007900" "7484698" "8342474" "8500078").PN. OR ("9267624").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:42
S79	53	("20040056156" "20080296443" "20090218451" "20090277524" "4618114" "4919372" "5123547" "5794897" "5921509" "6053456" "6227502" "6378811" "6378813" "6561466" "6715247" "6889944" "7281356").PN. OR ("8342474").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:43
S80	31	("20050211463" "3125196" "3523667" "3526934" "3765629" "3856246" "4093076" "4336673" "4601447" "4618114" "4856658" "5104072" "5642612" "5791607" "5823484" "5829243" "5855279" "6375129" "6378811" "6513781" "6889944" "7467767" "7497718" "7686259" "7802680" "7828251" "8074945" "8079552").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:44
S81	22	("4410095" "4770297" "5351417" "5484057" "5595294" "6047827" "7395984").PN. OR ("7802680").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:45
S82	126	("0136905" "0177936" "0327939" "0342194" "0543735" "0570465" "0632234" "0687431" "0724427" "0754503" "0764774" "0888032" "0914469" "1653374" "1848937" "1936813" "20040020880" "20040108734" "20060022105" "20070251904" "20080053931" "20080169395" "20080179898" "20100264102" "20110042333" "20120012726" "20120111814" "20120152871" "20120181244" "20150250333" "20170127867" "2141009" "2273641"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:46

		"2309990" "2344339" "2369336" "2447128" "2485201" "2754974" "2842264" "2919881" "3285426" "3289994" "3343684" "3612426" "4308961" "4609233" "4658967" "4750698" "4773172" "4775127" "4882868" "4905846" "4936469" "5060897" "5080238" "5104083" "5154304" "5312081" "5348167" "5398820" "5433413" "5441161" "5480206" "5584462" "5584521" "5727698" "5853092" "5897002" "5906403" "6257409" "6283311" "6289618" "6299000" "6349909" "6427500" "6557807" "6604637" "6607234" "6637707" "6789771" "6886791" "6932223" "6935518" "7040125" "7228977" "7427053" "7658265" "7694933" "7802680" "8550265" "9339130" "D043289" "D175455" "D855408").PN. OR ("10729244").URPN.				
S83	20	("0488851" "1045932" "20020070136" "20020104709" "20050258002" "5370263" "5433413" "5673885" "5782314" "5873433" "5950972" "7032711" "7063187").PN. OR ("7658265").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:48
S84	8	("20070284191" "20090127146" "4653713" "6138963" "6401862" "6997282" "7540560" "7658265").PN. OR ("10184292").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:49
S85	76	("1858656" "2308180" "2444096" "2798652" "3495683" "3631572" "3915189" "4261435" "4300740" "4428458" "4480810").PN. OR ("4653713").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:50
S86	51	("1794700" "20020017430" "20050258002" "20070181367" "20090078504" "20090179125" "3477679" "3915189" "4176580" "4653713" "4858869" "5035389" "5240214" "5259480" "5358070" "5370263" "5433416" "5503245" "5547080" "5573081" "5584357" "5622278" "5740883" "5782314" "5899420" "5924615" "6401862" "6412601" "6443260" "6467577" "6827215" "6837383" "7032711" "7270307").PN. OR ("8453796").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:53
S87	42	("4211455" "4303158" "4437568" "4703850" "4911296" "4928823"	US- PGPUB;	OR	OFF	2020/11/24 22:55

		"5370263" "5547080" "5725096" "5727649" "5749437" "5901998" "5913380" "5924615" "5951129" "5971101" "6095156").PN. OR ("6837383").URPN.	USPAT; USOCR			
S88	19	("2835503" "3084463" "4828120" "6189248" "6220461" "6264220" "6367752" "6698701" "6712324" "6837383" "7798336").PN. OR ("8517320").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:56
S89	147	("1855314" "1869901" "1879332" "1900868" "20030106498" "20030192480" "20040112258" "20050072894" "20050115508" "20050246989" "20050279898" "20060011142" "20060042549" "20060196436" "20070028854" "20080023479" "20080179265" "20080190372" "20080237434" "20090001231" "20100107984" "20100162961" "20110049065" "20110114025" "20120325158" "20130334377" "20140346293" "20150122185" "20190053623" "2555396" "2845896" "3099355" "3260559" "3630385" "3669035" "3698594" "3776193" "4044723" "4065195" "4205629" "4261294" "4329003" "4498654" "4532891" "4587930" "4699089" "4798170" "4843977" "4919498" "4976223" "4986332" "5000124" "5054431" "5144912" "5152247" "5226625" "5435266" "5501176" "5718493" "5730081" "5802647" "5855184" "5870969" "6098941" "6131521" "6161486" "6189489" "6199510" "6209487" "6308641" "6382578" "6394001" "6409137" "6427626" "6516948" "6526911" "6705249" "6729685" "6901880" "6945194" "7077372" "7124709" "7261264" "7284500" "7314023" "7341019" "7395765" "7513219" "7530329" "7614363" "7665417" "7748538" "7802327" "7837165" "7938083" "7963231" "8146534" "8148651" "8245992" "8308115" "8342129" "8381661" "8443736" "8517320" "8671598" "8672172" "8684195" "8776725" "8807082" "8833305" "8893657" "9284776" "D209754" "D209755" "D213377"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:57

		"D213378").PN. OR ("D216989" "D229073" "D357557" "D358233" "D375818" "D421160" "D424758" "D424759" "D491697" "D506295" "D622013" "D657920" "D662265" "D676612" "D695974").PN. OR ("10412929").URPN.				
S90	26	("1900868" "20030116094" "20040144330" "20090015121" "20130145990" "2555396" "2659345" "2800380" "2997022" "3606506" "3743372" "4231626" "4634193" "5144912" "5152247" "5222990" "5435266" "7458338" "8342129").PN. OR ("8893657").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:00
S91	83	("2842420" "2998128" "3032381" "3294463" "3501044" "3552817").PN. OR ("3743372").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:03
S92	34	("3514170" "3552817" "3743372" "3999818" "5046789" "5454634" "5704699" "5775046" "6003924" "6015050" "6027188" "6050657" "6488346").PN. OR ("7100999").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:06
S93	102	("3468081" "3668832" "3836217" "4003172" "4095769" "4243279" "4413867" "4423913" "4577914" "4768298" "4867513" "5046789" "5267863" "D334704" "D337653").PN. OR ("5775046").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:09
S94	42	("1520518" "1870978" "20040198141" "3241885" "3415007" "3669033" "3966337" "4039133" "4163537" "4212130" "4216729" "4223945" "4270302" "4915034" "5226864" "5715760" "5775046" "5813737" "5899423" "5988077" "6220180" "6283042" "6341566" "6382109" "8191488" "D370045").PN. OR ("8316781").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:14
S95	41	("20040226901" "20070023464" "2100421" "2996192" "3172540" "3452959" "3497079" "3799357" "4480755" "4509648" "4516681" "4932538" "5083668" "5775046" "5927517" "5944203" "6015124" "6062399" "6481584" "6491172" "6929131" "6945414").PN. OR ("7798338").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:17
S96	159	("20010047971" "20030189019" "2029089" "3192667" "3204776"	US-PGPUB;	OR	OFF	2020/11/24 23:18

		"3310271" "3469710" "3698565" "3733756" "4223488" "4229913" "4323163" "4420087" "4438604" "4450970" "4572381" "4579308" "4589557" "4591058" "4593824" "4598504" "4602756" "4607753" "4615448" "4629076" "4638618" "4674240" "4677794" "4805783" "4805784" "4809479" "4811475" "4825601" "4826022" "4891897" "4932538" "4944416" "4961295" "5138803" "5142832" "5185971" "5228579" "5241796" "5337525" "5360121" "5375802" "5412912" "5429252" "5477969" "5484067" "5547156" "5582376" "5655674" "5671852" "5697507" "5740927" "5791093" "5819490" "5857577" "5899344" "5941026" "5944203" "6050426" "6068135" "6116435" "6119784" "6119878" "6123154" "6134846" "6164467" "6199705" "6209730" "6276034" "6299001" "6311854" "6325223" "6349507" "6363645" "6591996").PN. OR ("6945414").URPN.	USPAT; USOCR			
S97	20	("20060243766" "20070094955" "20100307649" "20130081233" "20130193179" "20140374564" "2920767" "3605637" "4256424" "4687094" "4708311" "5083668" "5674033" "6824028" "6945414" "7261264" "7392912" "8613564").PN. OR ("10683963").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:20
S98	39	("20050072746" "3200960" "4094415" "4509648" "4826022" "5109993" "5154304" "5316252" "5484067" "5595309" "5927517" "6068135" "6070747" "6481584" "6491172" "6536613" "6561474" "6575314" "6644483" "6675978").PN. OR ("7392912").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:23
S99	54	("1787734" "2997270" "3229944" "3278146" "4204602" "4909464" "5056668" "5069416" "Re33596").PN. OR ("5316252").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:25
S100	9	("2997270").URPN.	USPAT	OR	OFF	2020/11/24 23:27
S101	61	("0511617" "1890000" "2492697" "2557630" "2807387" "3203744" "3283915" "3514170" "3743372"	US- PGPUB;	OR	OFF	2020/11/25 00:00

		"3758181" "3918781" "3999818" "4026615" "4056295" "4120549").PN. OR ("4243279").URPN.	USPAT; USOCR			
S102	14	("3899229" "4054344" "4087145" "4216857" "4243279" "D238401" "D247794").PN. OR ("D285986").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 00:01
S103	58	("3552817").URPN.	USPAT	OR	OFF	2020/11/25 11:50
S104	83	("2842420" "2998128" "3032381" "3294463" "3501044" "3552817").PN. OR ("3743372").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 18:49
S105	66	("2128854" "3743372").PN. OR ("4863222").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 18:50
S106	6	((("0460177") or ("1294446") or ("2568147"))).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:00
S107	9	("1294446").URPN.	USPAT	OR	OFF	2020/11/25 19:01
S108	61	("0722828" "2473951" "2584050" "4059248" "4141524" "4432525" "4653713" "4805859" "4819922" "4874147" "4967929" "4986505" "5007612" "5009380").PN. OR ("5240214").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:27
S109	52	("2476134" "2512934" "4095364" "4382733" "4700923").PN. OR ("4805859").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:29
S110	60	("4132380" "4307864" "4524938" "4974798").PN. OR ("5035389").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:31
S111	19	("2696962" "4929973" "5035389" "5040712" "5129613" "5282554" "5332183" "5356105" "5653366" "5730348" "5730406" "6036071" "6315182" "7225958" "8020821").PN. OR ("8448829").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:34
S112	26	("3334953" "4249684" "4938398" "4993771" "5255832" "5395019").PN. OR ("5653366").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:35

S113	42	("0613226" "0637733" "0767823" "3613970" "3955729" "4056219" "4260086" "4315583" "4366922" "4415105" "4440332" "4542839" "4638933" "4730758" "4981243" "5024359" "5105958").PN. OR ("5282554").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:37
S114	56	("4088848" "4419794" "5026016" "5035389" "5054170" "5375749" "5428866" "5567038" "5593121" "5604958" "5622296" "5729869").PN. OR ("5957421").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:40
S115	8	("2017/0138382").URPN.	USPAT	OR	OFF	2020/11/25 19:53
S116	84	("2461526" "3078484" "3114486" "3233803" "3749294" "3902640" "3915189" "4082208" "4287997" "4307826" "4366922" "4424841" "4491258" "4545414" "4673070" "4790432" "4813542" "4884731" "5131576" "5184763" "5321904" "5419473").PN. OR ("5628443").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:58
S117	67	("3194426" "3642337" "4192562" "4893719" "5263576" "5299688" "5310071").PN. OR ("5890613").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 20:23
S118	609	224/583,645,629,665.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 20:24
S119	301	150/113.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 20:24
S120	552	190/110.ccls.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 20:24
S121	14	("2009/0145866").URPN.	USPAT	OR	OFF	2020/11/25 22:27
S122	12	("20110139777" "5301829" "5427265" "8602217").PN. OR ("9701443").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 22:30
S123	17	("4181349" "4188058" "4911493" "5131709" "5137322" "5154478" "5421634" "5722711" "D271009").PN. OR ("6017075").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:10

S124	430	(US-20200299027-\$ or US-20200243925-\$ or US-20180186513-\$ or US-20180099405-\$ or US-20160221177-\$ or US-20150034515-\$ or US-20120292213-\$ or US-20030094393-\$ or US-20020125072-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20140166516-\$).did. or (US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$ or US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$).did. or (US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$ or US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$).did. or (US-20030205877-\$ or US-20030184034-\$ or US-20030146589-\$ or US-20030115715-\$ or US-20020171228-\$ or US-20020000440-\$ or US-20200165036-\$ or US-20200147781-\$ or US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20180161975-\$ or US-20180153312-\$ or US-20180044059-\$ or US-20170349013-\$).did. or (US-D895375-\$ or US-D892565-\$ or US-D891875-\$ or US-D891195-\$ or US-D891193-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:22
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	\$ or US-D888503-\$ or US-D888422-\$ or US-D887788-\$ or US-D883752-\$ or US-D880951-\$ or US-D880252-\$ or US-10583962-\$ or US-D873085-\$ or US-D857387-\$ or US-D845081-\$ or US-D845080-\$ or US-D839681-\$ or US-D836995-\$ or US-D831352-\$ or US-10106180-\$ or US-D806483-\$ or US-D803631-\$ or US-9725209-\$ or US-D784089-\$ or US-D777426-\$ or US-9506489-\$).did. or (US-D753396-\$ or US-D738105-\$ or US-D649350-\$ or US-D536580-\$ or US-D527225-\$ or US-6305498-\$ or US-D420860-\$ or US-D415393-\$ or US-D361511-\$ or US-D352208-\$ or US-D340167-\$ or US-D326815-\$ or US-D325324-\$ or US-5098235-\$ or US-D319016-\$ or US-4971201-\$ or US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$).did. or (US-10434638-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$).did. or (US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$).did. or (US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$).did. or				
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	(US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$ or US-D871013-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-9750543-\$ or US-9701443-\$ or US-9643629-\$ or US-9616562-\$ or US-9566990-\$ or US-9511491-\$ or US-9132543-\$).did. or (US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$ or US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-7147243-\$ or US-7066475-\$).did. or (US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$ or US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-5988473-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-5429260-\$ or US-5301829-\$ or US-5240264-\$).did. or (US-5105947-\$ or US-5035445-\$ or US-4168076-\$ or US-3974898-\$ or US-3506321-\$ or US-3117692-\$).did. or (US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$).did. or (US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$			
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		or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$).did. or (US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$).did. or (US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-3506321-\$ or US-3117692-\$).did.				
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S126	570	220/4.27.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S127	1,079	B65D21/0223,0209,0228.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S128	2,226	A45C5/14.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S129	91	A45C7/005.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:23
S130	3,366	A45C13/02.cpc.	US-PGPUB;	OR	OFF	2020/11/25 23:23

			USPAT; USOCR			
S131	431	A45F3/10.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S132	935	B25H1/04.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S133	199	B25H3/021.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S134	1,147	B62B1/14.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S135	377	A45C7/0045.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S136	473	B25H3/023.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S137	959	B62B5/067.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S138	42	B65D2255/00.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S139	206	B65H2701/533.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:24
S140	16	("3187924" "5743416" "D582190" "4848574" "3563394" "4126366" "6206189" "6786341" "20050189308" "5497877" "4993583" "3252614" "3347394").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 00:46
S141	40	("3000684" "3002630" "3542446" "3734526" "4222544" "4240684" "4429850" "4457527" "4458963" "4509648" "4653638" "4681233" "4706918" "4744613" "4880192"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 00:54

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S142	26	("3182856").URPN.	USPAT	OR	OFF	2020/11/26 19:24
S143	317	(US-20190225371-\$ or US-20180161975-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20190315515-\$ or US-20190291922-\$ or US-20170318927-\$ or US-20160144500-\$ or US-20160008972-\$ or US-20140062281-\$ or US-20180044059-\$ or US-20150376917-\$ or US-20120152944-\$ or US-20110181008-\$ or US-20110049824-\$ or US-20090236255-\$ or US-20040134818-\$ or US-20060027475-\$ or US-20060012139-\$ or US-20120326406-\$ or US-20160023349-\$ or US-20150241107-\$ or US-20140014669-\$).did. or (US-20040195793-\$ or US- 20100219193-\$ or US-20040134390-\$ or US- 20200353612-\$ or US-20200238920-\$ or US- 20200223349-\$ or US-20200165036-\$ or US- 20190381959-\$ or US-20160059906-\$ or US- 20180326572-\$ or US-20180312115-\$ or US- 20030230909-\$ or US-20170320209-\$ or US- 20160256995-\$ or US-20160176003-\$ or US- 20190168376-\$ or US-20160194115-\$ or US- 20160130034-\$ or US-20150021322-\$ or US- 20030094392-\$ or US-20110247910-\$ or US- 20100147642-\$ or US-20150274362-\$ or US- 20150069962-\$ or US-20170266804-\$ or US- 20090145866-\$ or US-20050247653-\$).did. or (US-20070170129-\$ or US-20140259566-\$ or US-20080296443-\$ or US-20170127867-\$ or US-20120111814-\$ or US-20080169395-\$ or US-20080053931-\$ or US-20060022105-\$ or US-20040020880-\$ or US-20090179125-\$ or US-20020017430-\$ or US-20190053623-\$ or US-20080237434-\$ or US-20050279898-\$ or US-20050072894-\$ or US-20130145990-\$ or US-20130193179-\$ or US-20100307649-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20140161518-\$ or US-20110139665-\$ or US-20080104921-\$ or US-20050139745-\$ or US-20030205877-\$ or US-20030184034-\$ or US-20050242144-\$).did. or (US- 20020020729-\$ or US-20200243925-\$ or US- 20170166352-\$ or US-20090127146-\$ or US- 20180127007-\$ or US-20180111635-\$ or US- 20130269844-\$ or US-20190000199-\$ or US- 20120152800-\$ or US-20120074158-\$ or US- 20110073516-\$ or US-20180229889-\$ or US-	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 21:57

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		or US-6027188-\$ or US-5775046-\$ or US-10842264-\$ or US-10676874-\$ or US-10555605-\$ or US-10501929-\$ or US-9661944-\$ or US-9108764-\$).did. or (US-8662120-\$ or US-8316781-\$ or US-9615671-\$ or US-7798338-\$ or US-6945414-\$ or US-10683963-\$ or US-7392912-\$ or US-10285515-\$ or US-5316252-\$ or US-10029275-\$ or US-3278146-\$ or US-1787734-\$ or US-7261264-\$ or US-6824028-\$ or US-4932538-\$ or US-4480755-\$ or US-7565746-\$ or US-7410289-\$ or US-6558222-\$ or US-6357194-\$ or US-6241248-\$ or US-6059631-\$ or US-5993283-\$ or US-4243279-\$ or US-D285986-\$ or US-3999818-\$ or US-3758181-\$).did. or (US-3514170-\$ or US-3203744-\$ or US-4003172-\$ or US-5454634-\$ or US-5046789-\$ or US-8894160-\$ or US-4863222-\$ or US-3851936-\$ or US-3552817-\$ or US-3606506-\$ or US-2800380-\$ or US-1294446-\$ or US-5240214-\$ or US-8991639-\$ or US-4805859-\$ or US-5035389-\$ or US-10017134-\$ or US-8448829-\$ or US-6036071-\$ or US-5653366-\$ or US-5332183-\$ or US-5282554-\$ or US-5105958-\$ or US-4929973-\$ or US-5957421-\$ or US-7699197-\$ or US-1794700-\$).did. or (US-6637707-\$ or US-4856658-\$ or US-6698632-\$ or US-5881891-\$ or US-5628443-\$ or US-10230077-\$ or US-8967379-\$ or US-7900757-\$ or US-6726075-\$ or US-4673070-\$ or US-3974898-\$ or US-5890613-\$ or US-6899346-\$ or US-9701443-\$ or US-1531542-\$ or US-6017075-\$ or US-5899544-\$ or US-5183307-\$ or US-4752095-\$ or US-5271515-\$ or US-4782619-\$ or US-9551367-\$ or US-9375835-\$ or US-5437502-\$ or US-6253948-\$ or US-8813960-\$).did. or (US-2830699-\$ or US-2563094-\$ or US-3278146-\$ or US-2997270-\$ or US-D238401-\$ or US-3514170-\$ or US-3552817-\$ or US-1294446-\$ or US-3182856-\$).did.				
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		US-20130193179-\$ or US-20120152800-\$ or US-20120074158-\$ or US-20110139665-\$ or US-20090127146-\$ or US-20080296443-\$ or US-20050242144-\$ or US-20050139745-\$).did. or (US-5628443-\$ or US-4805859-\$ or US-3743372-\$ or US-10758065-\$ or US-10017134-\$ or US-9132543-\$ or US-8448829-\$ or US-8316781-\$ or US-6726075-\$ or US-6698632-\$ or US-5957421-\$ or US-5890613-\$ or US-5775046-\$ or US-5653366-\$ or US-D343975-\$ or US-5282554-\$ or US-3514170-\$).did.				
S146	430	(US-20200299027-\$ or US-20200243925-\$ or US-20180186513-\$ or US-20180099405-\$ or US-20160221177-\$ or US-20150034515-\$ or US-20120292213-\$ or US-20030094393-\$ or US-20020125072-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20140166516-\$).did. or (US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$ or US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$).did. or (US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$ or US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 22:05

	US-20040103494-\$).did. or (US-20030205877-\$ or US-20030184034-\$ or US-20030146589-\$ or US-20030115715-\$ or US-20020171228-\$ or US-20020000440-\$ or US-20200165036-\$ or US-20200147781-\$ or US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20180161975-\$ or US-20180153312-\$ or US-20180044059-\$ or US-20170349013-\$).did. or (US-D895375-\$ or US-D892565-\$ or US-D891875-\$ or US-D891195-\$ or US-D891193-\$ or US-D888503-\$ or US-D888422-\$ or US-D887788-\$ or US-D883752-\$ or US-D880951-\$ or US-D880252-\$ or US-10583962-\$ or US-D873085-\$ or US-D857387-\$ or US-D845081-\$ or US-D845080-\$ or US-D839681-\$ or US-D836995-\$ or US-D831352-\$ or US-10106180-\$ or US-D806483-\$ or US-D803631-\$ or US-9725209-\$ or US-D784089-\$ or US-D777426-\$ or US-9506489-\$).did. or (US-D753396-\$ or US-D738105-\$ or US-D649350-\$ or US-D536580-\$ or US-D527225-\$ or US-6305498-\$ or US-D420860-\$ or US-D415393-\$ or US-D361511-\$ or US-D352208-\$ or US-D340167-\$ or US-D326815-\$ or US-D325324-\$ or US-5098235-\$ or US-D319016-\$ or US-4971201-\$ or US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$).did. or (US-10434638-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$).did. or (US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-				
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	0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$).did. or (US-0145866-\$ or US-0145790-\$ or US- 0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US- 0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US- 0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US- 0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US- 0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$).did. or (US-0062244-\$ or US-0055534-\$ or US- 0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US- 0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US- 0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$ or US-D871013-\$ or US- D815831-\$ or US-D814187-\$ or US-9872562- \$ or US-9750543-\$ or US-9701443-\$ or US- 9643629-\$ or US-9616562-\$ or US-9566990-\$ or US-9511491-\$ or US-9132543-\$).did. or (US-8985922-\$ or US-8979100-\$ or US- 8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US- 8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US- D661858-\$ or US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-8028845-\$ or US- 7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US- 7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-7147243-\$ or US-7066475-\$).did. or (US-7044484-\$ or US-6983946-\$ or US- 6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US- 6601930-\$ or US-6547347-\$ or US-6431580-\$ or US-6371320-\$ or US-6367631-\$ or US- 6347847-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US- 5988473-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US- 5595228-\$ or US-5538213-\$ or US-5429260-\$ or US-5301829-\$ or US-5240264-\$).did. or (US-5105947-\$ or US-5035445-\$ or US- 4168076-\$ or US-3974898-\$ or US-3506321-\$ or US-3117692-\$).did. or (US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US- 0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US- 0099405-\$ or US-0094393-\$ or US-0034515-\$			
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		or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$).did. or (US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$).did. or (US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$).did. or (US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-3506321-\$ or US-3117692-\$).did.				
S147	24	S145 not S146	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 22:05
S148	26	("3334953" "4249684" "4938398" "4993771" "5255832" "5395019").PN. OR ("5653366").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:29
S149	7	("3334953").URPN.	USPAT	OR	ON	2021/03/04 18:30

S150	42	("0613226" "0637733" "0767823" "3613970" "3955729" "4056219" "4260086" "4315583" "4366922" "4415105" "4440332" "4542839" "4638933" "4730758" "4981243" "5024359" "5105958").PN. OR ("5282554").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:35
S151	19	("1446036" "3881677" "5035389" "5226625" "5282554" "5294012" "5356105" "6637707" "6824114").PN. OR ("7837165").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:36
S152	97	("2708088" "3878589" "3915189" "3931893" "4450989" "4461445" "4858869" "5026016" "5035389" "5078279" "5344032" "5356038" "5433416" "5435511" "5452874" "5765699" "5915572" "D329192" "D386298" "D386304").PN. OR ("6637707").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:38
S153	184	("10434638" "20020000440" "20020171228" "20030115715" "20030146589" "20030184034" "20030205877" "20040103494" "20040195793" "20040206656" "20050062244" "20050104308" "20050139745" "20060006770" "20060027475" "20060038367" "20060119060" "20060186624" "20060254946" "20070068757" "20070090616" "20070145700" "20070194543" "20080104921" "20080115312" "20080121547" "20080134607" "20080169739" "20080271280" "20080277221" "20080308369" "20090026901" "20090071990" "20090145790" "20090145866" "20090145913" "20090178946" "20100052276" "20100139566" "20100147642" "20100219193" "20110073516" "20110139665" "20110155613" "20110181008" "20110220531" "20120160886" "20120180250" "20120207571" "20120326406" "20130024468" "20130031731" "20130031732" "20130121783" "20130127129" "20130154218" "20130223971" "20140076759" "20140161518" "20140166516" "20150274362" "20150376917" "20160023349" "20160130034"	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:38

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S154	8	("2019/0225371").URPN.	USPAT	OR	ON	2021/03/04 19:01
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	"20070194543"	"20080104921"				
	"20080115312"	"20080121547"				
	"20080134607"	"20080169739"				
	"20080271280"	"20080277221"				
	"20080308369"	"20090026901"				
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	"20090178946"	"20100052276"				
	"20100139566"	"20100147642"				
	"20100219193"	"20110073516"				
	"20110139665"	"20110155613"				
	"20110181008"	"20110220531"				
	"20120160886"	"20120180250"				
	"20120207571"	"20120326406"				
	"20130024468"	"20130031731"				
	"20130031732"	"20130121783"				
	"20130127129"	"20130223971"				
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	"20170166352"	"20170174392"				
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	"20170318927"	"20180044059"				
	"20180161975"	"20180186513"				
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	"5301829"	"5429260"	"5595228"			
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	"6085925"	"6109627"	"6176559"			
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	"6431580"	"6547347"	"6601930"			
	"6619772"	"6637707"	"6641013"			
	"6945546"	"6948691"	"6983946"			
	"7044484"	"7066475"	"7147243"			
	"7263742"	"7367571"	"7503569"			
	"7658887"	"7780026"	"7841144"			
	"8028845"	"8132819"	"8177463"			
	"8191910"	"8454033"	"8459495"			
	"8505729"	"8567796"	"8677661"			
	"8689396"	"8714355"	"8813960"			
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S156	8	("2017/0138382").URPN.	USPAT	OR	ON	2021/03/04 19:03
S157	26	("2003/0205877").URPN.	USPAT	OR	ON	2021/03/04 19:05
S158	34	("1787734" "2174140" "3543432" "3622116" "3802652" "3870259" "4088848" "4157803" "4176580" "4468878" "5014458" "5063702" "5086958" "5321904" "5463973" "6637707").PN. OR ("7172164").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:18
S159	16	("7172164" "7673838" "D321885" "D329192" "D411931" "D551008" "D572117" "D635008").PN. OR ("D753982").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:19
S160	34	("0606208" "10258136" "1252207" "20030218110" "20060186304" "20060261223" "20080083865" "20100090857" "3529799" "3622116" "4176580" "4620736" "5026016" "5425524" "5433416" "5806822" "5833205" "6082688" "6142892" "6457687" "6481679" "6779766" "6811348" "7273203" "8011071" "8096026" "D329192" "D753982").PN. OR ("10400949").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:19
S161	5	("2006/0186304").URPN.	USPAT	OR	ON	2021/03/04 19:20
S162	86	("20060186304" "20070039907" "20080209698" "20080237282" "20130168429" "20130232840" "3878589" "3912216" "4132335" "4419794" "4458872" "5014892" "5054170" "5549234" "5605313" "5687942" "5850954" "6142892" "6866940" "7594632" "8303226" "8544805" "9683696" "D139216" "D197188" "D235308" "D239593" "D243190" "D244508" "D246346" "D252851" "D262688" "D272044" "D272211" "D295369" "D298604" "D303716"	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:20

		"D310479" "D313740" "D324991" "D329192" "D408267" "D409079" "D409663" "D410032" "D414207" "D428058" "D438536" "D452081" "D454591" "D465147" "D492187" "D507959" "D511088" "D547637" "D560221" "D567740" "D572117" "D572122" "D607711" "D623046" "D623507" "D685991" "D704035" "D732929" "D753982" "D817152" "D818801" "D819428" "D829079").PN. OR ("D847609").URPN.				
S163	15	("5026016" "5433416" "6176641" "6200062" "8474768" "8544805" "D329192" "D547637" "D604149" "D635008" "D658972").PN. OR ("D704035").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:22
S164	18	("2793407" "3090086" "3547472" "4014618").PN. OR ("6200062").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:23
S165	23	("2793407").URPN.	USPAT	OR	ON	2021/03/04 19:24
S166	8	((("0593330") or ("1182610") or ("1265113") or ("2457002"))).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2021/03/04 19:25
S167	43	("1949114" "2244427").PN. OR ("D329192").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:28
S168	109	("20070170330" "20070294905" "20090044825" "20100054724" "20100132122" "3564984" "3640497" "3860209" "3908949" "3960352" "4026508" "4176815" "4400856" "4527760" "4747570" "5026016" "5375749" "5433416" "5626435" "5857713" "6119878" "6161741" "6302617" "6371424" "6409475" "6481684" "6519144" "6554238" "6637707" "6702604" "6758454" "6840639" "7066435" "7077372" "7172164" "7261264" "7270309" "7594823" "7673838" "7726706" "8215605" "8292521" "8333353" "D329192" "D380219" "D658972").PN. OR ("8544805").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:30

S169	23	("4098423" "4216857" "4561544" "4612603" "4627589").PN. OR ("4747570").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:34
S170	49	(US-20190168376-\$ or US-20120074158-\$ or US-20090127146-\$ or US-20080296443-\$ or US-20050242144-\$ or US-20190225371-\$ or US-20170138382-\$ or US-20070090616-\$ or US-20050139745-\$ or US-20180290288-\$ or US-20060186304-\$ or US-20100054724-\$ or US-20070170330-\$).did. or (US-10758065-\$ or US-8448829-\$ or US-5957421-\$ or US-5890613-\$ or US-5775046-\$ or US-5653366-\$ or US-5282554-\$ or US-4805859-\$ or US-3743372-\$ or US-3514170-\$ or US-5628443-\$ or US-6666362-\$ or US-7837165-\$ or US-6637707-\$ or US-D898320-\$ or US-7172164-\$ or US-D753982-\$ or US-10400949-\$ or US-D847609-\$ or US-D704035-\$ or US-D818801-\$ or US-D547637-\$ or US-6200062-\$ or US-2793407-\$ or US-10138917-\$ or US-4019298-\$).did. or (US-3589755-\$ or US-5433416-\$ or US-D329192-\$ or US-5026016-\$ or US-9683696-\$ or US-8544805-\$ or US-8215605-\$ or US-7261264-\$ or US-4747570-\$ or US-D380219-\$).did.	US-PGPUB; USPAT	OR	ON	2021/03/08 23:29
S171	17	("10758065" "20050242144" "20080296443" "20090127146" "20120074158" "20190168376" "3514170" "3743372" "4805859" "5282554" "5628443" "5653366" "5775046" "5890613" "5957421" "8448829").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/08 23:29
S172	33	S170 not S171	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/08 23:29
S173	76	(US-0014949-\$ US-0025706-\$ US-0029543-\$ US-0031975-\$ US-0039831-\$ US-0069832-\$ US-0080432-\$ US-0094392-\$ US-0123478-\$ US-0139777-\$ US-0151427-\$ US-0152944-\$ US-0223585-\$ US-0224528-\$ US-0229889-\$ US-0346819-\$ US-1084360-\$ US-10603783-\$ US-10703534-\$ US-10750833-\$ US-10793172-\$ US-10829269-\$ US-10933501-\$ US-10981696-\$ US-20030094392-\$ US-20100224528-\$ US-20110139777-\$ US-20120080432-\$ US-20120152944-\$ US-20140069832-\$ US-20140123478-\$ US-20150014949-\$ US-20150151427-\$ US-20180229889-\$ US-20200029543-\$ US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:13

		20200223585-\$ US-20200346819-\$ US-20210025706-\$ US-20210031975-\$ US-20210039831-\$ US-3424334-\$ US-3999818-\$ US-4122925-\$ US-4243279-\$ US-4673070-\$ US-5325966-\$ US-5375709-\$ US-5429235-\$ US-6082539-\$ US-6889838-\$ US-7152752-\$ US-7219969-\$ US-7690856-\$ US-8602217-\$ US-8640913-\$ US-8925752-\$ US-D285986-\$ US-D738622-\$).DID.				
S174	3	("2018/0229889").URPN.	USPAT	OR	ON	2021/09/24 22:14
S175	1	"20180127007".pn.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:26
S176	24	("2018/0127007").URPN.	USPAT	OR	ON	2021/09/24 22:26
S177	21	("2696962" "4929973" "5035389" "5040712" "5129613" "5282554" "5332183" "5356105" "5653366" "5730348" "5730406" "6036071" "6315182" "7225958" "8020821").PN. OR ("8448829").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:28
S178	8	("20090256040" "20140110546" "20150102191" "4733330" "5740995" "8448829" "9581416" "9810911").PN. OR ("10487978").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:28
S179	1	("2015/0102191").URPN.	USPAT	OR	ON	2021/09/24 22:29
S180	45	("1252207" "20060186290" "20070097617" "20070170336" "20070230102" "20080105803" "2174140" "5730406" "5833189" "5850996" "6173931" "6315255" "6371424" "6431510" "6702604" "6758454" "6877641" "7261264" "7334762" "7455271" "7499272" "7673838").PN. OR ("8020821").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:29
S181	5	("2008/0105803").URPN.	USPAT	OR	ON	2021/09/24 22:30
S182	642	G06F1/18.cpc.	USPAT	OR	ON	2021/09/24 22:30
S183	1,229	G06F1/18.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:31

S184	9,466	F16M13/02.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:31
S185	1,607	Y10S248/917.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:31
S186	59	("4088848" "4419794" "5026016" "5035389" "5054170" "5375749" "5428866" "5567038" "5593121" "5604958" "5622296" "5729869").PN. OR ("5957421").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:32
S187	67	("1519380" "20020170933" "2543313" "3261519" "3370236" "3743147" "3878589" "4419794" "4479596" "4598027" "4676420" "4718586" "4754528" "4819847" "4858798" "4929116" "5014892" "5016326" "5025966" "5054170" "5201858" "5213240" "5230159" "5253292" "5480115" "5528770" "5577303" "5584423" "5597102" "5622296" "5664292" "5730342" "5850954" "5850996" "5898647" "5957421" "5995622" "5996184" "6098858" "6141417" "6176401" "6283348" "6364184" "6443340" "6722539" "6824028" "6955279" "6955280" "7070049" "D443199").PN. OR ("8499986").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:33
S188	32	("20030000976" "4083481" "4598027" "5025966" "5213240" "5347693" "5730342" "5791019" "5829102" "6283348" "6286737").PN. OR ("6824028").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:34
S189	43	("20010054217" "20020158096" "20020170148" "20030000976" "20030047575" "20030141329" "20030162510" "20040204169" "5274885" "5597102" "5730342" "5779115" "5833100" "5850954" "5850996" "5927580" "6006969" "6205222" "6223788" "6283348" "6286737" "6443340" "6714767" "6736136" "6824028" "6955279" "6955280" "D478418" "D492108").PN. OR ("7032791").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:36
S190	28	("20020010983" "20030047575" "20070056999" "20070125819"	US- PGPUB;	OR	ON	2021/09/24 22:37

		"20080277546" "20080283701" "4419794" "5729869" "5743451" "5850996" "6062449" "6443342" "6454147" "6641011" "6655560" "6848605" "6880794" "7032791" "7959121" "RE38035").PN. OR ("9072364").URPN.	USPAT; USOCR			
S191	90	("4419794" "4897900" "5014892" "5054170" "5375749" "5584423" "5597102").PN. OR ("5850996").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:38
S192	9	("10165851" "10222172" "10271634" "5850996" "6098858" "6286737" "6786372" "8613564" "8919623").PN. OR ("11047644").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:39
S193	10	("20080216380" "20090013580" "20090293334" "20100176174" "5730342" "5850996" "6371424" "7458489" "8166694").PN. OR ("10222172").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:40
S194	108	("3631572" "4624034" "5274885" "5375749" "5620120" "5622296").PN. OR ("5730342").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:41
S195	9	("20020005421" "20020158096" "20030122002" "20070107169" "5730342" "5839173" "5850954" "5919623").PN. OR ("10124848").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:46
S196	33	("20020195472" "20080209698" "20100071168" "20110076095" "20110083353" "20120030986" "20120174286" "5201858" "5642847" "5669170" "5673836" "5718363" "5730342" "5850996" "5991925" "6266910" "6325258" "6363532" "6517133" "6736136" "6824028" "7841496" "8166694" "D562549" "D577093").PN. OR ("8613564").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:49
S197	6	("2010/0071168").URPN.	USPAT	OR	ON	2021/09/24 22:51
S198	10	("20030042279" "20060246963" "20100071168" "6736136" "8613564" "8919622").PN. OR ("9101198").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:52
S199	2	("2006/0246963").URPN.	USPAT	OR	ON	2021/09/24 22:52
S200	32	("20100294816" "20140027477" "20140042195" "3956701" "4419794" "5014892" "5054170" "5375749" "5584423" "5593121" "5604958"	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:54

		"5620120" "5641102" "5850996" "6006969" "6098858" "6286737" "6786372" "7409237" "7959121" "7980435" "8231094" "8613564").PN. OR ("8919622").URPN.				
S201	40	("4419794" "4485946" "5054170" "5081709" "5261122" "5540368").PN. OR ("5584423").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:56
S202	22	("4356943" "4881150" "5540368" "5584423" "5996184" "6038742" "6149043").PN. OR ("6438808").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:01
S203	14	("20040003809" "20040079365" "20050097709" "20050274380" "20100031481" "20120036682" "5730342" "5906031" "6318610" "6438808" "6736136" "7222621" "8156616" "8806726").PN. OR ("9233742").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:02
S204	19	("2326558" "3984191" "4419794" "5347693" "5622296" "5839173").PN. OR ("6038742").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:04
S205	79	("1519380" "2502034" "3631572" "4419794" "5026016" "5054170" "5201858" "5274885" "5375749").PN. OR ("5622296").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:07
S206	58	("20050092801" "4093293" "4660793" "4720611" "4789128" "5054170" "5188325" "5201858" "5347693" "5620120" "5622296" "5850996" "6059156" "6098858" "6155524" "6189489" "6371424" "7077372").PN. OR ("7261264").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:09
S207	109	("20070170330" "20070294905" "20090044825" "20100054724" "20100132122" "3564984" "3640497" "3860209" "3908949" "3960352" "4026508" "4176815" "4400856" "4527760" "4747570" "5026016" "5375749" "5433416" "5626435" "5857713" "6119878" "6161741" "6302617" "6371424" "6409475" "6481684" "6519144" "6554238" "6637707" "6702604" "6758454" "6840639" "7066435" "7077372" "7172164" "7261264" "7270309" "7594823" "7673838" "7726706" "8215605" "8292521" "8333353"	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:11

		"D329192" "D380219" "D658972").PN. OR ("8544805").URPN.				
S208	28	("1081378" "20090256037" "3424421" "3540687" "3822049" "3927315" "3989215" "4332052" "4467990" "4613135" "5129613" "5146631" "5232191" "5251959" "5707033" "5865562" "7077372" "7134635" "8544805" "D329192").PN. OR ("9683696").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:13
S209	51	("20050092801" "20050121576" "4093293" "4660793" "4720611" "4789128" "5054170" "5188325" "5201858" "5347693" "5620120" "5622296" "5850996" "6059156" "6098858" "6155524" "6189489" "6371424").PN. OR ("7077372").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:15
S210	126	("1519380" "3743147" "3797717" "3878589" "4419794" "4587818" "4605335" "4619020" "4676420" "4718586" "4754528" "4757927" "4821934").PN. OR ("5054170").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:19
S211	141	("0690277" "1423590" "2637885" "3170209").PN. OR ("4419794").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:24
S212	40	("1284422" "1522957" "2786678" "3788642" "4133509" "4150381" "4176580" "4218058" "4348022" "4397464").PN. OR ("4613135").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:30
S213	5	("1081378").URPN.	USPAT	OR	ON	2021/09/24 23:33
S214	82	("1949114" "20020011544" "20040011938" "20040031894" "20050085123" "20050127260" "20060057887" "20060126284" "20070170330" "20070294905" "20080232044" "20110210227" "2244427" "3046843" "3960352" "4747570" "5026016" "5433416" "5812368" "5966881" "6119878" "6400560" "6409475" "6519144" "6554238" "6702604" "6758454" "6935883" "7066435" "7172164" "7225471" "7270309" "7317613" "7334762" "7390211" "7404535" "7413371" "7481407" "7594632" "7594823" "7673838" "8059399" "8083193" "D275074" "D275177" "D329192" "D380219" "D397984" "D492187"	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:34

		"D559657" "D587640" "D628607" "D635008" "D637599").PN. OR ("D658972").URPN.				
S215	30	("5224610" "5904328" "6050322" "6220461" "7066435").PN. OR ("7270309").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:38
S216	30	("5224610" "5904328" "6050322" "6220461" "7066435").PN. OR ("7270309").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:40
S217	45	("0269538" "10064523" "20020092817" "20020148795" "20030168417" "20050284991" "20060261021" "20080047913" "20080053935" "20110168857" "20150325991" "4387811" "4662524" "5080238" "5537289" "5683010" "6065613" "6089387" "6386379" "6464087" "6484747" "6520351" "6564950" "6729479" "7090085" "7270309" "7527157" "7611034" "7871581" "7959020" "9345322" "D027014" "D315840" "D367790" "D376941" "D400745" "D473084" "D564271" "D564816" "D568657" "D572061" "D572062" "D632514").PN. OR ("10849705").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:41
S218	50	("20020144962" "2779114" "3650407" "4019298" "4564732" "4595226" "4629065" "4807763" "4882862" "4936467" "5035389" "5203462" "5244300" "5356038" "5413228" "5433416" "5435511" "5664793" "5706737" "5819456" "5823360" "5871092" "5871105" "6053340" "6637707" "6932223").PN. OR ("7090085").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:43
S219	95	("0314591" "0331565" "0955260" "1601054" "20010032910" "20020166275" "20030029893" "20030226861" "20050023233" "20070056918" "20080163528" "20080164232" "20080296240" "20080301988" "20090194495" "20100270440" "20120112022" "20150154895" "20180226000" "2937759" "4009532" "4268984" "4339045" "4436267" "4460142" "4574507" "4805782" "4997997" "5020759" "5022174" "5244102" "5411144" "5419362" "5480073" "5488656" "5538144"	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:46

		"5630516" "5813546" "5921011" "5921403" "6003804" "6059215" "6079675" "6112909" "6311879" "6338213" "6547204" "6834813" "7090085" "7168577" "7455258" "7665616" "7828254" "8529184" "9161644" "9649547" "D037306" "D184994" "D207246" "D240486" "D322746" "D329194" "D351552" "D462254" "D462603" "D554979" "D561009" "D571190" "D600067" "D629671" "D639147" "D646555" "D724934" "D735560" "D763665" "D764259" "D785380" "D793209" "D798131" "D807733" "D808776" "D813649").PN. OR ("10264896").URPN.				
S220	17	("3724085" "4018339" "4228982" "4283038" "4597554" "4712761" "5303895" "5584462" "5791625" "5802729" "6286802" "6637707" "7090085").PN. OR ("7293754").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:48
S221	61	("4132380" "4307864" "4524938" "4974798").PN. OR ("5035389").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:51
S222	20	("1446036" "3881677" "5035389" "5226625" "5282554" "5294012" "5356105" "6637707" "6824114").PN. OR ("7837165").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:54
S223	13	("20050139745" "4660793" "5035389" "5433416" "5452874" "5608603" "5924790" "6237886" "6520463" "6637707").PN. OR ("7490800").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:56
S224	34	("0495537" "0541864" "4632348" "4679709" "4948085" "5035389" "5060898" "5226625").PN. OR ("5356105").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:59
S225	53	("1794700" "20050077385" "20050178941" "20050224539" "20060081749" "20060086876" "20060231717" "20070045492" "20070108213" "20080142674" "20080283556" "20100176261" "2427335" "2605021" "2754991" "3212660" "3224644" "4088250" "4579309" "4679709" "5145139" "5226625" "5326006" "5356105" "5406816" "5480115" "5492238" "5494250" "5549074" "5669329" "5813644" "5934222" "5947322" "5992698"	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/25 00:00

		"6095470" "6318687" "6321943" "6427958" "6557206" "6572063" "6983918" "7234673" "D394933").PN. OR ("8833596").URPN.				
S226	21	("1840138" "1894146" "2897928" "2939613" "3389883").PN. OR ("4132380").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/25 00:23
S227	21	("1840138" "1894146" "2897928" "2939613" "3389883").PN. OR ("4132380").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/25 00:24
S228	27	("2680000" "3608127" "3685852" "3935613" "3987875" "4422212" "4589530" "4817237").PN. OR ("5428866").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 14:55
S229	19	("3423786" "3685852" "4731903").PN. OR ("4817237").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 14:57
S230	27	("1709972" "2782045" "2790196" "3608127").PN. OR ("3935613").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 14:58
S231	27	("1709972" "2782045" "2790196" "3608127").PN. OR ("3935613").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:00
S232	7	("1709972").URPN.	USPAT	OR	ON	2021/09/26 15:01
S233	356	16/30.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:15
S234	187	A45C5/143.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:15
S235	2,457	B60B33/0002.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:15
S236	1,559	B62B5/0083.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:16

S237	569	B62B2202/24,10.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:16
S238	419	Y10T16/191.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:16
S240	1,147	248/222.11,223.41.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:20
S241	8	("2005/0103959").URPN.	USPAT	OR	ON	2021/09/26 15:22
S242	13	("20050085123" "20050103959" "20050127017" "20120104200" "20120125873" "20130182381" "4176580" "4620736" "5026016" "5244300" "6109461" "6481679" "7172164").PN. OR ("11071384").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:23
S243	30	("4957264" "6491268" "6585212" "6621704" "6817587" "6896046" "7032872" "7544889" "7551458").PN. OR ("8201788").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:26
S244	44	("2680000" "2897928" "3631572" "3881677" "4346868" "4618081" "4948085" "5181774").PN. OR ("5332183").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:33
S245	1,649	248/222.13,187.1,223.41.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:34
S246	741	16/29,257.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:46
S247	1,201	190/18A.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 15:46
S249	0	248/187.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:27
S250	75	"4929973"	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:28

S251	1	("4929973").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/26 16:28
S252	887	248/177.1,187.1.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:28
S253	729	396/419.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:28
S254	0	F16M11/-041	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:29
S255	0	F16M11/0041.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:29
S256	5,360	F16M13/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:29
S257	916	F16M2200/028.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:30
S258	13	("4430771" "4731903" "4817237" "4839940" "5054164").PN. OR ("5343595").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 16:39
S259	21	("3423786").URPN.	USPAT	OR	ON	2021/09/26 16:40
S260	4	((("2621361") or ("0546909"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/26 16:41
S261	7	("1709972").URPN.	USPAT	OR	ON	2021/09/26 16:43
S262	11	("2005/0015928").URPN.	USPAT	OR	ON	2021/09/26 17:13
S263	56	("2262287" "2696962" "3349443" "3388884" "3495896" "3692266" "4077597" "4217710").PN. OR ("4340199").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 17:19

S264	8	("2127230").URPN.	USPAT	OR	ON	2021/09/26 17:24
S265	104	(US-20190225371-\$ or US-20180290288-\$ or US-20170138382-\$ or US-20180127007-\$ or US-20150102191-\$ or US-20080105803-\$ or US-20020170933-\$ or US-20100071168-\$ or US-20060246963-\$ or US-20050092801-\$ or US-20100176261-\$ or US-20050103959-\$ or US-20050015928-\$).did. or (US-D898320-\$ or US-D753982-\$ or US-6637707-\$ or US-5433416-\$ or US-8448829-\$ or US-10487978-\$ or US-8020821-\$ or US-9404615-\$ or US-5957421-\$ or US-8499986-\$ or US-6824028-\$ or US-10683963-\$ or US-7032791-\$ or US-5850996-\$ or US-11047644-\$ or US-10222172-\$ or US-6371424-\$ or US-5730342-\$ or US-10124848-\$ or US-5850954-\$ or US-8613564-\$ or US-9101198-\$ or US-8919622-\$ or US-6098858-\$ or US-5593121-\$ or US-5584423-\$).did. or (US-6438808-\$ or US-D927956-\$ or US-9233742-\$ or US-6038742-\$ or US-5839173-\$ or US-5622296-\$ or US-7261264-\$ or US-10568393-\$ or US-8544805-\$ or US-9683696-\$ or US-7077372-\$ or US-10835060-\$ or US-9765806-\$ or US-8011071-\$ or US-5054170-\$ or US-D700502-\$ or US-D438536-\$ or US-5577303-\$ or US-4613135-\$ or US-5386961-\$ or US-4176580-\$ or US-1081378-\$ or US-D658972-\$ or US-D559657-\$ or US-7270309-\$ or US-10849705-\$ or US-7090085-\$).did. or (US-5080238-\$ or US-10264896-\$ or US-5664793-\$ or US-5356038-\$ or US-5035389-\$ or US-7490800-\$ or US-5356105-\$ or US-8833596-\$ or US-5934222-\$ or US-5226625-\$ or US-6481679-\$ or US-0495537-\$ or US-4132380-\$ or US-5022174-\$ or US-4929973-\$ or US-7172164-\$ or US-5664292-\$ or US-5428866-\$ or US-6988846-\$ or US-4817237-\$ or US-3935613-\$ or US-1709972-\$ or US-11071384-\$ or US-4620736-\$ or US-5026016-\$ or US-8201788-\$ or US-9653050-\$).did. or (US-7802766-\$ or US-6082688-\$ or US-5687942-\$ or US-5332183-\$ or US-5343595-\$ or US-3989128-\$ or US-4340199-\$ or US-2124541-\$).did. or (US-2939613-\$ or US-3423786-\$ or US-1709972-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 17:41
S266	457	Y10T16/5357.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 17:45

S267	104	(US-20190225371-\$ or US-20180290288-\$ or US-20170138382-\$ or US-20180127007-\$ or US-20150102191-\$ or US-20080105803-\$ or US-20020170933-\$ or US-20100071168-\$ or US-20060246963-\$ or US-20050092801-\$ or US-20100176261-\$ or US-20050103959-\$ or US-20050015928-\$).did. or (US-D898320-\$ or US-D753982-\$ or US-6637707-\$ or US-5433416-\$ or US-8448829-\$ or US-10487978-\$ or US-8020821-\$ or US-9404615-\$ or US-5957421-\$ or US-8499986-\$ or US-6824028-\$ or US-10683963-\$ or US-7032791-\$ or US-5850996-\$ or US-11047644-\$ or US-10222172-\$ or US-6371424-\$ or US-5730342-\$ or US-10124848-\$ or US-5850954-\$ or US-8613564-\$ or US-9101198-\$ or US-8919622-\$ or US-6098858-\$ or US-5593121-\$ or US-5584423-\$).did. or (US-6438808-\$ or US-D927956-\$ or US-9233742-\$ or US-6038742-\$ or US-5839173-\$ or US-5622296-\$ or US-7261264-\$ or US-10568393-\$ or US-8544805-\$ or US-9683696-\$ or US-7077372-\$ or US-10835060-\$ or US-9765806-\$ or US-8011071-\$ or US-5054170-\$ or US-D700502-\$ or US-D438536-\$ or US-5577303-\$ or US-4613135-\$ or US-5386961-\$ or US-4176580-\$ or US-1081378-\$ or US-D658972-\$ or US-D559657-\$ or US-7270309-\$ or US-10849705-\$ or US-7090085-\$).did. or (US-5080238-\$ or US-10264896-\$ or US-5664793-\$ or US-5356038-\$ or US-5035389-\$ or US-7490800-\$ or US-5356105-\$ or US-8833596-\$ or US-5934222-\$ or US-5226625-\$ or US-6481679-\$ or US-0495537-\$ or US-4132380-\$ or US-5022174-\$ or US-4929973-\$ or US-7172164-\$ or US-5664292-\$ or US-5428866-\$ or US-6988846-\$ or US-4817237-\$ or US-3935613-\$ or US-1709972-\$ or US-11071384-\$ or US-4620736-\$ or US-5026016-\$ or US-8201788-\$ or US-9653050-\$).did. or (US-7802766-\$ or US-6082688-\$ or US-5687942-\$ or US-5332183-\$ or US-5343595-\$ or US-3989128-\$ or US-4340199-\$ or US-2124541-\$).did. or (US-2939613-\$ or US-3423786-\$ or US-1709972-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:20
S268	2	((("3935613") or ("5664292"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/26 20:20
S269	24	(US-20190225371-\$ or US-20180127007-\$ or US-20100176261-\$ or US-20050015928-\$).did. or (US-5664292-\$ or US-3935613-\$ or	US-PGPUB;	OR	ON	2021/09/26 20:25

		US-D898320-\$ or US-10222172-\$ or US-7090085-\$ or US-7077372-\$ or US-6371424-\$ or US-6098858-\$ or US-5957421-\$ or US-5850996-\$ or US-5622296-\$ or US-5356105-\$ or US-5356038-\$ or US-4929973-\$ or US-4817237-\$ or US-2124541-\$ or US-1081378-\$ or US-0495537-\$).did. or (US-3423786-\$ or US-2939613-\$).did.	USPAT; USOCR			
S270	430	(US-20200299027-\$ or US-20200243925-\$ or US-20180186513-\$ or US-20180099405-\$ or US-20160221177-\$ or US-20150034515-\$ or US-20120292213-\$ or US-20030094393-\$ or US-20020125072-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$ or US-20170138382-\$ or US-20170121056-\$ or US-20160168880-\$ or US-20160144500-\$ or US-20160130034-\$ or US-20160023349-\$ or US-20150376917-\$ or US-20150274362-\$ or US-20140166516-\$).did. or (US-20140161518-\$ or US-20140076759-\$ or US-20130223971-\$ or US-20130154218-\$ or US-20130127129-\$ or US-20130121783-\$ or US-20130068903-\$ or US-20130031732-\$ or US-20130031731-\$ or US-20130024468-\$ or US-20120326406-\$ or US-20120207571-\$ or US-20120180250-\$ or US-20120160886-\$ or US-20110220531-\$ or US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$).did. or (US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$ or US-20060254946-\$ or US-20060186624-\$ or US-20060119060-\$ or US-20060038367-\$ or US-20060027475-\$ or US-20060006770-\$ or US-20050139745-\$ or US-20050104308-\$ or US-20050062244-\$ or US-20040206656-\$ or US-20040195793-\$ or US-20040103494-\$).did. or (US-20030205877-\$ or US-20030184034-\$ or US-20030146589-\$ or US-20030115715-\$ or US-20020171228-\$ or US-20020000440-\$ or US-	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:25

	20200165036-\$ or US-20200147781-\$ or US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20180161975-\$ or US-20180153312-\$ or US-20180044059-\$ or US-20170349013-\$).did. or (US-D895375-\$ or US-D892565-\$ or US-D891875-\$ or US-D891195-\$ or US-D891193-\$ or US-D888503-\$ or US-D888422-\$ or US-D887788-\$ or US-D883752-\$ or US-D880951-\$ or US-D880252-\$ or US-10583962-\$ or US-D873085-\$ or US-D857387-\$ or US-D845081-\$ or US-D845080-\$ or US-D839681-\$ or US-D836995-\$ or US-D831352-\$ or US-10106180-\$ or US-D806483-\$ or US-D803631-\$ or US-9725209-\$ or US-D784089-\$ or US-D777426-\$ or US-9506489-\$).did. or (US-D753396-\$ or US-D738105-\$ or US-D649350-\$ or US-D536580-\$ or US-D527225-\$ or US-6305498-\$ or US-D420860-\$ or US-D415393-\$ or US-D361511-\$ or US-D352208-\$ or US-D340167-\$ or US-D326815-\$ or US-D325324-\$ or US-5098235-\$ or US-D319016-\$ or US-4971201-\$ or US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$).did. or (US-10434638-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$).did. or (US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$).did. or (US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$				
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	or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$).did. or (US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$ or US-D871013-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-9750543-\$ or US-9701443-\$ or US-9643629-\$ or US-9616562-\$ or US-9566990-\$ or US-9511491-\$ or US-9132543-\$).did. or (US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$ or US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-7147243-\$ or US-7066475-\$).did. or (US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$ or US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-5988473-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-5429260-\$ or US-5301829-\$ or US-5240264-\$).did. or (US-5105947-\$ or US-5035445-\$ or US-4168076-\$ or US-3974898-\$ or US-3506321-\$ or US-3117692-\$).did. or (US-D232798-\$ or US-3225865-\$ or US-0299027-\$ or US-0292213-\$ or US-0243925-\$ or US-0221177-\$ or US-0186513-\$ or US-0125072-\$ or US-0099405-\$ or US-0094393-\$ or US-0034515-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0290288-\$			
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		or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$).did. or (US-0257958-\$ or US-0254946-\$ or US-0239808-\$ or US-0236482-\$ or US-0225371-\$ or US-0223971-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0184034-\$ or US-0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$).did. or (US-0165036-\$ or US-0161975-\$ or US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$).did. or (US-0115312-\$ or US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US-0002004-\$ or US-0000440-\$).did. or (US-3506321-\$ or US-3117692-\$).did.				
S271	16	(US-20190168376-\$ or US-20120074158-\$ or US-20090127146-\$ or US-20080296443-\$ or US-20050242144-\$).did. or (US-10758065-\$ or US-8448829-\$ or US-5957421-\$ or US-5890613-\$ or US-5775046-\$ or US-5653366-\$ or US-5282554-\$ or US-4805859-\$ or US-3743372-\$ or US-3514170-\$ or US-5628443-\$).did.	US-PGPUB; USPAT	OR	ON	2021/09/26 20:25
S272	7	(US-20190225371-\$ or US-20180290288-\$ or US-20170138382-\$).did. or (US-D898320-\$ or US-D753982-\$ or US-6637707-\$ or US-5433416-\$).did.	US-PGPUB; USPAT	OR	ON	2021/09/26 20:25
S273	430	(US-20200299027-\$ or US-20200243925-\$ or US-20200165036-\$ or US-20200147781-\$ or	US-PGPUB;	OR	ON	2021/09/26 20:26

	US-20200055534-\$ or US-20190225371-\$ or US-20190106244-\$ or US-20190039781-\$ or US-20190031222-\$ or US-20190002004-\$ or US-20180290288-\$ or US-20180220758-\$ or US-20180186513-\$ or US-20180161975-\$ or US-20180153312-\$ or US-20180099405-\$ or US-20180044059-\$ or US-20170349013-\$ or US-20170318927-\$ or US-20170266804-\$ or US-20170257958-\$ or US-20170239808-\$ or US-20170217464-\$ or US-20170174392-\$ or US-20170166352-\$ or US-20170165828-\$).did. or (US-20170138382-\$ or US- 20170121056-\$ or US-20160221177-\$ or US- 20160168880-\$ or US-20160144500-\$ or US- 20160130034-\$ or US-20160023349-\$ or US- 20150376917-\$ or US-20150274362-\$ or US- 20150034515-\$ or US-20140166516-\$ or US- 20140161518-\$ or US-20140076759-\$ or US- 20130223971-\$ or US-20130154218-\$ or US- 20130127129-\$ or US-20130121783-\$ or US- 20130068903-\$ or US-20130031732-\$ or US- 20130031731-\$ or US-20130024468-\$ or US- 20120326406-\$ or US-20120292213-\$ or US- 20120207571-\$ or US-20120180250-\$ or US- 20120160886-\$ or US-20110220531-\$).did. or (US-20110181008-\$ or US-20110155613-\$ or US-20110139665-\$ or US-20110073516-\$ or US-20100219193-\$ or US-20100147642-\$ or US-20100139566-\$ or US-20100052276-\$ or US-20090236482-\$ or US-20090178946-\$ or US-20090145913-\$ or US-20090145866-\$ or US-20090145790-\$ or US-20090071990-\$ or US-20090026901-\$ or US-20080308369-\$ or US-20080277221-\$ or US-20080271280-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080121547-\$ or US-20080115312-\$ or US-20080104921-\$ or US-20070194543-\$ or US-20070145700-\$ or US-20070090616-\$ or US-20070068757-\$).did. or (US- 20060254946-\$ or US-20060186624-\$ or US- 20060119060-\$ or US-20060038367-\$ or US- 20060027475-\$ or US-20060006770-\$ or US- 20050139745-\$ or US-20050104308-\$ or US- 20050062244-\$ or US-20040206656-\$ or US- 20040195793-\$ or US-20040103494-\$ or US- 20030205877-\$ or US-20030184034-\$ or US- 20030146589-\$ or US-20030115715-\$ or US- 20030094393-\$ or US-20020171228-\$ or US- 20020125072-\$ or US-20020000440-\$).did. or (US-D895375-\$ or US-D892565-\$ or US- D891875-\$ or US-D891195-\$ or US-D891193-\$ or US-D888503-\$ or US-D888422-\$ or US- D887788-\$ or US-D883752-\$ or US-D880951-	USPAT; USOCR			
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	\$ or US-D880252-\$ or US-10583962-\$ or US-D873085-\$ or US-D871013-\$ or US-10434638-\$ or US-D857387-\$ or US-D845081-\$ or US-D845080-\$ or US-D839681-\$ or US-D836995-\$ or US-D831352-\$ or US-10106180-\$ or US-D815831-\$ or US-D814187-\$ or US-9872562-\$ or US-D806483-\$).did. or (US-D803631-\$ or US-9750543-\$ or US-9725209-\$ or US-9701443-\$ or US-9643629-\$ or US-D784089-\$ or US-9616562-\$ or US-9566990-\$ or US-D777426-\$ or US-9511491-\$ or US-9506489-\$ or US-D753396-\$ or US-9132543-\$ or US-D738105-\$ or US-8985922-\$ or US-8979100-\$ or US-8875888-\$ or US-8813960-\$ or US-8714355-\$ or US-8689396-\$ or US-D701696-\$ or US-8677661-\$ or US-8567796-\$ or US-8505729-\$ or US-8459495-\$ or US-8454033-\$ or US-D661858-\$).did. or (US-8191910-\$ or US-8177463-\$ or US-8132819-\$ or US-D649350-\$ or US-8028845-\$ or US-7841144-\$ or US-7780026-\$ or US-7779764-\$ or US-7658887-\$ or US-7503569-\$ or US-7367571-\$ or US-7263742-\$ or US-7212840-\$ or US-D536580-\$ or US-7147243-\$ or US-D527225-\$ or US-7066475-\$ or US-7044484-\$ or US-6983946-\$ or US-6948691-\$ or US-6945546-\$ or US-6641013-\$ or US-6637707-\$ or US-6619772-\$ or US-6601930-\$ or US-6547347-\$ or US-6431580-\$).did. or (US-6371320-\$ or US-6367631-\$ or US-6347847-\$ or US-6305498-\$ or US-6176559-\$ or US-6109627-\$ or US-6085925-\$ or US-6050660-\$ or US-D420860-\$ or US-5988473-\$ or US-D415393-\$ or US-5951037-\$ or US-5797617-\$ or US-5628443-\$ or US-5608603-\$ or US-5595228-\$ or US-5538213-\$ or US-D361511-\$ or US-5429260-\$ or US-D352208-\$ or US-5301829-\$ or US-D340167-\$ or US-5240264-\$ or US-D326815-\$ or US-5105947-\$ or US-D325324-\$ or US-5098235-\$).did. or (US-D319016-\$ or US-5035445-\$ or US-4971201-\$ or US-4168076-\$ or US-3974898-\$ or US-D232798-\$ or US-3506321-\$ or US-3225865-\$ or US-3117692-\$ or US-2970358-\$ or US-2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US-0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0299027-\$ or US-0292213-\$ or US-0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US-0266804-\$ or US-0257958-\$).did. or (US-0254946-\$ or US-0243925-\$ or US-0239808-\$ or US-0236482-\$ or US-				
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	0225371-\$ or US-0223971-\$ or US-0221177-\$ or US-0220758-\$ or US-0220531-\$ or US- 0219193-\$ or US-0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US- 0195793-\$ or US-0194543-\$ or US-0186624-\$ or US-0186513-\$ or US-0184034-\$ or US- 0181008-\$ or US-0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US- 0169739-\$ or US-0168880-\$ or US-0166516-\$).did. or (US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$ or US- 0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US- 0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US- 0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US- 0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US- 0125072-\$ or US-0121783-\$ or US-0121547-\$).did. or (US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$ or US- 0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0099405-\$ or US- 0094393-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US- 0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US- 0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0034515-\$ or US-0031732-\$ or US- 0031731-\$ or US-0031222-\$ or US-0027475-\$).did. or (US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$ or US- 0002004-\$ or US-0000440-\$).did. or (US- D232798-\$ or US-3506321-\$ or US-3225865-\$ or US-3117692-\$ or US-2970358-\$ or US- 2430200-\$ or US-2042387-\$ or US-0376917-\$ or US-0349013-\$ or US-0326406-\$ or US- 0320243-\$ or US-0318927-\$ or US-0308369-\$ or US-0299027-\$ or US-0292213-\$ or US- 0290288-\$ or US-0277221-\$ or US-0274362-\$ or US-0271616-\$ or US-0271280-\$ or US- 0266804-\$ or US-0257958-\$ or US-0254946-\$ or US-0243925-\$ or US-0239808-\$ or US- 0236482-\$).did. or (US-0225371-\$ or US- 0223971-\$ or US-0221177-\$ or US-0220758-\$ or US-0220531-\$ or US-0219193-\$ or US- 0217464-\$ or US-0207571-\$ or US-0206656-\$ or US-0205877-\$ or US-0195793-\$ or US- 0194543-\$ or US-0186624-\$ or US-0186513-\$ or US-0184034-\$ or US-0181008-\$ or US- 0180250-\$ or US-0178946-\$ or US-0174392-\$ or US-0171228-\$ or US-0169739-\$ or US-			
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		0168880-\$ or US-0166516-\$ or US-0166352-\$ or US-0165828-\$ or US-0165036-\$ or US-0161975-\$).did. or (US-0161518-\$ or US-0160886-\$ or US-0155613-\$ or US-0154218-\$ or US-0153312-\$ or US-0147781-\$ or US-0147642-\$ or US-0146589-\$ or US-0145913-\$ or US-0145866-\$ or US-0145790-\$ or US-0145700-\$ or US-0144500-\$ or US-0139745-\$ or US-0139665-\$ or US-0139566-\$ or US-0138382-\$ or US-0134607-\$ or US-0130034-\$ or US-0127129-\$ or US-0125072-\$ or US-0121783-\$ or US-0121547-\$ or US-0121056-\$ or US-0119060-\$ or US-0115715-\$ or US-0115312-\$).did. or (US-0106244-\$ or US-0104921-\$ or US-0104308-\$ or US-0103494-\$ or US-0099405-\$ or US-0094393-\$ or US-0090616-\$ or US-0076759-\$ or US-0073516-\$ or US-0071990-\$ or US-0068903-\$ or US-0068757-\$ or US-0062244-\$ or US-0055534-\$ or US-0052276-\$ or US-0044059-\$ or US-0039781-\$ or US-0038367-\$ or US-0034515-\$ or US-0031732-\$ or US-0031731-\$ or US-0031222-\$ or US-0027475-\$ or US-0026901-\$ or US-0024468-\$ or US-0023349-\$ or US-0006770-\$).did. or (US-0002004-\$ or US-0000440-\$).did.				
S274	22	S269 not (S270 S271 S273)	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:27
S275	7	(US-0076261-\$ US-11008136-\$ US-20060076261-\$ US-6082687-\$ US-7172164-\$ US-7837165-\$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:32
S276	42	(US-0001482-\$ US-0025706-\$ US-0060953-\$ US-0094392-\$ US-0151427-\$ US-0155373-\$ US-0187725-\$ US-0213934-\$ US-0267368-\$ US-0310842-\$ US-10933501-\$ US-10962218-\$ US-10981696-\$ US-11059631-\$ US-20030094392-\$ US-20080060953-\$ US-20150151427-\$ US-20150310842-\$ US-20180213934-\$ US-20190001482-\$ US-20210025706-\$ US-20210155373-\$ US-20210187725-\$ US-20210267368-\$ US-3424334-\$ US-7152752-\$ US-8851282-\$ US-9551367-\$ US-9888752-\$ US-D917977-\$ US-D923935-\$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/29 23:18
S277	570	220/4.27.ccls.	US-PGPUB;	OR	ON	2022/02/01 21:58

			USPAT; USOCR			
S278	442	B65D21/0223.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S279	2,373	A45C5/14.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S280	111	A45C7/005.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S281	3,616	A45C13/02.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S282	476	A45F3/10.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S283	993	B25H1/04.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S284	1,281	B25H3/02.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S285	223	B25H3/021.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:58
S286	1,197	B62B1/14.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S287	826	B65D21/0209,0228.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S288	408	A45C7/0045.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59

S289	493	B25H3/023.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S290	1,065	B62B5/067.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S291	59	B65D2255/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S292	222	B65H2701/533.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 21:59
S293	1,280	((("MILWAUKEE") near3 ("ELECTRIC") near3 ("TOOL") near3 ("CORPORATION"))).AS,AANM.	USPAT	OR	ON	2022/02/01 22:00
S294	100	((("Brunner") near3 ("Yaron"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:00
S295	90	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:00
S296	124	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:00
S297	214	((("Hyma") near3 ("Steven") near3 ("W"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:00
S298	42	("10088148" "10106180" "10144124" "10663124" "10663150" "20020179472" "20050232747" "20100085745" "20100220486" "20130048631" "20130051080" "20130058711" "20130134276" "20130155657" "20130186795" "20140332423" "20150078811" "20170151972" "20170257958" "20180231238" "20190113464" "4976450" "5685421" "5779350" "5879072" "6223899" "6267240" "6981780" "7252404" "7470036" "7484858" "8567796" "8936258" "9132543" "9221169"	US-PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:10

		"9381639" "9381640" "9492919" "9566704" "9566990" "9643629").PN. OR ("10962218").URPN.				
S299	187	("10434638" "20020000440" "20020171228" "20030115715" "20030146589" "20030184034" "20030205877" "20040103494" "20040195793" "20040206656" "20050062244" "20050104308" "20050139745" "20060006770" "20060027475" "20060038367" "20060119060" "20060186624" "20060254946" "20070068757" "20070090616" "20070145700" "20070194543" "20080104921" "20080115312" "20080121547" "20080134607" "20080169739" "20080271280" "20080277221" "20080308369" "20090026901" "20090071990" "20090145790" "20090145866" "20090145913" "20090178946" "20100052276" "20100139566" "20100147642" "20100219193" "20110073516" "20110139665" "20110155613" "20110181008" "20110220531" "20120160886" "20120180250" "20120207571" "20120326406" "20130024468" "20130031731" "20130031732" "20130121783" "20130127129" "20130154218" "20130223971" "20140076759" "20140161518" "20140166516" "20150274362" "20150376917" "20160023349" "20160130034" "20160144500" "20160168880" "20170121056" "20170138382" "20170165828" "20170166352" "20170174392" "20170217464" "20170239808" "20170257958" "20170266804" "20170318927" "20170349013" "20180044059" "20180161975" "20180220758" "20180290288" "20190002004" "20190031222" "20190039781" "20190106244" "20190225371" "20200055534" "2042387" "2430200" "2970358" "3117692" "3506321" "3974898" "4168076" "5035445" "5105947").PN. OR ("5240264" "5301829" "5429260" "5595228" "5608603" "5628443" "5797617" "5951037"	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:12

		"5988473" "6050660" "6085925" "6109627" "6176559" "6347847" "6367631" "6371320" "6431580" "6547347" "6601930" "6619772" "6637707" "6641013" "6945546" "6948691" "6983946" "7044484" "7066475" "7147243" "7263742" "7367571" "7503569" "7658887" "7779764" "7780026" "7841144" "8028845" "8132819" "8177463" "8191910" "8454033" "8459495" "8505729" "8567796" "8677661" "8689396" "8714355" "8813960" "8875888" "8979100" "8985922" "9132543" "9506489" "9511491" "9566990" "9616562" "9643629" "9701443" "9872562" "D395533" "D437669" "D456972" "D525789" "D630851" "D653832" "D661858" "D663952" "D664354" "D674605" "D701696" "D738106" "D753394" "D753395" "D765974" "D770179" "D790221" "D814187" "D816334" "D826510" "D828671" "D833744" "D837515" "D871013").PN. OR ("D898320").URPN.				
S300	118	("2708088" "3878589" "3915189" "3931893" "4450989" "4461445" "4858869" "5026016" "5035389" "5078279" "5344032" "5356038" "5433416" "5435511" "5452874" "5765699" "5915572" "D329192" "D386298" "D386304").PN. OR ("6637707").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:15
S301	62	("4132380" "4307864" "4524938" "4974798").PN. OR ("5035389").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:17
S302	35	("0495537" "0541864" "4632348" "4679709" "4948085" "5035389" "5060898" "5226625").PN. OR ("5356105").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:18
S303	21	("1840138" "1894146" "2897928" "2939613" "3389883").PN. OR ("4132380").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:20
S304	13	("2897928").URPN.	USPAT	OR	ON	2022/02/01 22:21
S305	8	((("1069693") or ("1246749") or ("2369336") or ("2454681")).PN.	US- PGPUB;	OR	OFF	2022/02/01 22:22

			USPAT; USOCR			
S306	29	("4631783" "4634005" "5044591" "5082111" "5762211" "5816401" "5906350" "5967340" "5988381" "5996817").PN. OR ("6202865").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:49
S307	26	("20110011813" "20110187248" "20110192810" "2965235" "3154281" "3809799" "4391376" "4405108" "4441619" "4781608" "4852747" "5109992" "5165629" "6202865" "7198158" "7424958" "7523832" "7861871" "7882965" "7931159" "7950534" "9757853").PN. OR ("10875173").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:50
S308	2,440	B25H3/04,003.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:51
S309	5,532	F16M13/022.cpc.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/01 22:52
S311	1,552	211/70.6.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 13:02
S312	7,213	method adj3 painting	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 13:13
S313	18	("4637329" "6116173" "6192814").PN. OR ("6409030").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 13:28
S314	32	("2035639" "3210091" "3298532" "3342343" "3780874" "4475660" "4947998" "5704496").PN. OR ("5881891").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 13:38
S315	52	("0944312" "2371433" "2762595" "3269550" "3452954" "3581929" "4049126" "4199070").PN. OR ("4410095").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/02 16:58
S316	3	("2021/0039831").URPN.	USPAT	OR	ON	2022/02/02 16:59
S317	29	("4631783" "4634005" "5044591" "5082111" "5762211" "5816401"	US- PGPUB;	OR	ON	2022/02/02 17:07

		"5906350" "5967340" "5988381" "5996817").PN. OR ("6202865").URPN.	USPAT; USOCR			
S318	33	("0939125" "1517309" "1766230" "3779539" "4157819" "4170345" "4199135" "4278243" "4415149").PN. OR ("4555099").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2022/02/07 21:53
S319	0	("2021/0104914").URPN.	USPAT	OR	ON	2022/02/07 21:57
S320	8	("2020/0346819").URPN.	USPAT	OR	ON	2022/02/07 21:58

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	29	"Term Removed" or "Term Removed"	US- PGPUB; USPAT	OR	ON	2022/02/08 23:00
S321	1,162	B65D21/0223,0209,0228.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:26
S322	2,308	A45C5/14.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:26
S323	107	A45C7/005.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:26
S324	3,269	A45C13/02.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:26
S325	445	A45F3/10.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:26
S326	907	B25H1/04.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:26
S328	923	B62B1/14.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:27
S329	793	B65D21/0209,0228.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:27
S330	397	A45C7/0045.cpc.	US- PGPUB; USPAT	OR	ON	2022/02/08 21:27

S331	1,647	B25H3/02,021,023.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S332	1,029	B62B5/067.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S333	59	B65D2255/00.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S334	212	B65H2701/533.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:27
S335	2,217	B25H3/04,003.cpc.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:28
S336	1,303	211/70.6.ccls.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:28
S337	253	16/30.ccls.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:28
S338	675	248/177.1,187.1.ccls.	US-PGPUB; USPAT	OR	ON	2022/02/08 21:28
S339	459	220/4.27.ccls.	US-PGPUB; USPAT	OR	OFF	2022/02/08 21:29
S340	25	("2680000" "3608127" "3685852" "3935613" "3987875" "4422212" "4589530" "4817237").PN. OR ("5428866").URPN.	US-PGPUB; USPAT	OR	ON	2022/02/08 22:09
S341	102	("2907137" "5301822" "5409560" "5512165" "8336709" "9205553" "8118162" "6811127" "20060065557" "20060070900" "4286952" "6516948" "20060234846" "8505720" "20150202767" "2371433" "4621738" "5669516" "4406368" "6595735" "20150328768" "20040140356" "6932223" "7322470" "10279467" "10335664" "20150251310" "20150252827" "5080230" "5544396" "6719155" "20040238466" "5551320" "5695165" "8181780" "9962827" "20050221664" "6237767" "10213913" "20180361564" "6827275" "10842264" "20160214254" "20180353830" "7424958" "5660276" "5743394" "6098799" "7246704" "7286059" "20060091986"	US-PGPUB; USPAT	OR	ON	2022/02/08 22:14