

		"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.				
S342	9	("7696721" "20090072029" "20080303904" "D592423" "20110233096" "20070274042" "20110006729" "5909357" "9829953").PN.	US- PGPUB; USPAT	OR	ON	2022/02/08 22:17

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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: 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	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	2,386,343	10-09-1945	Regenhardt	
	A2	3,552,817	01-05-1971	Marcolongo	
	A3	3,567,298	03-02-1971	Ambaum et al.	
	A4	3,851,936	12-03-1974	Muller	
	A5	4,564,732	01-14-1986	Lancaster et al.	
	A6	4,660,725	04-28-1987	Fishman et al.	
	A7	5,154,291	10-13-1992	Sur	
	A8	5,454,634	10-03-1995	Herbst et al.	
	A9	6,371,321	04-16-2002	Lee	
	A10	7,350,648	04-01-2008	Gerstner et al.	
	A11	8,894,160	11-25-2014	Christensen	
	A12	2004/0149754	08-05-2004	Diamant	
	A13	2006/0165482	07-27-2006	Olberding	
	A14	2007/0006542	01-11-2007	Duke	
	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UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					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		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: 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		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.

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

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:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
Total in USD (\$)				260

Electronic Acknowledgement Receipt	
EFS ID:	44932956
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:	07-FEB-2022
Filing Date:	06-OCT-2020
Time Stamp:	17:57:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$260
RAM confirmation Number	E202227H57523153
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	91540	no	3
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Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	066749-2792-SB08.pdf	121361	no	2
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Information:					
This is not an USPTO supplied IDS fillable form					
3	Fee Worksheet (SB06)	fee-info.pdf	38175	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			251076		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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(c), before the mailing date of any of a final action under 37 CFR § 1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application.

STATEMENT UNDER 37 CFR 1.97(e)

Per 37 CFR §1.97(e)(2), the undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in the 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

FEES

The IDS Fee of \$260.00 under 37 CFR 1.17(p) is being paid via Deposit Account No. 18-0882 via EFS-web.

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.

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. If any extensions of time are needed for timely acceptance of papers submitted herewith, applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Respectfully submitted,

Date February 7, 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

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 22, 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	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	
	A12	2015/0151427	06-04-2015	Ben-Gigi	
	A13	2015/0310842	10-29-2015	Coburn et al.	
	A14	2018/0213934	08-02-2018	Wolle et al.	
	A15	2019/0001482	01-03-2019	Wolle et al.	
	A16	2021/0025706	01-28-2021	Millane	
	A17	2021/0155373	05-27-2021	Cai	
	A18	2021/0187725	06-24-2021	Brunner	
	A19	2021/0267368	09-02-2021	Bruins	
	A20	D917,977	05-04-2021	Brunner et al.	
	A21	D923,935	07-06-2021	Brunner 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	T 6

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 22, 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	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		Date Considered	
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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:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
Total in USD (\$)				260

Electronic Acknowledgement Receipt	
EFS ID:	44585819
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:	22-DEC-2021
Filing Date:	06-OCT-2020
Time Stamp:	13:10:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$260
RAM confirmation Number	E2021BLD10500219
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 1.21 (Miscellaneous fees and charges) 37 CFR 1.20 (Post Issuance fees)	

37 CFR 1.19 (Document supply fees) 37 CFR 1.17 (Patent application and reexamination processing fees) 37 CFR 1.16 (National application filing, search, and examination fees)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		066749-2792_Non-Final_Office_Action_Response.pdf	172133	yes	10
			26458ac3c8bd408e421df176810ea65d3760f11		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	4	
	Applicant Arguments/Remarks Made in an Amendment		5	10	
Warnings:					
Information:					
2	Transmittal Letter	066749-2792-IDS_Transmittal.pdf	91021	no	3
			94d59496cb445f5e3ab5a5fc81f608d5fb4cb773		
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	066749-2792-SB08.pdf	134083	no	2
			3a9daa00c3e4ec321fc926a9d514d77a96d7164e		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
4	Fee Worksheet (SB06)	fee-info.pdf	38175	no	2
			2fb0f5b1c596205f547d867c35b231ffc34b4b3d		
Warnings:					
Information:					
Total Files Size (in bytes):			435412		

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 No: 4794

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

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.111

This communication is responsive to the Non-Final Office Action dated September 30, 2021, concerning the above-referenced patent application.

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

Remarks begin on page 5 of this document.

Please amend the application as follows:

Amendments to the Claims:

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

Listing of Claims:

1-8. (Cancelled)

9. (Currently Amended) A coupling platform for a stackable utility module configured to engage male couplers on an adjacent utility module comprising:

a panel;

a plurality of ~~one or more~~ female couplers coupled to the panel, the plurality of female couplers each comprising a pair of locking ribs, two sidewalls and a depressed locking location, the pair of locking ribs extending above ~~a surface of~~ the depressed locking location and substantially parallel to a sliding path, wherein the male couplers of the adjacent utility module are configured to be engaged ~~below~~ ~~between~~ the pair of locking ribs ~~and the surface of the depressed locking location~~ of the ~~plurality of one or more~~ female couplers, wherein each of the female couplers comprises a back wall that extends from each of the two sidewalls and between the two sidewalls, and each of the female couplers comprises a front wall opposite the back wall that extends from each of the two sidewalls and between the two sidewalls, wherein a first rib of the pair of locking ribs extends from the back wall in a first direction towards a front of the panel coupling platform and from a first sidewall of the two sidewalls, and a second rib of the pair of locking ribs extends from the back wall and from a second sidewall of the two sidewalls;

a latch recess defined by the panel and located on the panel in front of the plurality of female couplers, the latch recess configured to receive a latch from the adjacent utility module;
and

~~comprising~~ a plurality of mounting apertures defined by the panel, the plurality of mounting apertures configured to receive a fastener to secure the panel coupling platform to a surface.

10-12. (Cancelled)

13. (Previously Presented) The coupling platform of claim 9, wherein the first rib extends a first distance from the first sidewall and the first rib extends a second distance from the back wall that is more than twice as far as the first distance.

14. (Currently Amended) The coupling platform of claim 9, ~~further comprising a~~ the panel comprising a top face from which the one or more female couplers extend, wherein the depressed locking locations of the one or more female couplers comprise at least 50% of an area of the top face.

15-20. (Cancelled)

21. (Previously Presented) The coupling platform of claim 9, wherein the one or more female couplers are arranged along a plurality of rows and a plurality of columns perpendicular to the plurality of rows, each row comprises two or more female couplers and each column comprises two or more female couplers, wherein each of the plurality of columns are parallel to the first direction.

22. (Cancelled)

23. (Previous Presented) The coupling platform of claim 9, wherein for each locking rib, an upper surface of the locking rib is parallel to and faces away from a lower surface of the locking rib.

24. (Cancelled)

25. (Currently Amended) The coupling platform of claim 9, wherein the coupling platform defines ~~[[the]]~~ a surface of the depressed locking location.

26. (New) The coupling platform of claim 9, wherein the latching recess is centrally located on the panel in front of the plurality of female couplers.

REMARKS

This reply is intended to be completely responsive to the Non-Final Office Action dated September 30, 2021.

Status

Claims 9, 13, 14, 21, and 23-25 are pending in this application. Claims 9, 13, 14, 21, and 23-25 were rejected.

With this amendment, claims 9, 14, and 25 are amended, claim 24 is cancelled, and claim 26 is added.

Applicant believes that each of the rejections raised by the Examiner has been addressed and the application is in condition for allowance. Reconsideration and allowance of the application is respectfully requested.

Claim Rejections - 35 U.S.C. § 103

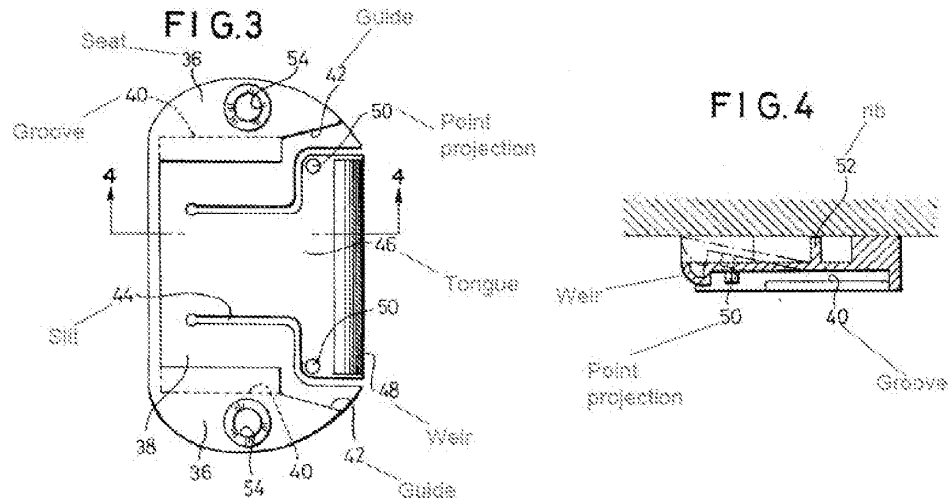
I. **Rejection of claims 9, 13, 14, 21, 23, and 25 under 35 U.S.C. § 103 as being obvious over Kaneko**

On pages 2-4 of the Office Action, the Examiner rejected claims 9, 13, 14, 21, 23, and 25 under 35 U.S.C. § 103 as being unpatentable over Kaneko, U.S. Patent No. 3,935,613.

Applicant respectfully submits that claim 9 is patentable over the cited references for several reasons. First, Kaneko fails to disclose, teach or suggest “each of the female couplers comprises a front wall opposite the back wall that extends from each of the two sidewalls,” which claim 9 as amended recites. Second, the cited references fail to disclose, teach or suggest “a latch recess defined by the panel and located on the panel in front of the plurality of female couplers,” which claim 9 as amended recites.

A. Kaneko fails to disclose, teach or suggest “each of the female couplers comprises a front wall opposite the back wall that extends from each of the two sidewalls”

Applicant respectfully submits that Kaneko fails to disclose, teach or suggest “each of the female couplers comprises a front wall opposite the back wall that extends from each of the two sidewalls,” which claim 9 as amended recites. To disclose the “front wall,” the Office Action cites to weir 48 in Kaneko. Office Action, page 3. Applicant respectfully submits that weir 48 in Kaneko does not extend “from each of the two sidewalls.” For reference, Figs. 3 and 4 in Kaneko are copied and annotated below.



Kaneko, FIGS. 3 and 4 (annotated).

As can be seen above, tongue 46 is flexibly coupled to and extends from seat 36. Weir 48 is located at the end of tongue 46 and extends approximately to the same depth as groove 40 as shown in FIG. 4.

However, nothing in Kaneko discloses, teaches or suggests that weir 48 extends “from each of the two sidewalls,” which claim 9 as amended recites. Instead, weir 48 is delimited at either side by slit 44, which are clearly distanced and separate from guides 42 as shown in FIG. 3 in Kaneko. Slits 44 separate weir 48 from guides 42 thereby permitting tongue 46 to deflect

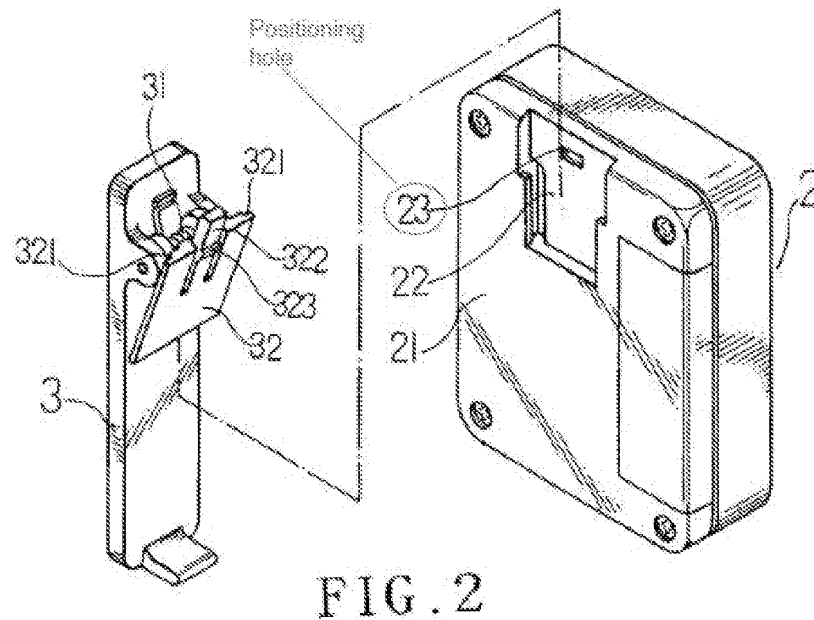
upward (see FIG. 4). Thus, Kaneko does not disclose “each of the female couplers comprises a front wall opposite the back wall that extends from each of the two sidewalls,” which claim 9 as amended recites.

Accordingly, for at least this reason Applicant submits that claim 9 as amended is allowable over Kaneko.

B. The cited references fail to disclose, teach or suggest “a latch recess defined by the panel and located on the panel in front of the plurality of female couplers”

Applicant respectfully submits that the cited references fail to disclose, teach or suggest “a latch recess defined by the panel and located on the panel in front of the plurality of female couplers,” which claim 9 as amended recites. The Examiner indicates that Kaneko fails to disclose a latch recess, which was formerly recited in claim 24. Office Action, page 4.

To remedy this deficiency, the Examiner cites to Chen, U.S. Patent No. 5,664,292. Office Action, page 5. In particular, the Examiner cites to positioning hole 23 in Chen. For reference, Fig. 2 in Chen is copied and annotated below.



Chen, FIG. 2 (annotated).

Applicant respectfully submits that Chen does not disclose, teach or suggest “a latch recess defined by the panel and located on the panel in front of the plurality of female couplers.” In particular, Chen appears to disclose that positioning hole 23 is located within a coupler, not in front of a plurality of couplers.

Accordingly, for at least this additional reason Applicant respectfully submits that claim 9 as amended is allowable over Kaneko and Chen, either considered individually or in combination.

II. Rejection of claim 24 under 35 U.S.C. § 103 as being obvious over Kaneko in view of Chen

On pages 4-5 of the Office Action, the Examiner rejected claim 24 under 35 U.S.C. § 103 as being unpatentable over Kaneko and Chen, U.S. Patent No. 5,664,292.

Applicant respectfully submits that claim 24, which depends from claim 9, is allowable over Kaneko as modified by Chen for at least the same reasons as exist for claim 9, discussed above.

New Claim

Applicant has added new dependent claim 26 to present claims of varying scope. No new matter has been added. Exemplary support for the new claim may be found at paragraphs [0216]-[0217], and FIG. 8A of the application as originally filed. New claim 26 depends from independent claim 9. Applicant respectfully asserts that new claim 26 is patentable for at least the same reasons set forth above regarding independent claim 9.

Applicant further respectfully submits that Kaneko and Chen fail to disclose, teach or suggest “the latching recess is centrally located on the panel in front of the plurality of female couplers,” which claim 26 recites. The Office Action indicates that Kaneko fails to disclose a latching recess. Office Action, page 4. To remedy this deficiency, the Examiner cites to Chen. Office Action, page 5. Applicant respectfully submits that Chen fails to disclose, teach or suggest “the latching recess is centrally located on the panel in front of the plurality of female couplers.” Instead, as noted above Chen appears to show that positioning hole 23 is within a coupler, not centrally located within a panel in front of a plurality of female couplers.

For at least this application reason Applicant respectfully submits that claim 26 is allowable over the cited references.

Conclusion

Applicant believes that the present application is in condition for allowance. Favorable reconsideration of the application is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

It should be noted that, for the sake of clarity and simplicity, Applicant's remarks have focused on the rejections of the independent claims set forth in the Office Action with the understanding that the dependent claims are patentable for at least the same reasons as the independent claims. Further, in addressing the Examiner's rejections, Applicant's remarks have set forth only some of the available arguments for patentability of the rejected claims. Applicant expressly reserves the right to argue the patentability of all claims separately and to provide new, different, and/or additional arguments for patentability not set forth herein, including, but not limited to, the failure of cited references to disclose, teach, or suggest other elements of the claims, the lack of motivation to combine cited references, teachings away from the combination of cited references, the failure of references to qualify as prior art or improper combination of the cited references, in this or any future proceedings.

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. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Respectfully submitted,

Date December 22, 2021

By /Derek H. Campbell/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
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Derek H. Campbell
Attorney for Applicant
Registration No. 70,608

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(c), before the mailing date of any of a final action under 37 CFR § 1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application.

STATEMENT UNDER 37 CFR 1.97(e)

Per 37 CFR §1.97(e)(2), the undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in the 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

FEES

The IDS Fee of \$260.00 under 37 CFR 1.17(p) is being paid via Deposit Account No. 18-0882 via EFS-web.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

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. If any extensions of time are needed for timely acceptance of papers submitted herewith, applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Respectfully submitted,

Date December 22, 2021

By /Derek H. Campbell/

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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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	09/30/2021	EXAMINER	
Reinhart (Milwaukee Tool)			WEINERTH, GIDEON R	
ATTN: TRAVIS MCDONNELL, PARALEGAL			ART UNIT	PAPER NUMBER
1000 NORTH WATER STREET			3736	
SUITE 2100			NOTIFICATION DATE	DELIVERY MODE
MILWAUKEE, WI 53202			09/30/2021	ELECTRONIC

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

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

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

IPAdmin@reinhartlaw.com

Office Action Summary

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 --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 11 June 2021.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ 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.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 9,13-14,21 and 23-25 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 9,13-14,21 and 23-25 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☒ The drawing(s) filed on 06 October 2020 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date 6/11/2021, 8/5/2021.

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.

4) ☐ Other: ____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 11, 2021 has been entered.

3. In the Amended Claims of May 10, 2021, Claims 9, 13, 14, 21, and 23-25 are pending. Claims 9, 13, 21, and 23 are amended. Claims 24 and 25 are new.

Claim Rejections - 35 USC § 103

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

5. Claims 9, 13, 14, 21, 23, and 25 are rejected under 35 U.S.C. 103 as being unpatentable over Kaneko (US 3935613).

6. Regarding Claim 9, Kaneko discloses a coupling platform capable of being used with a stackable utility module (luggage is considered a utility module as discussed in Specification Paragraph 0003) to engage male couplers on casters.

7. While Kaneko does not explicitly disclose the use of the coupling platform with male couplers on an adjacent utility module, a person having ordinary skill in the art

would recognize and find obvious the use of the coupling to couple with other items including an adjacent utility module.

8. Kaneko discloses one or more female couplers (36) each comprising a pair of locking ribs (40), two sidewalls and a depressed locking location (at 46). The pair of locking ribs extend above a surface of the depressed locking location and substantially parallel to a sliding path. Male couplers (26) are configured to be engaged between the pair of locking ribs and the surface of the depressed locking location of the one or more female couplers.

9. Each female coupler also comprises a back wall that extends from each of the two sidewalls and between the two sidewalls, and each of the female couplers comprises a front wall (48) that extends from each of the two sidewalls and between the two sidewalls. A first rib of the pair of locking ribs (40) extends from the back wall in a first direction towards a front of the coupling platform and from a first sidewall of the two sidewalls, and a second rib of the pair of locking ribs extends from the back wall and from a second sidewall of the two sidewalls. Kaneko also discloses a plurality of mounting apertures (54) configured to receive a fastener to secure the coupling platform to a surface.

10. Regarding Claim 13, Kaneko discloses the first rib extends a first distance from the first sidewall and the first rib extends a second distance from the back wall that is more than twice as far as the first distance.

11. Regarding Claim 14, Kaneko discloses a panel comprising a top face in Figure 5. While Kaneko does not disclose the exact dimensions of the panel or the couplers, a person having ordinary skill in the art would be capable of modifying the relative sizes of

the coupler and the panel in order to suit different modules of varying sizes. Applicant has not disclosed that female couplers comprising at least 50% of an area of the top face serves a particular purpose or achieves a particular result. Therefore, one having ordinary skill in the art would recognize that modifying the relative sizes of the coupler and the associated panel may be varied as an obvious variation in attaching differently sized modules with appropriately sized connectors that would produce no unexpected results based on the dimensions and features of the final platform.

12. Regarding Claim 21, Kaneko discloses in Figure 5 female couplers arranged along a plurality of rows and a plurality of columns perpendicular to the plurality of rows. Each row comprises two or more female couplers and each column comprises two or more female couplers, wherein each of the plurality of columns are parallel to the first direction.

13. Regarding Claim 23, Kaneko discloses that for each locking rib, an upper surface of the locking rib is parallel to and faces away from a lower surface of the locking rib.

14. Regarding Claim 25, Kaneko discloses the coupling platform defines the surface of the depressed locking location.

15. Claim 24 is rejected under 35 U.S.C. 103 as being unpatentable over Kaneko (US 3935613) as applied to claim 9 above, and further in view of Chen (US 5664292).

16. Regarding Claim 24, Kaneko discloses the limitations of Claim 9 as discussed above. Kaneko does not disclose a latch recess configured to receive a latch from the adjacent utility module, the latch recess located in front of at least one of the female couplers.

17. Chen discloses a similar female coupler (91) comprising two ribs adapted to receive a male member (32) including a latch recess (23) configured to receive a latch (323) from an adjacent module. Kaneko and Chen are analogous inventions in the art of coupling members with two ribs that receive a sliding male member.

18. It would have been obvious for one having ordinary skill in the art before the effective filing date of the claimed invention to modify the coupling platform of Kaneko with the latch recess of Chen in order to position and lock the male member in place (Col. 2 Lines 3-14).

Response to Arguments

19. Applicant's arguments with respect to claim 9 have been considered but are moot because the new ground of rejection does not rely on any reference applied in the prior rejection of record for any teaching or matter specifically challenged in the argument.

Conclusion

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

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

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

<i>Notice of References Cited</i>	Application/Control No. 17/064,371		Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH		Art Unit 3736	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-0495537-A	04-1893	WESTERMAN THEODORE	A47B57/42	248/224.61
*	B	US-1081378-A	12-1913	FREEMAN ALVIN L	A47B95/008	248/223.41
*	C	US-2124541-A	07-1938	CASSEY THOMAS E	H02G3/10	248/223.41
*	D	US-2939613-A	06-1960	SAM HERMAN	A47K5/1214	222/181.2
*	E	US-3423786-A	01-1969	ARIAS HENRY JR	E05D7/12	16/257
*	F	US-3935613-A	02-1976	Kaneko; Katsuyoshi	A45C5/143	16/30
*	G	US-4817237-A	04-1989	Murphy; James F.	B60B33/0002	16/257
*	H	US-4929973-A	05-1990	Nakatani; Kouichiro	F16M11/041	248/177.1
*	I	US-5356105-A	10-1994	Andrews; Del	B63B35/14	248/221.11
*	J	US-5356038-A	10-1994	Banks; Stewart	A47K5/1204	222/105
*	K	US-5622296-A	04-1997	Pirhonen; Ilkka	A45F5/02	224/197
*	L	US-5664292-A	09-1997	Chen; Tonny	A45F5/02	24/3.11
*	M	US-5850996-A	12-1998	Liang; Ying-Ping	H04M1/04	248/221.11

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. 20210926

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 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-6098858-A	08-2000	Laugesen; Lise-Lotte	A45F5/02	224/197
*	B	US-6371424-B1	04-2002	Shaw; Stephen David	F16M11/041	248/187.1
*	C	US-20050015928-A1	01-2005	Arsenault, Gerald	B60B33/0049	16/300
*	D	US-7077372-B2	07-2006	Moran; Eric M.	A61B90/39	248/222.11
*	E	US-7090085-B1	08-2006	Vicendese; James A.	A47F5/08	211/106.01
*	F	US-20100176261-A1	07-2010	CHEN; Dong-Ying	G06F1/18	248/231.91
*	G	US-20180127007-A1	05-2018	Kravchenko; Alina	B62B1/04	1/1
*	H	US-10222172-B2	03-2019	Melville; Toby J.	F41C33/041	1/1
*	I	US-D898320-S	10-2020	Brunner; Yaron	A47K5/1214	D34/23
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	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. 20210926

<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							
	1	N	N							
	2	N	N							
	3	N	N							
	4	N	N							
	5	N	N							
	6	N	N							
	7	N	N							
	8	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		✓							

<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

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

/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

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

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

Search Notes		
Search Notes	Date	Examiner

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

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: August 5, 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	6,082,687	07-04-2000	Kump et al.	
/G.R.W/	A2	7,172,164	02-06-2007	Fueling et al.	
/G.R.W/	A3	7,837,165	11-23-2010	Stone	
/G.R.W/	A4	11,008,136	05-18-2021	Brunner et al.	
/G.R.W/	A5	2006/0076261	04-13-2006	Kurtenbach	

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

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	09/26/2021
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 11, 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	3	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	509,839	11-28-1893	Bowley	
	A2	1,084,360	01-13-1914	Rahm	
	A3	3,424,334	01-28-1969	Goltz	
	A4	3,999,818	12-28-1976	Schankler	
	A5	4,122,925	10-31-1978	Schultheiss	
	A6	4,243,279	01-06-1981	Ackeret	
	A7	4,673,070	06-16-1987	Ambal	
	A8	5,325,966	07-05-1994	Chang	
	A9	5,375,709	12-27-1994	Petro	
	A10	5,429,235	07-04-1995	Chen	
	A11	6,082,539	07-04-2000	Lee	
	A12	6,889,838	05-10-2005	Meier et al.	
	A13	7,152,752	12-26-2006	Kurtenbach	
	A14	7,219,969	05-22-2007	Bezzubov	
	A15	7,690,856	04-06-2010	Mortensen	
	A16	8,602,217	12-10-2013	Sosnovsky et al.	
	A17	8,640,913	02-04-2014	Berendes	
	A18	8,925,752	01-06-2015	Smith	
	A19	10,603,783	03-31-2020	Brockett et al.	
	A20	10,703,534	07-07-2020	Brunner et al.	
	A21	10,750,833	08-25-2020	Burchia	
	A22	10,793,172	10-06-2020	Brunner	
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	A25	10,981,696	04-20-2021	Brunner et al.	
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	A30	2012/0152944	06-21-2012	Vilkomirski et al.	

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	09/24/2021
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 11, 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	2	of	3	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
	A31	2014/0069832	03-13-2014	Roehm	
	A32	2014/0123478	05-08-2014	Gylander et al.	
	A33	2015/0014949	01-15-2015	Dittman	
	A34	2015/0151427	06-04-2015	Ben-Gigi	
	A35	2018/0229889	08-16-2018	Li	
	A36	2020/0029543	01-30-2020	Householder	
	A37	2020/0223585	07-16-2020	Brunner et al.	
	A38	2020/0346819	11-05-2020	Kogel et al.	
	A39	2021/0025706	01-28-2021	Millane	
	A40	2021/0031975	02-04-2021	Brunner et al.	
	A41	2021/0039831	02-11-2021	Brunner et al.	
	A42	D285,986	10-07-1986	Huang	
	A43	D738,622	09-15-2015	Sabbag et al.	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	09/24/2021
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				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	3	of	3	Attorney Docket Number	066749-2792

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	09/24/2021
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If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	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

L2	2	((("3935613")) or ("5664292")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/26 20:20
L3	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
L22	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-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:25

	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-\$ 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-\$				
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	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 (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-				
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		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.				
L23	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

L24	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
L43	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.				
L44	22	L3 not (L22 L23 L43)	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 20:27
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;	OR	OFF	2020/11/24 16:18

			USPAT; USOCR			
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-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.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:22
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-	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:25

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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" "7255231" "7303075" "7364172" "8157094" "8256242" "8567795" "8684372" "8714568" "8727163" "8876145" "8910955" "9050852" "9409585").PN. OR ("9522763").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:47
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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 16:54

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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"	US- PGPUB;	OR	OFF	2020/11/24 17:10

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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" "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.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:11
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")	US- PGPUB;	OR	OFF	2020/11/24 17:20

		or ("2703200") or ("2715559") or ("2974808") or ("3030163") or ("3081023") or ("3107012").PN.	USPAT; USOCR			
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"	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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:29

		"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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:30

		"3757911" "6213266" "20080121547" "1084360" "5971119" "20100224528" "20140062281" "20150274362" "20170318927").PN.				
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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:26

		"6129252" "6427497" "6929233" "6935065" "6986446" "7267353" "7467719" "7478892" "7770740" "8444034" "D611558").PN. OR ("8678206").URPN.				
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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:44

		"5829243" "5855279" "6375129" "6378811" "6513781" "6889944" "7467767" "7497718" "7686259" "7802680" "7828251" "8074945" "8079552").PN.				
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" "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.	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:46
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"	US- PGPUB;	OR	OFF	2020/11/24 22:49

		"6997282" "7540560" "7658265").PN. OR ("10184292").URPN.	USPAT; USOCR			
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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:57

		"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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:09

		"5267863" "D334704" "D337653").PN. OR ("5775046").URPN.				
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" "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"	US- PGPUB;	OR	OFF	2020/11/24 23:20

		"20130193179" "20140374564" "2920767" "3605637" "4256424" "4687094" "4708311" "5083668" "5674033" "6824028" "6945414" "7261264" "7392912" "8613564").PN. OR ("10683963").URPN.	USPAT; USOCR			
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"	US- PGPUB;	OR	OFF	2020/11/25 19:27

		"4653713" "4805859" "4819922" "4874147" "4967929" "4986505" "5007612" "5009380").PN. OR ("5240214").URPN.	USPAT; USOCR			
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-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:22

	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 (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-\$				
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	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-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-\$				
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	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-\$ 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; 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
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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-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 21:57

	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-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-				
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	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-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-			
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		\$ 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-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 22:05

	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- \$ 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-				
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	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 (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-			
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	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-\$ 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			
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		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"	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/04 18:38

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"20070090616"	"20070145700"				
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"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"			
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"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"			

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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"	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:02

		"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" "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.				
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"	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:19

		"4176580" "4620736" "5026016" "5425524" "5433416" "5806822" "5833205" "6082688" "6142892" "6457687" "6481679" "6779766" "6811348" "7273203" "8011071" "8096026" "D329192" "D753982").PN. OR ("10400949").URPN.				
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" "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.	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/04 19:20
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"	US- PGPUB; USPAT; USOCR	OR	ON	2021/03/08 23:29

		"5628443" "5653366" "5775046" "5890613" "5957421" "8448829").PN.				
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- 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.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:13
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"	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 22:33

		"7070049" "D443199").PN. OR ("8499986").URPN.				
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" "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"	US- PGPUB;	OR	ON	2021/09/24 22:49

		"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.	USPAT; USOCR			
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" "7172164" "7261264" "7270309" "7594823" "7673838" "7726706" "8215605" "8292521" "8333353" "D329192" "D380219" "D658972").PN. OR ("8544805").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:11
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"	US-PGPUB;	OR	ON	2021/09/24 23:30

		"4176580" "4218058" "4348022" "4397464").PN. OR ("4613135").URPN.	USPAT; USOCR			
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" "D559657" "D587640" "D628607" "D635008" "D637599").PN. OR ("D658972").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:34
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" "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.	US- PGPUB; USPAT; USOCR	OR	ON	2021/09/24 23:46
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"	US- PGPUB;	OR	ON	2021/09/24 23:54

		"5356105" "6637707" "6824114").PN. OR ("7837165").URPN.	USPAT; USOCR			
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" "6095470" "6318687" "6321943" "6427958" "6557206" "6572063" "6983918" "7234673" "D394933").PN. OR ("8833596").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/25 00:00
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;	OR	ON	2021/09/26 15:00

			USPAT; USOCR			
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"	US- PGPUB;	OR	ON	2021/09/26 15:33

		"4948085" "5181774").PN. OR ("5332183").URPN.	USPAT; USOCR			
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-\$	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 17:41

		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.				
S266	457	Y10T16/5357.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/09/26 17:45

9/26/2021 8:28:53 PM

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: August 5, 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	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	6,082,687	07-04-2000	Kump et al.	
	A2	7,172,164	02-06-2007	Fueling et al.	
	A3	7,837,165	11-23-2010	Stone	
	A4	11,008,136	05-18-2021	Brunner et al.	
	A5	2006/0076261	04-13-2006	Kurtenbach	

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)			

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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)				

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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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Electronic Acknowledgement Receipt	
EFS ID:	43433836
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:	05-AUG-2021
Filing Date:	06-OCT-2020
Time Stamp:	14:46:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	066749-2792_IDS_Transmittal.pdf	95923	no	2
			1fe023bbc79b255dca88d5c5a9cd13ddb010f80e		
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	066749-2792_SB08.pdf	114593	no	1
			363d25d3152fcc17c58e2d17ab95e24cb2691aaa		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
Total Files Size (in bytes):			210516		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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 date of the first Office action after the filing of a request for continued examination.

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 August 5, 2021

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

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 11, 2021 <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	3	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	509,839	11-28-1893	Bowley	
	A2	1,084,360	01-13-1914	Rahm	
	A3	3,424,334	01-28-1969	Goltz	
	A4	3,999,818	12-28-1976	Schankler	
	A5	4,122,925	10-31-1978	Schultheiss	
	A6	4,243,279	01-06-1981	Ackeret	
	A7	4,673,070	06-16-1987	Ambal	
	A8	5,325,966	07-05-1994	Chang	
	A9	5,375,709	12-27-1994	Petro	
	A10	5,429,235	07-04-1995	Chen	
	A11	6,082,539	07-04-2000	Lee	
	A12	6,889,838	05-10-2005	Meier et al.	
	A13	7,152,752	12-26-2006	Kurtenbach	
	A14	7,219,969	05-22-2007	Bezzubov	
	A15	7,690,856	04-06-2010	Mortensen	
	A16	8,602,217	12-10-2013	Sosnovsky et al.	
	A17	8,640,913	02-04-2014	Berendes	
	A18	8,925,752	01-06-2015	Smith	
	A19	10,603,783	03-31-2020	Brockett et al.	
	A20	10,703,534	07-07-2020	Brunner et al.	
	A21	10,750,833	08-25-2020	Burchia	
	A22	10,793,172	10-06-2020	Brunner	
	A23	10,829,269	11-10-2020	Gonitiner et al.	
	A24	10,933,501	03-02-2021	Bisson	
	A25	10,981,696	04-20-2021	Brunner et al.	
	A26	2003/0094392	05-22-2003	Meier et al.	
	A27	2010/0224528	09-09-2010	Madsen	
	A28	2011/0139777	06-16-2011	Sosnovsky et al.	
	A29	2012/0080432	04-05-2012	Bensman et al.	
	A30	2012/0152944	06-21-2012	Vilkomirski et al.	

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 11, 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	2	of	3	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
	A31	2014/0069832	03-13-2014	Roehm	
	A32	2014/0123478	05-08-2014	Gylander et al.	
	A33	2015/0014949	01-15-2015	Dittman	
	A34	2015/0151427	06-04-2015	Ben-Gigi	
	A35	2018/0229889	08-16-2018	Li	
	A36	2020/0029543	01-30-2020	Householder	
	A37	2020/0223585	07-16-2020	Brunner et al.	
	A38	2020/0346819	11-05-2020	Kogel et al.	
	A39	2021/0025706	01-28-2021	Millane	
	A40	2021/0031975	02-04-2021	Brunner et al.	
	A41	2021/0039831	02-11-2021	Brunner et al.	
	A42	D285,986	10-07-1986	Huang	
	A43	D738,622	09-15-2015	Sabbag et al.	

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		Date Considered	
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				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	3	of	3	Attorney Docket Number	066749-2792

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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.

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/Andrea Dietzel		
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- 1ST REQUEST	1801	1	1360	1360
Total in USD (\$)				1360

Electronic Acknowledgement Receipt	
EFS ID:	42962172
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/Andrea Dietzel
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2792
Receipt Date:	11-JUN-2021
Filing Date:	06-OCT-2020
Time Stamp:	12:18:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1360
RAM confirmation Number	E20216AC21283855
Deposit Account	180882
Authorized User	Andrea Dietzel
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	Request for Continued Examination (RCE)	066749-2792_RCE.pdf	81940	no	3
			6f57d07f9f7ebe54d4763824d32e3b080aa8c770		
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2	Transmittal Letter	066749-2792_IDS_Transmittal.pdf	80722	no	2
			5c8ab3ab7c35c04407f33faa1b320358114dfb11		
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	066749-2792_SB08.pdf	123604	no	3
			8f8c7561954fc90cd0c16b3e9fcc8c41774ca75d2		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
4	Fee Worksheet (SB06)	fee-info.pdf	30601	no	2
			a279a97ffc756e0c63dea1cd7d9e90668032cbcd0		
Warnings:					
Information:					
Total Files Size (in bytes):			316867		

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.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)							
Application Number	17/064,371	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 <u>Final Office Action Response filed on May 10, 2021</u>							
☒ 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)	2021-06-11
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.

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 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 11, 2021

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 17/064,371		Filing Date 10/06/2020		☐ To be Mailed		
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO										
APPLICATION AS FILED - PART I										
		(Column 1)			(Column 2)					
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =		*		x \$100 =				
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =		*		x \$480 =				
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL				
APPLICATION AS AMENDED - PART II										
		(Column 1)			(Column 2)	(Column 3)				
AMENDMENT	06/11/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	* 7	Minus	** 20	= 0	x \$100 =		0		
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 4	= 0	x \$480 =		0		
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE		0		
		(Column 1)			(Column 2)	(Column 3)				
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =				
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE				
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE				
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/DAWN BREWER/				
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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	05/17/2021		
Reinhart (Milwaukee Tool)			EXAMINER	
ATTN: TRAVIS MCDONNELL, PARALEGAL			WEINERTH, GIDEON R	
1000 NORTH WATER STREET				
SUITE 2100			ART UNIT	PAPER NUMBER
MILWAUKEE, WI 53202			3736	
			NOTIFICATION DATE	DELIVERY MODE
			05/17/2021	ELECTRONIC

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

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

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

IPAdmin@reinhartlaw.com

Advisory Action Before the Filing of an Appeal Brief	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 --

THE REPLY FILED 10 May 2021 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☒ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:

a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.

b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection. The current period for reply expires _____ months from the mailing date of the prior Advisory Action or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.

Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☒ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because

a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);

b) ☐ They raise the issue of new matter (see NOTE below);

c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or

d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet (See 37CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5. ☐ Applicants reply has overcome the following rejection(s): _____

6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7. ☒ For purposes of appeal, the proposed amendment(s): (a) ☒ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

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

9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____

13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____

14. ☒ Other: See Continuation Sheet.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____

Claim(s) objected to: _____

Claim(s) rejected: 9, 13-14 and 21-23.

Claim(s) withdrawn from consideration: _____

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	
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Continuation of 3. NOTE: The Amended claims present new structural limitations that will require additional searching. The amended claims also recite limitations relating to the front walls which are not adequately shown.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875			Application or Docket Number 17/064,371		Filing Date 10/06/2020		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO								
APPLICATION AS FILED - PART I								
		(Column 1)	(Column 2)					
FOR		NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A	N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =	*		x \$100 =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*		x \$480 =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))								
* If the difference in column 1 is less than zero, enter "0" in column 2.					TOTAL			
APPLICATION AS AMENDED - PART II								
		(Column 1)	(Column 2)		(Column 3)			
AMENDMENT	05/10/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 7	Minus	** 20	= 0	x \$100 =	0	
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 4	= 0	x \$480 =	0	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
						TOTAL ADD'L FEE	0	
		(Column 1)	(Column 2)		(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =		
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
						TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE		
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/GLORIA J NORRIS/		
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".								
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.								

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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

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

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.116

This communication is responsive to the Final Office Action dated March 11, 2021,
concerning the above-referenced patent application.

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

Remarks begin on page 4 of this document.

Please amend the application as follows:

Electronic Acknowledgement Receipt	
EFS ID:	42681708
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/Andrea Dietzel
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2792
Receipt Date:	10-MAY-2021
Filing Date:	06-OCT-2020
Time Stamp:	17:12:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		066749-2792_Amendment.pdf	263323	yes	13
			3859a3fcdef35ac0b05205996a18afa8f2727581		

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Applicant Arguments/Remarks Made in an Amendment	4	13
	Claims	2	3
	Response After Final Action	1	1
Warnings:			
Information:			
Total Files Size (in bytes):		263323	
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.			

REMARKS

This reply is intended to be completely responsive to the Final Office Action dated March 11, 2021.

Status

Claims 1-20 are pending in this application. Claims 9, 13-14, and 21-23 were rejected, and claims 1-8 and 15-20 are withdrawn.

With this amendment, claims 9, 21 and 23 are amended, claims 1-8, 15-20, and 22 are cancelled, and new claims 24 and 25 are added.

Applicant believes that each of the rejections raised by the Examiner has been addressed and the application is in condition for allowance. Reconsideration and allowance of the application is respectfully requested.

Drawing Objections

On pages 2-4 of the Office Action, the Examiner objected to the drawings for not showing every feature of the invention specified in the claims. Specifically, the Examiner states the drawings do not show the “mounting apertures configured to secure the coupling platform to the stackable utility module.” Office Action, page 2. According to the Office Action, there is no depiction as to how coupling may be effected by the mounting apertures. Office Action, page 2. According to the Office, the Examiner interpreted that the mounting apertures provide a means to accept fasteners. Office Action, page 7.

Without conceding the propriety of this objection, to expedite prosecution in this application claim 9 has been amended to recite “comprising a plurality of mounting apertures configured to receive a fastener to secure the coupling platform to a surface.” Support for this feature can be found at least at FIG. 18A and paragraphs 237-238, which recites in relevant part “a rigid coupling platform 300, configured with a plurality of female coupling locations (of the

type disclosed herein) and further configured with bolt eyes 298 for securing to any desired surface.” Subject application, paragraph 237 (emphasis added).

The Examiner also objected to the drawings not showing the features recited in claim 22. Without conceding the propriety of this objection, to expedite prosecution of this application Applicant has cancelled claim 22.

Accordingly, Applicant respectfully requests withdrawal of the objection to the drawings.

Specification Objection

On page 4 of the Office Action, the Examiner objected to the specification for not providing description for how apertures are configured to secure the platform, as recited in claim 9, and for not providing information related to an elevated surface, as recited in claim 22. Office Action, page 4.

In regard to claim 9, without conceding the propriety of this objection, to expedite prosecution in this application claim 9 has been amended to recite “comprising a plurality of mounting apertures configured to receive a fastener to secure the coupling platform to a surface.” As noted above, support for this feature is found in the specification at least at paragraphs 237-238.

In regard to claim 22, without conceding the propriety of this objection, to expedite prosecution of this application Applicant has cancelled claim 22.

Accordingly, Applicant respectfully requests withdrawal of the objection to the specification.

Claim Rejections - 35 U.S.C. § 112

I. Rejection of claims 9, 13, 14, and 21-23 under 35 U.S.C. § 112(a) as not complying with the written description requirement

On pages 4-6 of the Office Action, the Examiner rejected claims 9, 13, 14, and 21-23 under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement for including subject matter that is not described in the specification in such a way as to demonstrate possession at the time the application was filed.

In regard to claim 9, the Examiner indicates that the phrase “a plurality of mounting apertures configured to secure the coupling platform to the stackable utility module” is not enabled. Office Action, page 5. Without conceding the propriety of this rejection, to expedite prosecution in this application claim 9 has been amended to recite “comprising a plurality of mounting apertures configured to receive a fastener to secure the coupling platform to a surface.” As noted above, support for this feature is found at least at FIG. 18A and paragraphs 237-238. Accordingly, Applicant respectfully submits that Applicant claim 9 as amended is enabled.

In regard to claim 22, the Examiner indicates that the phrase “elevated surface” is not enabled. Office Action, page 6. In regard to claim 22, without conceding the propriety of this rejection, to expedite prosecution of this application Applicant has cancelled claim 22.

Accordingly, Applicant respectfully requests withdrawal of this rejection.

II. Rejection of claims 9, 13, 14, and 21-23 under 35 U.S.C. § 112, second paragraph, as being indefinite

On pages 6-7 of the Office Action, the Examiner rejected claims 9, 13, 14, and 21-23 under 35 U.S.C. § 112, first paragraph, for being indefinite.

In regard to claim 9, the Examiner indicates that the phrase “a plurality of mounting apertures configured to secure the coupling platform to the stackable utility module” is not

supported. Office Action, page 6. Without conceding the propriety of this rejection, to expedite prosecution in this application claim 9 has been amended to recite “comprising a plurality of mounting apertures configured to receive a fastener to secure the coupling platform to a surface.” As noted above, support for this feature is found in the specification at least at FIG. 18A and paragraphs 237-238.

In regard to claim 22, the Examiner indicates that the phrase “elevated surface” is not enabled and is indefinite. Office Action, page 7. Without conceding the propriety of this rejection, to expedite prosecution of this application Applicant has cancelled claim 22.

In regard to claim 23, the Examiner indicated that there is insufficient antecedent basis for “the upper surface” and “the lower surface.” Applicant has amended “the upper surface” and “the lower surface” to “an upper surface” and “a lower surface,” respectively.

Accordingly, Applicant respectfully requests withdrawal of this rejection under § 112.

Claim Rejections - 35 U.S.C. § 102(a)(1)

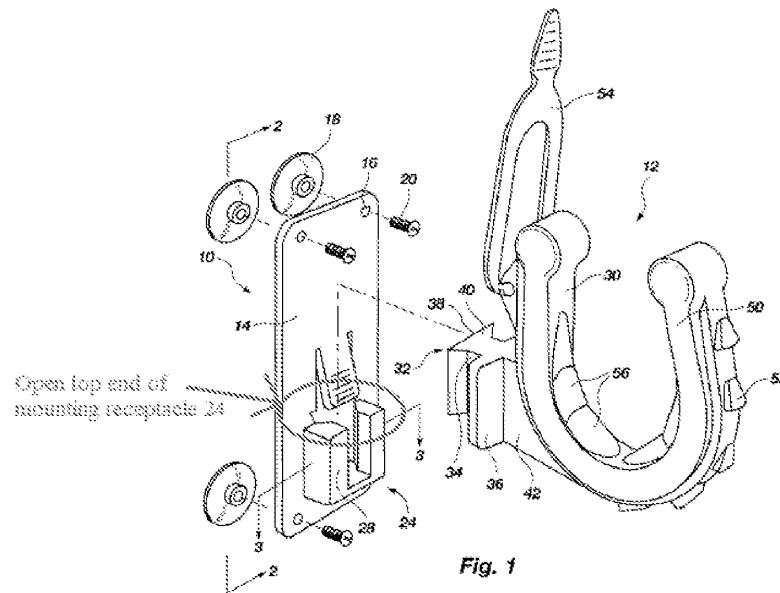
I. Rejection of claims 9 and 13 under 35 U.S.C. § 102(a)(1) as being anticipated by Gates

On pages 7-8 of the Office Action, the Examiner rejected claims 9 and 13 under 35 U.S.C. § 102(a)(1) as being anticipated by Gates, U.S. Patent No. 6,637,707.

Applicant submits that Gates fails to disclose a front wall and back wall as recited in amended claim 9. Claim 9 as amended recites in relevant part:

each of the female couplers comprises a back wall that extends from each of the two sidewalls and between the two sidewalls, and each of the female couplers comprises a front wall that extends from each of the two sidewalls and between the two sidewalls.

Instead, Gates appears to show an open ended mounting receptacle 24. FIG. 1 in Gates is copied and annotated below.



Gates, FIG. 1 (annotated).

Accordingly, Applicant respectfully asserts that independent claim 9, and dependent claim 13, which depends from claim 9, are not anticipated by Gates under 35 U.S.C. § 102(a)(1) and therefore the rejection should be withdrawn.

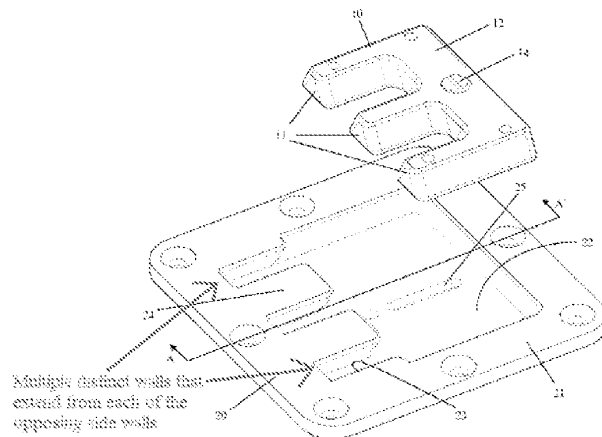
Claim Rejections - 35 U.S.C. § 103

I. Rejection of claims 9, 13, 14, and 21-23 under 35 U.S.C. § 103 as being obvious over Ko in view of Johnson

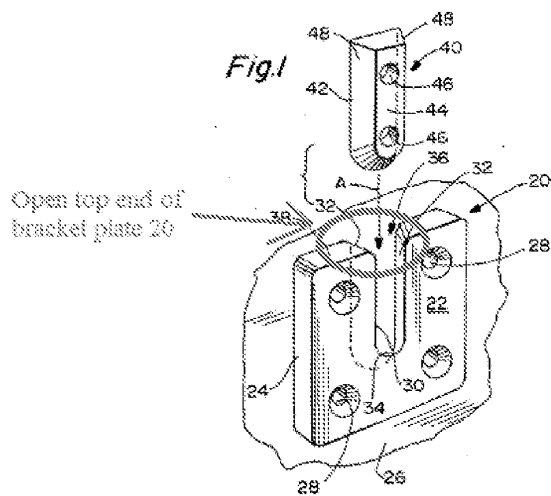
On pages 8-12 of the Office Action, the Examiner rejected claim 9, 13, 14, and 21-23 under 35 U.S.C. § 103 as being unpatentable over Ko, U.S. Patent Publication No. 2014/0161518, and Johnson, U.S. Patent No. 5,433,416.

Applicant respectfully submits that the combination of Ko and Johnson do not disclose, teach or suggest a front wall and back wall as recited in amended claim 9. Instead, Ko appears to show multiple distinct walls that extend from opposing side walls, and Johnson appear to show

an open front end of the coupling component. FIG. 1A in Ko and FIG. 1 in Johnson are copied and annotated below.



Ko, FIG. 1A (annotated).



Johnson, FIG. 1 (annotated).

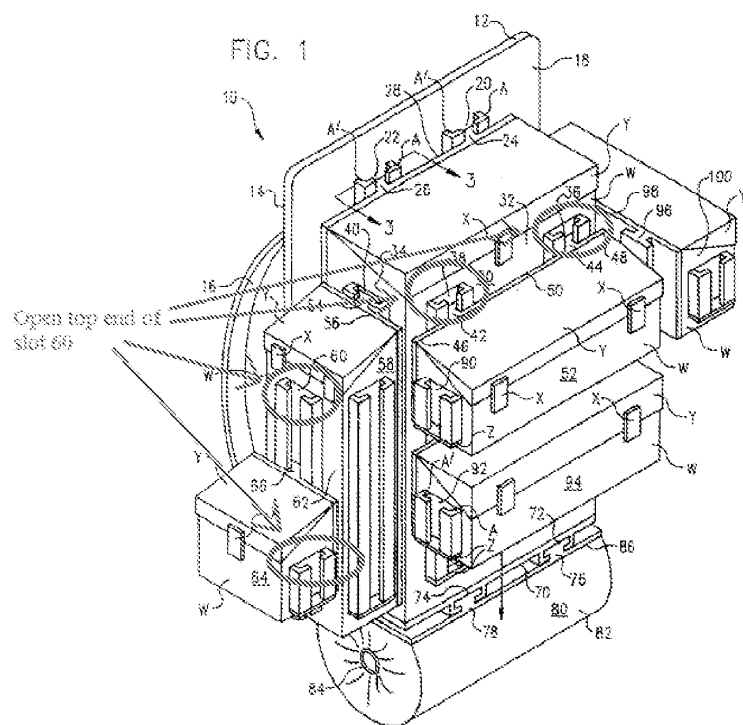
Applicant therefore submits that the combination of Ko and Johnson fails to disclose, teach or suggest “each of the female couplers comprises a back wall that extends from each of the two sidewalls and between the two sidewalls, and each of the female couplers comprises a front wall that extends from each of the two sidewalls and between the two sidewalls,” which claim 9 as amended recites.

Accordingly, Applicant respectfully asserts that independent claim 9 as amended, and claims 13-14, 21 and 23, which depend from claim 9, are patentable over Ko and Johnson under 35 U.S.C. § 103. Further, Applicant submits that the cancellation of claim 22 has rendered the rejection of claim 22 moot.

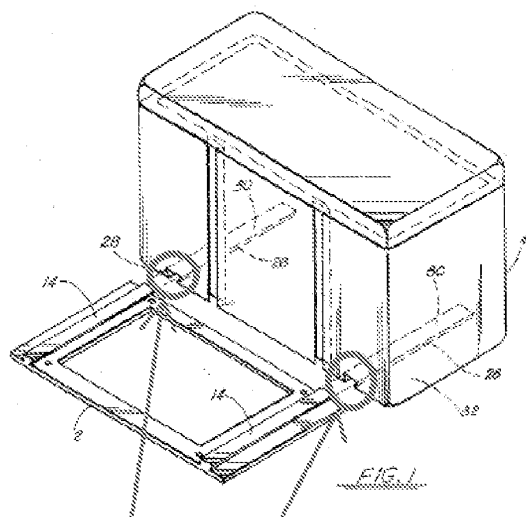
II. Rejection of claims 9, 13 and 23 under 35 U.S.C. § 103 as being obvious over Deutsch in view of Hudson

On pages 12-13 of the Office Action, the Examiner rejected claim 9, 13, and 23 under 35 U.S.C. § 103 as being unpatentable over Deutsch, U.S. Patent No. 5,628,443, and Hudson, U.S. Patent No. 4,805,859.

Applicant respectfully submits that the combination of Deutsch and Hudson do not disclose, teach or suggest a front wall and back wall as recited in amended claim 9. Instead, Deutsch and Hudson each appear to show an open front end of the coupling component. FIG. 1 in Deutsch and FIG. 1 in Hudson are copied and annotated below.



Deutsch, FIG. 1 (annotated).



Open front end of faces 28, 30

Hudson, FIG. 1 (annotated).

Applicant therefore submits that the combination of Ko and Johnson fail to disclose, teach or suggest “each of the female couplers comprises a back wall that extends from each of the two sidewalls and between the two sidewalls, and each of the female couplers comprises a front wall that extends from each of the two sidewalls and between the two sidewalls,” which claim 9 as amended recites.

Accordingly, Applicant respectfully asserts that independent claim 9 as amended, and claims 13 and 23, which depend from claim 9, are patentable over Deutsch and Hudson under 35 U.S.C. § 103.

New Claims

Applicant has added new dependent claims 24 and 25 to present claims of varying scope. No new matter has been added. Exemplary support for the new claims 24 and 25 may be found at least at FIGS. 10A, 10B, and 18A and paragraph [0225] of the application as originally filed. New claims 24 and 25 depend from independent claim 9. Applicant respectfully asserts that new claims 24 and 25 are patentable for at least the same reasons set forth above regarding independent claim 9.

Conclusion

Applicant believes that the present application is in condition for allowance. Favorable reconsideration of the application is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

It should be noted that, for the sake of clarity and simplicity, Applicant’s remarks have focused on the rejections of the independent claims set forth in the Office Action with the understanding that the dependent claims are patentable for at least the same reasons as the

independent claims. Further, in addressing the Examiner's rejections, Applicant's remarks have set forth only some of the available arguments for patentability of the rejected claims. Applicant expressly reserves the right to argue the patentability of all claims separately and to provide new, different, and/or additional arguments for patentability not set forth herein, including, but not limited to, the failure of cited references to disclose, teach, or suggest other elements of the claims, the lack of motivation to combine cited references, teachings away from the combination of cited references, the failure of references to qualify as prior art or improper combination of the cited references, in this or any future proceedings.

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. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Respectfully submitted,

Date May 10, 2021

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

Amendments to the Claims:

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

Listing of Claims:

1-8. (Cancelled)

9. (Currently Amended) A coupling platform for a stackable utility module configured to engage male couplers on an adjacent utility module comprising:

one or more female couplers each comprising a pair of locking ribs, two sidewalls and a depressed locking location, the pair of locking ribs extending above a surface of the depressed locking location and substantially parallel to a sliding path, wherein the male couplers of the adjacent utility module are configured to be engaged between the pair of locking ribs and the surface of the depressed locking location of the one or more female couplers, wherein each of the female couplers ~~comprises further comprising~~ a back wall that extends from each of the two sidewalls and between the two sidewalls, and each of the female couplers comprises a front wall that extends from each of the two sidewalls and between the two sidewalls, wherein a first rib of the pair of locking ribs extends from the back wall in a first direction towards a front of the coupling platform and from a first sidewall of the two sidewalls, and a second rib of the pair of locking ribs extends from the back wall and from a second sidewall of the two sidewalls; and comprising a plurality of mounting apertures configured to receive a fastener to secure the coupling platform to a surface ~~the stackable utility module~~.

10-12. (Cancelled)

13. (Previously Presented) The coupling platform of claim 9, wherein the first rib extends a first distance from the first sidewall and the first rib extends a second distance from the back wall that is more than twice as far as the first distance.

14. (Original) The coupling platform of claim 9, further comprising a panel comprising a top face from which the one or more female couplers extend, wherein the depressed locking locations of the one or more female couplers comprise at least 50% of an area of the top face.

15-20. (Cancelled)

21. (Currently Amended) The coupling platform of claim 9, wherein the one or more female couplers are arranged along a plurality of rows and a plurality of columns perpendicular to the plurality of rows, each row comprises two or more female couplers and each column comprises two or more female couplers, wherein each of the plurality of columns are parallel to the first direction.

22. (Cancelled)

23. (Currently Amended) The coupling platform of claim 9, wherein for each locking rib, an [[the]] upper surface of the locking rib is parallel to and faces away from a [[the]] lower surface of the locking rib.

24. (New) The coupling platform of claim 9, comprising a latch recess configured to receive a latch from the adjacent utility module, the latch recess located in front of at least one of the female couplers.

25. (New) The coupling platform of claim 9, wherein the coupling platform defines the surface of the depressed locking location.

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

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

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.116

This communication is responsive to the Final Office Action dated March 11, 2021, concerning the above-referenced patent application.

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

Remarks begin on page 4 of this document.

Please amend the application as follows:



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	03/11/2021	EXAMINER	
Reinhart (Milwaukee Tool)			WEINERTH, GIDEON R	
ATTN: TRAVIS MCDONNELL, PARALEGAL				
1000 NORTH WATER STREET				
SUITE 2100				
MILWAUKEE, WI 53202				
			ART UNIT	PAPER NUMBER
			3736	
			NOTIFICATION DATE	DELIVERY MODE
			03/11/2021	ELECTRONIC

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

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

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

IPAdmin@reinhartlaw.com

Office Action Summary

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 --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 18 February 2021.

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

2a) ☒ This action is **FINAL**.

2b) ☐ This action is non-final.

3) ☐ 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.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 9,13-14 and 21-23 is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 9,13-14 and 21-23 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☒ The drawing(s) filed on 06 October 2020 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

3) ☐ Interview Summary (PTO-413)

Paper No(s)/Mail Date ____.

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)

4) ☐ Other: ____.

Paper No(s)/Mail Date 1/7/2021.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Response to Amendment

2. In the Amended Claims of February 18, 2021, Claims 9, 13, 14, and 21-23 are pending. Claims 9 and 13 are amended. Claims 21 through 23 are new.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings originally filed on October 6, 2020 must show every feature of the invention specified in the claims. Therefore, following must be shown:

4. Claim 1 recites the mounting apertures are configured to secure the coupling platform to the stackable utility module. There is no depiction as to how ‘coupling’ may be effected by the mounting apertures. An example as to how the mounting apertures function in securing the coupling platform to the utility module must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

5. Claim 22 recites the top face comprises an elevated surface that extends from each of the sidewalls, wherein the elevated surface is planar with an upper surface of each of the locking ribs. This is not shown. Indeed, there is no such element described as an “elevated surface” of the top surface, nor is any element shown as being planar with an upper surface of the locking ribs. In every embodiment, the two opposing locking ribs are ABOVE the upper surface. See Diagram 1 below.

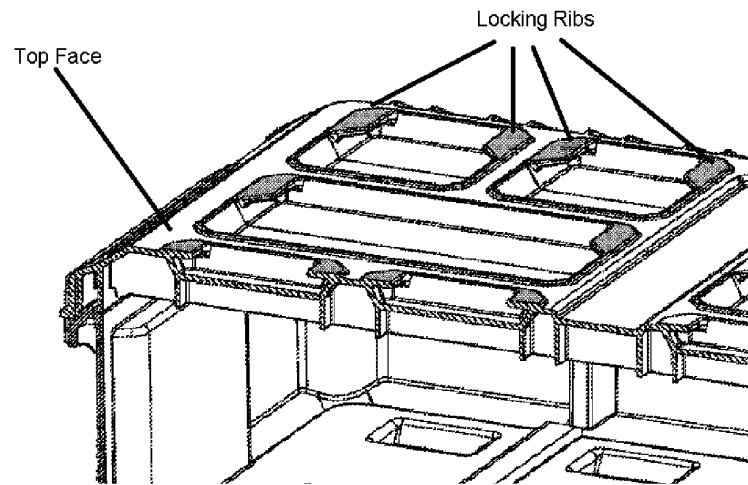


Diagram 1 - Detail from Figure 9D showing locking ribs extending ABOVE the top face. No "elevated surface that extends from each of the sidewalls" is shown in the drawings or discussed in the Written Description.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

6. The amendments filed 2/18/2021 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows:

7. The Original Specification provides no positive description as to how the mounting apertures (298) are configured to secure the platform (300) to the utility module as discussed in Claim 9.

8. Furthermore, there is no depiction, identification, or information relating to an “elevated surface” that is planar with an upper surface of each of the locking ribs as discussed in Claim 22.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

9. Claims 9, 13, 14, 21-23 rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for applications subject to pre-AIA 35 U.S.C. 112, the inventor(s), at the time the application was filed, had possession of the claimed invention.

10. Regarding Claim 9, the claim recites “a plurality of mounting apertures configured to secure the coupling platform to the stackable utility module.” This is not enabled.

11. There is NO explanation how the ‘plurality of mounting apertures’ are configured to secure the coupling platform (300) to the **stackable utility modules** such as containers (22, 24, 26, and 28). The Specification Paragraphs 00237-238 quite clearly identifies the ‘bolt eyes’ being used to couple the platform to a truck bed or wall. Nowhere is the coupling platform disclosed to attach to a stackable module using the ‘bolt eyes’. The Specification makes clear that the platform attaches to the utility module via ***couplers***, not any apertures.

12. In the Remarks and Arguments of 2/18/2021, Applicant states that adequate support is provided in the original written description by noting that Paragraph 237 states that “rigid coupling platform 300 [is] configured with bolt eyes 298 for securing to *any desired surface*. (no italics in original).” Applicant respectfully submits that the rest of the specification and figures are filled with numerous examples of surfaces of stackable utility modules to which the coupling platform may be coupled.

13. The Examiner disagrees.

14. There is absolutely NO support for the claimed subject matter in which COUPLING is achieved by the ‘bolt eyes’ 298. Such bolt eyes would require a separate fastener to destructively be nailed or screwed to a stackable utility module below it in order to achieve such a ‘coupling’. By stating that ‘any desired surface’ may be used is entirely different from identifying “coupling” using a specific structural feature.

15. The claimed subject matter MUST be shown or CANCELED.

16. Claim 22 recites an “elevated surface”. How such an elevated surface is configured or is planar with the upper surface of each of the locking ribs is not shown or enabled. Indeed, the term “elevated surface” is entirely absent from the written description. This feature must be disclosed in the original written description or drawings, else it must be considered new matter.

The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

17. Claims 9, 13, 14, and 21-23 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor (or for applications subject to pre-AIA 35 U.S.C. 112, the applicant), regards as the invention.

18. As discussed above, there is no support showing, describing, or identifying how the mounting apertures (298) are configured to secure the coupling platform to the stackable utility module. There is no corresponding mounting aperture in a similar location in any other module that would provide such coupling. It is the Examiner’s opinion that such mounting apertures provide a means to accept a separate mechanical fastener, such as a nail, bolt, or screw to allow mounting to a stationary surface as discussed in Applicant’s Specification Paragraph 237 and 238. There is NO support or explanation how such mounting apertures provide coupling with a stackable utility module.

19. For the purposes of examination, it will be assumed that the mounting apertures (298) provide means to accept fasteners as is commonly practiced in the art.

20. Regarding Claim 22, as discussed above, no elevated surface that extends from each of the sidewalls planar with an upper surface of each of the locking ribs is shown. How such an elevated surface is configured or structured is therefore non-enabled. Due to this non-enablement of the elevated surface, the claim is also indefinite, as it is unclear what constitutes this elevated surface. For the purposes of examination, it will be assumed that any possible surface adjacent to the rib may suffice to meet the limitations of the claim.

21. Claim 23 recites the limitation "the upper surface" and "the lower surface" in Lines 1 and 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

22. Claims 9 and 13 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Gates (US 6637707).

23. Regarding Claim 9, Gates discloses coupling platform for a stackable utility module configured to engage male couplers (32) on an adjacent utility module. Gates discloses one or more female couplers (24) each comprising a pair of locking ribs, two sidewalls and a depressed locking location (beneath tab 46), the pair of locking ribs (26) extending above a surface of the depressed locking location and substantially parallel to a sliding path, wherein the male couplers of the adjacent utility module are configured to be engaged between the pair of locking ribs and the surface of the depressed locking

location of the one or more female couplers. Each of the female couplers further comprises a back wall that extends between the sidewalls as shown in Figure 1, wherein a first rib of the pair of locking ribs extends from the back wall and from a first sidewall of the two sidewalls, and a second rib of the pair of locking ribs extends from the back wall and from a second sidewall of the two sidewalls. Gates also discloses comprising a plurality of mounting apertures (16) configured to secure the coupling platform to a surface by screws (20).

24. Regarding Claim 13, Gates discloses the first rib extends a first distance from the first sidewall and the first rib extends a second distance from the back wall that is more than twice as far as the first distance.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

25. **Claims 9, 13, 14 and 21-23 are rejected under 35 U.S.C. 103 as being unpatentable over Ko (US 2014/0161518) in view of Johnson (US 5433416).**

26. Regarding Claim 9, Ko discloses a coupling platform that is described as being used for module furniture systems. A person having ordinary skill in the art would recognize that such couplers can also be used for connecting stackable utility module. Ko discloses a female coupler (20) with a pair of locking ribs (23A). The coupler includes two sidewalls and a depressed locking location, the pair of locking ribs extending above a surface of the depressed locking location and substantially parallel to a sliding path. The male couplers (10) of an adjacent utility module are configured to be engaged between the pair of locking ribs and the surface of the depressed locking

location of the one or more female couplers. Each of the female couplers further comprising a back wall that extends between the sidewalls, wherein a first rib of the pair of locking ribs extends from the back wall and from a first sidewall of the two sidewalls, and a second rib of the pair of locking ribs extends from the back wall and from a second sidewall of the two sidewalls. Ko discloses a plurality of apertures as shown in Diagram 2 below. Ko also discloses that screws are used to secure the hardware couplers to the utility modules (Paragraph 0053). However, Ko does not explicitly disclose these apertures as mounting apertures configured to secure the coupling platform to a stationary surface.

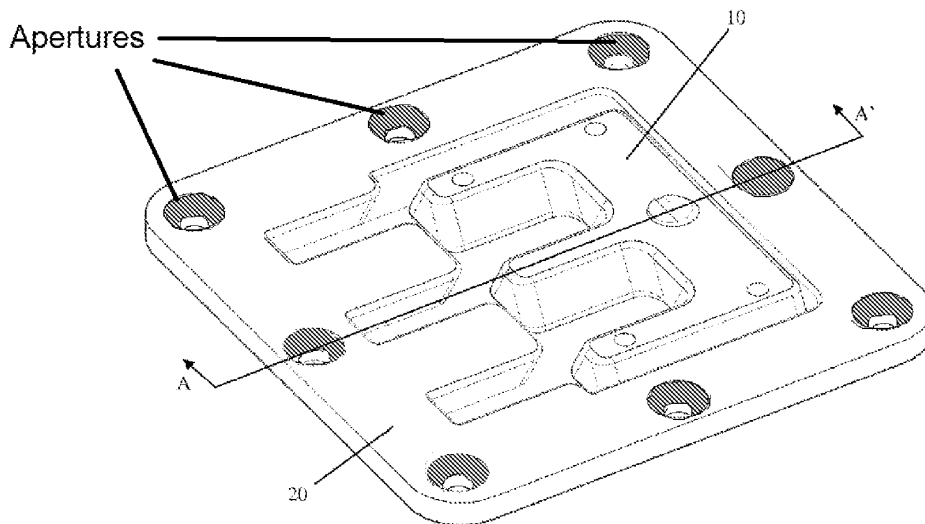


Fig. 1B

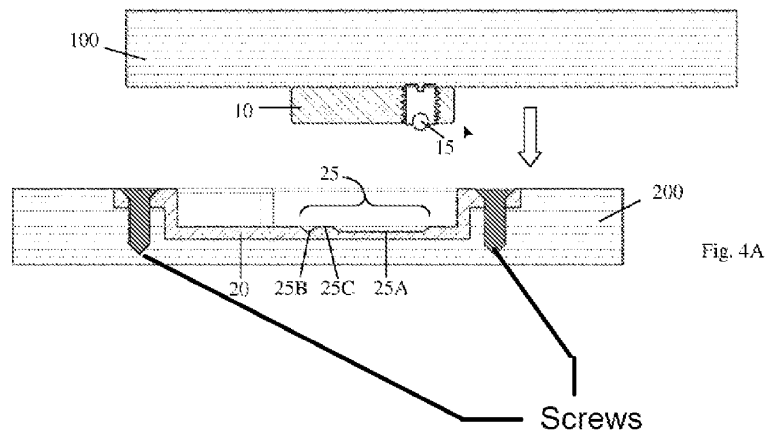


Fig. 4A

Diagram 2 - Ko (US 2014/0161518) - Figures 1B and 4A showing mounting plate apertures and screw attachment locations

27. However, as disclosed in the similar dovetail arrangement seen in Johnson, these apertures (28) are typically used for receiving appropriate fastening devices, such as screws, for mounting the coupling plate to a surface (Col. 3 Lines 38-41). A person

having ordinary skill in the art would recognize and find obvious from the description in Ko and the explanation given in Johnson that the unnumbered apertures of Ko would be used to secure the coupling platform to a stationary surface as is commonly practiced in the art.

28. Regarding Claim 13, Ko discloses the first rib extends a first distance from the first sidewall and the first rib extends a second distance from the back wall that is more than twice as far as the first distance.

29. Regarding Claim 14, Ko discloses a panel (200) comprising a top face from which the one or more female couplers extend. While Ko does not disclose the exact dimensions of the panel or the couplers, a person having ordinary skill in the art would be capable of modifying the relative sizes of the coupler and the panel in order to suit different modules of varying sizes. Applicant has not disclosed that female couplers comprising at least 50% of an area of the top face serves a particular purpose or achieves a particular result. Therefore, one having ordinary skill in the art would recognize that modifying the relative sizes of the coupler and the associated panel may be varied as an obvious variation in attaching differently sized modules with appropriately sized connectors that would produce no unexpected results.

30. Regarding Claim 21, Ko discloses that multiple female hardware pieces may be provided on one surface and corresponding male hardware pieces may be provided on corresponding locations to increase the strength of the connectors (Paragraph 0050). Furthermore, the modules may be combined in different locations for customized configurations based on the user's need (Paragraph 0053). Therefore, one having ordinary skill in the art would recognize that an arrangement of two or more female

couplers along a plurality of rows and a plurality of columns perpendicular to the plurality of rows is an obvious variation in the placement of such connectors that a person having ordinary skill in the art would be capable of modifying in order to achieve a desired connection strength at a particular location.

31. Regarding Claim 22, Ko discloses a top face that is planar with an upper surface of the locking ribs in order to form cavities that correctly position and align the hardware pieces (Paragraph 0053).

32. Regarding Claim 23, Ko discloses each locking rib has a flat upper surface that is parallel to and faces away from the lower surface of the locking rib at the flat depressed surface. However, please also see Liserre (US 5653366) Element 46 which shows a similar dovetail mating arrangement with parallel top and bottom surfaces of a horizontally extending rib in addition to the previously cited rib structure of Deutsch (US 5628443).

33. **Claims 9, 13, and 23 are rejected under 35 U.S.C. 103 as being unpatentable over Deutsch (US 5628443) in view of Hudson (US 4805859).**

34. Regarding Claim 9, Deutsch discloses a coupling platform (12) for a stackable utility module (30) configured to engage male couplers (24, 26, 42, and 44) on an adjacent utility module. Deutsch discloses the coupling platform comprises one or more female couplers (20 and 22) each comprising a pair of locking ribs (D and D'), two sidewalls (C and C') and a depressed locking location relative to the ribs between slot forming members A and A' (Figure 3). Deutsch further discloses the pair of locking ribs extending above a surface of the depressed locking location and substantially parallel to a sliding path of the T-shaped bracket 26. The male couplers of the adjacent utility

module are configured to be engaged between the pair of locking ribs and the surface of the depressed locking location of the one or more female couplers. Deutsch discloses the female couplers further includes a back wall (stop Z) that extends between the sidewalls. A first rib of the pair of locking ribs extends from the back wall and a first sidewall of the two sidewalls, and a second rib of the pair of locking ribs extends from the back wall and a second sidewall of the two sidewalls.

35. Deutsch does not disclose a plurality of apertures configured to accept fasteners for connection to a stationary surface.

36. Hudson discloses a similar platform (2) with slide-mating connection rails (14) configured to attach to a container (4) wherein the frame (2) includes a plurality of apertures (12). Deutsch and Hudson are analogous inventions in the art of container and platform attachment means.

37. It would have been obvious for one having ordinary skill in the art before the effective filing date of the claimed invention to modify the platform of Deutsch with the apertures disclosed in Hudson in order to attach the platform to a support or the frame of a vessel or vehicle (Col. 4 Lines 33-36).

38. Regarding Claim 13, Deutsch discloses the first rib extends a first distance from the first sidewall and the first rib extends a second distance from the back wall that is more than twice as far as the first distance.

39. Regarding Claim 23, Deutsch discloses the upper surface of the locking rib is parallel to and faces away from the lower surface of the locking rib.

Response to Arguments

40. Applicant's arguments with respect to claim 9 have been considered but are moot because the new ground of rejection does not rely on any reference applied in the prior rejection of record for any teaching or matter specifically challenged in the argument.

41. Regarding Claim 9, Applicant argues against the modification of Deutsch by Hudson. Applicant believes that Hudson expressly teaches away from being combined with "T" channels as disclosed in Deutsch. Applicant cites Hudson as noting that T channels are "susceptible...to being damaged or bent so as to be unusable as an interlocking channel."

42. The Examiner disagrees.

43. In response to applicant's argument that the mounting apertures of Hudson cannot be used with the T-channel connection seen in Deutsch, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

44. In the present case, Hudson DOES NOT prohibit usage of mounting apertures with T-channel connectors. The full text of Hudson Col. 2 Lines 24-34 states reads as follows:

More elaborate structures such as, for example, the interlocking “T” rail and channel shown in Care, U.S. Pat. No. 2,476,134 for securing a fare box on a bus, a similar if milder environment, are unsuitable for use on boats because of the injury producing potential of an extended permanently affixed channel when no tackle box is installed. In addition, “T” channels are susceptible, unless they are made so substantially large that they are unsuitable obstacles, to being damaged or bent so as to be unusable as an interlocking channel.

45. Therefore, there is no absolute exclusion against incorporating the mounting apertures of Hudson into the platform of Deutsch. Hudson merely qualifies that in applications that involve the harsh environments aboard boats, large T-channels should be used, as smaller T-channels may be susceptible to damage. Therefore, one having ordinary skill in the art would still be directed to utilize mounting apertures as disclosed in Hudson in as an obvious means to provide a fastening arrangement to a vehicle frame as discussed in Col. 4 Lines 33-36.

46. Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections.

Conclusion

The following are suggested formats for either a Certificate of Mailing or Certificate of Transmission under 37 CFR 1.8(a). The certification may be included with

all correspondence concerning this application or proceeding to establish a date of mailing or transmission under 37 CFR 1.8(a). Proper use of this procedure will result in such communication being considered as timely if the established date is within the required period for reply. The Certificate should be signed by the individual actually depositing or transmitting the correspondence or by an individual who, upon information and belief, expects the correspondence to be mailed or transmitted in the normal course of business by another no later than the date indicated.

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Please refer to 37 CFR 1.6(a) (4), 1.6(d) and 1.8(a) (2) for filing limitations
concerning transmissions via EFS-Web, facsimile transmissions and mailing,
respectively.

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

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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

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

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

<i>Notice of References Cited</i>	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-5433416-A	07-1995	Johnson; Ruben R.	B65D23/003	248/475.1
*	B	US-6637707-B1	10-2003	Gates; George D.	A47B81/005	211/64
*	C	US-D753982-S	04-2016	Guirlinger; Edward G.	F16B12/24	D8/349
*	D	US-20170138382-A1	05-2017	KO; Kenneth H.	F16B12/24	1/1
*	E	US-20180290288-A1	10-2018	BRUNNER; Yaron	B25H1/04	1/1
*	F	US-20190225371-A1	07-2019	Hoppe; Christopher S.	B65D21/0223	1/1
*	G	US-D898320-S	10-2020	Brunner; Yaron	B65D23/003	D34/23
	H					
	I					
	J					
	K					
	L					
	M					

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
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	O					
	P					
	Q					
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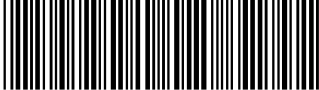
*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	X	

*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. 20210304

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	11/26/2020								
	1	N								
	2	N								
	3	N								
	4	N								
	5	N								
	6	N								
	7	N								
	8	N								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	N								
	16	N								
	17	N								
	18	N								
	19	N								
	20	N								

<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

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

* 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	
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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

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 7, 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	3	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

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
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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			
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/G.R.W/	A1	Inter Partes Review No. 2021-00373, "Petition for Inter Partes Review of U.S. Pat. No. 10,583,962," filed January 5, 2021, 198 pages.	
/G.R.W/	A2	Exhibit 1001 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 64 pages.	
/G.R.W/	A3	Exhibit 1002 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 75 pages.	
/G.R.W/	A4	Exhibit 1003 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 13 pages.	
/G.R.W/	A5	Exhibit 1004 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 18 pages.	

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	03/04/2021
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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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				Filing Date	October 6, 2020
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	2	of	3	Attorney Docket Number	066749-2792

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/G.R.W/	A6	Exhibit 1005 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 9 pages.	
/G.R.W/	A7	Exhibit 1006 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 176 pages.	
/G.R.W/	A8	Exhibit 1007 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 22 pages.	
/G.R.W/	A9	Exhibit 1008 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	
/G.R.W/	A10	Exhibit 1009 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 24 pages.	
/G.R.W/	A11	Exhibit 1010 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 19 pages.	
/G.R.W/	A12	Exhibit 1011 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 26 pages.	
/G.R.W/	A13	Exhibit 1012 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 3 pages.	
/G.R.W/	A14	Exhibit 1013 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 168 pages.	
/G.R.W/	A15	Exhibit 1014 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, PART A pages 1-166 of 481 pages.	
/G.R.W/	A16	Exhibit 1014 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, PART B pages 167-320 of 481 pages.	
/G.R.W/	A17	Exhibit 1014 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, PART C pages 321-481 of 481 pages.	
/G.R.W/	A18	Exhibit 1015 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	03/04/2021
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 7, 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	3	of	3	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
/G.R.W/	A19	Exhibit 1016 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 242 pages.	
/G.R.W/	A20	Exhibit 1017 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	
/G.R.W/	A21	Exhibit 1018 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 250 pages.	
/G.R.W/	A22	Exhibit 1019 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 44 pages.	
/G.R.W/	A23	Exhibit 1020 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 5 pages.	
/G.R.W/	A24	Exhibit 1021 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 1 page.	
/G.R.W/	A25	Exhibit 1022 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 1 page.	
/G.R.W/	A26	Exhibit 1023 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 24 pages.	
/G.R.W/	A27	Exhibit 1024 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 28 pages.	

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	03/04/2021
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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" "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.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:11
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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:27

		"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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 17:29

		"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" "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" "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"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:26

		"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.				
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" "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.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:46
S83	20	("0488851" "1045932" "20020070136" "20020104709" "20050258002" "5370263"	US-PGPUB;	OR	OFF	2020/11/24 22:48

		"5433413" "5673885" "5782314" "5873433" "5950972" "7032711" "7063187").PN. OR ("7658265").URPN.	USPAT; USOCR			
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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 22:57

		"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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:06

		"6015050" "6027188" "6050657" "6488346").PN. OR ("7100999").URPN.				
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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/24 23:18

		"6209730" "6276034" "6299001" "6311854" "6325223" "6349507" "6363645" "6591996").PN. OR ("6945414").URPN.				
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;	OR	OFF	2020/11/25 19:00

			USPAT; USOCR			
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"	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 19:58

		"5131576" "5184763" "5321904" "5419473").PN. OR ("5628443").URPN.				
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-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/11/25 23:22

	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 (US-10434638-\$ or US-2970358-\$ or US-				
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	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- 7367571-\$ or US-7263742-\$ or US-7212840-\$			
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	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-\$ or US-0055534-\$ or US-0052276-\$ or US-				
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		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; USPAT; USOCR	OR	OFF	2020/11/25 23:23
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-	US- PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 21:57

	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-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-				
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	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-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-\$				
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		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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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-PGPUB; USPAT; USOCR	OR	OFF	2020/11/26 22:05

	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-\$ 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-				
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	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 (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-			
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	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-\$ 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-\$			
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		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

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3/8/2021 11:32:13 PM

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875			Application or Docket Number 17/064,371		Filing Date 10/06/2020		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO								
APPLICATION AS FILED - PART I								
		(Column 1)	(Column 2)					
FOR		NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A	N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =	*		x \$100 =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*		x \$480 =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))								
* If the difference in column 1 is less than zero, enter "0" in column 2.					TOTAL			
APPLICATION AS AMENDED - PART II								
		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	02/18/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)
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	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 0	x \$480 =		0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
						TOTAL ADD'L FEE		0
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)
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	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =		
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
						TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE		
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/ANGELONA D JONES/		
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".								
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.								

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

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

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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
	A1	2012/0074022	03-29-2012	McTavish et al.	
	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		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.

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/Andrea Dietzel		
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:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
Total in USD (\$)				260

Electronic Acknowledgement Receipt	
EFS ID:	41955358
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/Andrea Dietzel
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2792
Receipt Date:	18-FEB-2021
Filing Date:	06-OCT-2020
Time Stamp:	15:03:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$260
RAM confirmation Number	E20212HF04110444
Deposit Account	180882
Authorized User	Andrea Dietzel
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		066749-2792_Amendment.pdf	148192	yes	16
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	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		8	16	
	Claims		2	7	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
Warnings:					
Information:					
2	Transmittal Letter	066749-2792_IDS_Transmittal.pdf	81729	no	2
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Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	066749-2792_SB08.pdf	92575	no	1
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Total Files Size (in bytes):			353191		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

REMARKS

This reply is intended to be completely responsive to the Non-Final Office Action dated December 1, 2020.

Status

Claims 1-20 are pending in this application. Claims 9-14 were rejected, and claims 1-8 and 15-20 are withdrawn.

With this amendment, claims 9 and 13 are amended, claims 10-12 are cancelled, and new claims 21-23 are added.

Applicant believes that each of the rejections raised by the Examiner has been addressed and the application is in condition for allowance. Reconsideration and allowance of the application is respectfully requested.

Restriction Requirement

Applicant affirms the election of Examiner's Species b, claims 9-14, for prosecution in the present application. With this reply, non-elected claims 1-8 and 15-20 have been withdrawn without prejudice. Applicant reserves the right to pursue the subject matter of non-elected claims 1-8 and 15-20 via a divisional or other continuing application.

Drawing Objections

On pages 4-5 of the Office Action, the Examiner objected to the drawings for not showing every feature of the invention specified in the claims. Specifically, "the bolt eyes, or apertures recited in Claims 10 and 11 which secures the coupling platform **to the** stackable utility module must be shown or the feature(s) canceled from the claim(s)." Office Action, page 4 (emphasis in original).

Without conceding the propriety of this rejection, to expedite prosecution in this application claims 10 and 11 have been cancelled and claim 9 has been amended to recite “a plurality of mounting apertures.” This amendment to claim 9 is consistent with the Examiner’s suggestion to recite “mounting apertures.” Office Action, page 7. Support for this feature can be found at least at paragraphs 237-238 and FIG. 18A.

In regard the plurality of mounting apertures securing “the coupling platform to the stackable utility module,” which is recited in claim 9, Applicant respectfully submits that support for this feature can be found at least at paragraph 237, which recites in relevant part: “rigid coupling platform 300 ... [is] configured with bolt eyes 298 for securing to any desired surface.” Specification, paragraph 237 (emphasis added). Applicant respectfully submits that the rest of the specification and figures are filled with numerous examples of surfaces of stackable utility modules to which the coupling platform may be coupled. Therefore, Applicant submits that every feature recited in the claims is shown in the drawings.

Accordingly, Applicant respectfully requests withdrawal of the objection to the drawings.

Claim Rejections - 35 U.S.C. § 112

On pages 5-8 of the Office Action, the Examiner rejected claims 10 and 11 under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement.

Without conceding the propriety of this rejection, to expedite prosecution in this application claims 10 and 11 have been cancelled and claim 9 has been amended to recite “a plurality of mounting apertures.” This amendment to claim 9 is consistent with the Examiner’s suggestion to recite “mounting apertures.” Support for this feature can be found at least at paragraphs 237-238 and FIG. 18A.

The Examiner also rejected claims 10 and 11 in view of the coupling platform being coupled “to the stackable utility modules.” Office Action, page 7. According to the Examiner,

the specification identifies the bolt eyes “being used to couple the platform to a truck bed or wall.” Office Action, page 8.

Applicant respectfully submits that support for the coupling platform being coupled “to the stackable utility modules” can be found at least at paragraph 237, which recites in relevant part: “rigid coupling platform 300 ... [is] configured with bolt eyes 298 for securing to any desired surface.” Specification, paragraph 237 (emphasis added). The examples of coupling the coupling platform to a truck bed or wall in paragraph 237 are exemplary surfaces, not a comprehensive list of the surfaces to which the platform can be coupled. Applicant respectfully submits that the rest of the specification and figures are filled with numerous examples of surfaces of stackable utility modules to which the coupling platform may be coupled.

Accordingly, Applicant respectfully submits that claim 9 satisfies the enablement requirement under 35 U.S.C. § 112(a). Further, the rejection of claims 10 and 11 is moot because claims 10 and 11 have been cancelled.

II. Rejection of claims 10 and 11 under 35 U.S.C. § 112, second paragraph, as being indefinite

On page 8 of the Office Action, the Examiner rejected claims 10 and 11 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter in regard to the phrases “bolt eye” (claim 10) and “plurality of apertures” (claim 11).

Without conceding the propriety of this rejection, to expedite prosecution in this application claims 10 and 11 have been cancelled and claim 9 has been amended to recite “a plurality of mounting apertures.” This amendment to claim 9 is consistent with the Examiner’s suggestion to recite “mounting apertures.” Support for this feature can be found at least at paragraphs 237-238 and FIG. 18A.

Accordingly, Applicant respectfully submits that claim 9 is sufficiently definite and satisfies the requirements of under 35 U.S.C. § 112(b). Further, the rejection of claims 10 and 11 is moot because claims 10 and 11 have been cancelled.

III. Rejection of claims 10 and 11 under 35 U.S.C. § 112, second paragraph, as being incomplete

On page 9 of the Office Action, the Examiner rejected claims 10 and 11 under 35 U.S.C. § 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements in regard to the phrases “bolt eye” (claim 10) and “plurality of apertures” (claim 11).

Without conceding the propriety of this rejection, to expedite prosecution in this application claims 10 and 11 have been cancelled and claim 9 has been amended to recite “a plurality of mounting apertures.” This amendment to claim 9 is consistent with the Examiner’s suggestion to recite “mounting apertures.” Support for this feature can be found at least at paragraphs 237-238 and FIG. 18A.

The Examiner also rejected claims 10 and 11 in view of the coupling platform being coupled “to the stackable utility modules.” Office Action, page 9. As noted above, Applicant respectfully submits that support for this feature can be found at least at paragraph 237, which recites in relevant part: “rigid coupling platform 300 ... [is] configured with bolt eyes 298 for securing *to any desired surface*.” Specification, paragraph 237 (emphasis added). Applicant respectfully submits that the rest of the specification and figures are filled with numerous examples of surfaces of stackable utility modules to which the coupling platform may be coupled.

Accordingly, Applicant respectfully submits that claim 9 does not omit essential structural features and therefore satisfies the requirements of 35 U.S.C. § 112(b). Further, the rejection of claims 10 and 11 is moot because claims 10 and 11 have been cancelled.

Claim Rejections - 35 U.S.C. § 102(a)(1)

I. Rejection of claims 9, 12 and 13 under 35 U.S.C. § 102(a)(1) as being anticipated by Deutsch

On page 10 of the Office Action, the Examiner rejected claims 9, 12 and 13 under 35 U.S.C. § 102(a)(1) as being anticipated by Deutsch, U.S. Patent No. 5,628,443.

Claim 9 as amended recites “a plurality of mounting apertures configured to secure the coupling platform to the stackable utility module.” The Examiner agrees that Deutsch does *not* disclose apertures configured to secure the coupling platform to a stationary surface. Office Action, page 13.

Accordingly, Applicant respectfully asserts that independent claim 9, and dependent claim 13, which depends from claim 9, are not anticipated by Deutsch under 35 U.S.C. § 102(a)(1). The rejection of claim 12 is moot because claim 12 is cancelled.

To remedy the deficiencies of Deutsch, the Examiner cites to Hudson. Office Action, page 13. Applicant addresses the proposed modification of Deutsch according to Hudson below, in regard to the obviousness rejection of former claim 11.

II. Rejection of claims 9-11 under 35 U.S.C. § 102(a)(1) as being anticipated by Ruggerone

On pages 10-12 of the Office Action, the Examiner rejected claims 9-11 under 35 U.S.C. § 102(a)(1) as being anticipated by Ruggerone, U.S. Patent No. 3,743,372.

Claim 9 as amended recites “each of the female couplers further comprising a back wall that extends between the sidewalls, wherein a first rib of the pair of locking ribs extends from the back wall and a first sidewall of the two sidewalls, and a second rib of the pair of locking ribs extends from the back wall and a second sidewall of the two sidewalls.” This feature was previously recited in claim 12.

According to the MPEP, to anticipate a claim “The identical invention must be shown in as complete detail as is contained in the ... claim.” See MPEP § 2131 (citing *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989)). Applicant submits that Ruggerone does not anticipate claim 9 as amended at least because Ruggerone does not disclose “a back wall that extends between the sidewalls,” which claim 9 as amended recites.

Accordingly, Applicant respectfully asserts that independent claim 9 as amended is not anticipated by Ruggerone under 35 U.S.C. § 102(a)(1). Further, the rejection of claims 10 and 11 is moot because claims 10 and 11 have been cancelled.

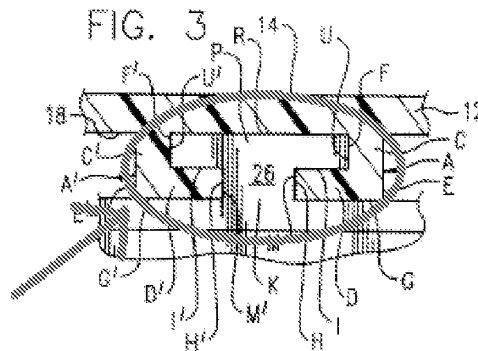
Claim Rejections - 35 U.S.C. § 103

On page 13 of the Office Action, the Examiner rejected claim 10 and 11 under 35 U.S.C. § 103 as being unpatentable over Deutsch and Hudson, U.S. Patent No. 4,805,859.

Claim 9 as amended recites “a plurality of mounting apertures configured to secure the coupling platform to the stackable utility module.” The Examiner agrees Deutsch fails to disclose apertures configured to secure the coupling platform to a stationary surface. Office Action, page 13.

To remedy the deficiencies of Deutsch, the Examiner cites to Hudson. Office Action, page 13. Applicant submits that Hudson teaches away from the modification proposed by the Examiner.

Hudson expressly teaches away from being combined with “T” channels because “T” channels “are susceptible ... to being damaged or bent so as to be unusable as an interlocking channel.” Hudson, col. 2, lines 30-34. As a reminder, Deutsch uses the “T” channels that Hudson expressly teaches against. FIG. 3 in Deutsch is copied and annotated below.



Deutsch, FIG. 3.

Thus, modifying Deutsch according to Hudson is improper at least because Hudson expressly teaches away from the modified product proposed by the Examiner. MPEP 2145(X)(D).

Accordingly, Applicant respectfully asserts that independent claim 9 is patentable over Deutsch and Hudson under 35 U.S.C. § 103. Further, Applicant submits that the cancellation of claims 10 and 11 has rendered the rejection of claims 10 and 11 moot.

Allowability of Claim 14

Applicant notes that claim 14 was not rejected. Accordingly, Applicant respectfully submits that claim 14 recites allowable subject matter.

New Claims

Applicant has added new dependent claims 21-23 to present claims of varying scope. No new matter has been added. Exemplary support for the new claim 21-23 may be found at FIG. 18A of the application as originally filed. New claims 21 and 23 depend from independent claim 9, and new claim 22 depends from dependent claim 14, which depends from independent claim 9. Applicant respectfully asserts that new claims 21-23 are patentable for at least the same reasons set forth above regarding independent claim 9.

Conclusion

Applicant believes that the present application is in condition for allowance. Favorable reconsideration of the application is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

It should be noted that, for the sake of clarity and simplicity, Applicant's remarks have focused on the rejections of the independent claims set forth in the Office Action with the understanding that the dependent claims are patentable for at least the same reasons as the independent claims. Further, in addressing the Examiner's rejections, Applicant's remarks have set forth only some of the available arguments for patentability of the rejected claims. Applicant expressly reserves the right to argue the patentability of all claims separately and to provide new, different, and/or additional arguments for patentability not set forth herein, including, but not limited to, the failure of cited references to disclose, teach, or suggest other elements of the claims, the lack of motivation to combine cited references, teachings away from the combination of cited references, the failure of references to qualify as prior art or improper combination of the cited references, in this or any future proceedings.

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. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Respectfully submitted,

Date February 18, 2021

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

Amendments to the Claims:

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

Listing of Claims:

1. (Withdrawn) A utility module assembly comprising:
a first utility module comprising:
a female coupler extending from a first face of the first utility module, the female coupler comprising two sidewalls, a back wall, and a first rib, the back wall extending between the two sidewalls, the first rib extending in a first direction above a surface of a depressed locking location; and
a second utility module comprising:
a male coupler extending from a second face of the second utility module, the male coupler comprising a tongue extending in a second direction opposite the first direction, the tongue of the second utility module is configured for arresting engagement between the first rib and the surface of the depressed locking location of the first utility module.
2. (Withdrawn) The utility module assembly of claim 1, wherein the female coupler and the male coupler engage when the first and second utility modules are slid along a sliding path defined by the first rib and the tongue.
3. (Withdrawn) The utility module assembly of claim 2, the female coupler comprising a second rib that extends above the depressed locking location.
4. (Withdrawn) The utility module assembly of claim 3, wherein the first rib and the second rib extend from a rear portion of the depressed locking location substantially parallel to the sliding path.

5. (Withdrawn) The utility module assembly of claim 4, wherein the first rib extends from the back wall and a first sidewall of the two sidewalls, and the second rib extends from the back wall and a second sidewall of the two sidewalls opposite the first sidewall.
6. (Withdrawn) The utility module assembly of claim 1,
the first utility module further comprising:
a second male coupler extending from a second face of the first utility module, the second male coupler including a tongue that is offset from the second face of the first utility module and extending in the second direction, the tongue of the first utility module configured to engage a rib of a third utility module, the first and third utility modules entering an engaged position by the third utility module sliding with respect to the first utility module.
7. (Withdrawn) The utility module assembly of claim 1, wherein the male coupler extends from a bottom face of the first utility module, and the female coupler extends from a top face of the second utility module.
8. (Withdrawn) The utility module assembly of claim 1, wherein the first face comprises a plurality of depressed locking locations, one of which the first rib extends above, and wherein the plurality of depressed locking locations of the first face comprise at least 50% of an area of the first face.

9. (Currently Amended) A coupling platform for a stackable utility module configured to engage male couplers on an adjacent utility module comprising:

one or more female couplers each comprising a pair of locking ribs, two sidewalls and a depressed locking location, the pair of locking ribs extending above a surface of the depressed locking location and substantially parallel to a sliding path, wherein the male couplers of the adjacent utility module are configured to be engaged between the pair of locking ribs and the surface of the depressed locking location of the one or more female couplers, wherein each of the female couplers further comprising a back wall that extends between the sidewalls, wherein a first rib of the pair of locking ribs extends from the back wall and from a first sidewall of the two sidewalls, and a second rib of the pair of locking ribs extends from the back wall and from a second sidewall of the two sidewalls; and

comprising a plurality of mounting apertures configured to secure the coupling platform to the stackable utility module.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Currently Amended) The coupling platform of claim 9 ~~claim 12~~, wherein the first rib extends a first distance from the first sidewall and the first rib extends a second distance from the back wall that is more than twice as far as the first distance.

14. (Original) The coupling platform of claim 9, further comprising a panel comprising a top face from which the one or more female couplers extend, wherein the depressed locking locations of the one or more female couplers comprise at least 50% of an area of the top face.

15. (Withdrawn) A platform for a stackable utility module configured to engage a female coupler on an adjacent utility module comprising:

a male coupler configured to arrestingly engage a space between a locking rib of the female coupler and a depressed surface of the female coupler, the male coupler comprising:

at least one locking tongue extending along a sliding path in a second direction opposite a first direction that the locking rib of the female coupler extends.

16. (Withdrawn) The platform of claim 15, the male coupler comprising:

a central body that extends downward from the platform;

wherein the at least one locking tongue comprises:

a first locking tongue offset from the platform that protrudes from the central body in a third direction; and

a second locking tongue offset from the platform that protrudes from the central body in a fourth direction opposite the third direction.

17. (Withdrawn) The platform of claim 16, wherein the first locking tongue extends from a front of the male coupler a first distance that is more than twice as far as the first locking tongue protrudes from the central body, and wherein the second locking tongue extends from the front of the male coupler a second distance that is more than twice as far as the second locking tongue protrudes from the central body.

18. (Withdrawn) A male coupler for a stackable utility module configured to engage a female coupler on an adjacent utility module comprising:

a protrusion configured with at least one locking tongue extending along a sliding path in a second direction opposite a first direction that a locking rib of the female coupler extends, the at least one locking tongue configured for arresting engagement between a locking rib of the female coupler and a depressed surface of the female coupler.

19. (Withdrawn) The male coupler of claim 18 further comprising a central body, wherein the at least one locking tongue comprises:

a first locking tongue that protrudes from the central body in a third direction; and

a second locking tongue that protrudes from the central body in a fourth direction opposite the third direction.

20. (Withdrawn) The male coupler of claim 19, wherein the first locking tongue extends from a front of the male coupler a first distance that is more than twice as far as the first locking tongue protrudes from the central body, and wherein the second locking tongue extends from the front of the male coupler a second distance that is more than twice as far as the second locking tongue protrudes from the central body.

21. (New) The coupling platform of claim 9, wherein the one or more female couplers are arranged along a plurality of rows and a plurality of columns perpendicular to the plurality of rows, each row comprises two or more female couplers and each column comprises two or more female couplers.

22. (New) The coupling platform of claim 14, the top face comprising an elevated surface that extends from each of the sidewalls, wherein the elevated surface is planar with an upper surface of each of the locking ribs.

23. (New) The coupling platform of claim 9, wherein for each locking rib, the upper surface of the locking rib is parallel to and faces away from the lower surface of the locking rib.

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

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

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.111

This communication is responsive to the Non-Final Office Action dated December 1, 2020, concerning the above-referenced patent application.

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

Remarks begin on page 8 of this document.

Please amend the application as follows:

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 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(c), before the mailing date of any of a final action under 37 CFR § 1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application.

FEES

The IDS Fee of \$260.00 under 37 CFR 1.17(p) is being paid via Deposit Account No. 18-0882 via EFS-web.

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.

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. If any extensions of time are needed for timely acceptance of papers submitted herewith, applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Respectfully submitted,

Date February 18, 2021

By /Derek H. Campbell/

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/064,371	10/06/2020	Yaron Brunner	066749-2792

CONFIRMATION NO. 4794

PUBLICATION NOTICE



142078
Reinhart (Milwaukee Tool)
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SUITE 2100
MILWAUKEE, WI 53202

Title:Utility Assembly and Coupling Mechanism

Publication No.US-2021-0016928-A1

Publication Date:01/21/2021

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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

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

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 7, 2021 <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					
Attorney Docket Number	066749-2792					
Sheet	1	of	3			

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

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			
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	A1	Inter Partes Review No. 2021-00373, "Petition for Inter Partes Review of U.S. Pat. No. 10,583,962," filed January 5, 2021, 198 pages.	
	A2	Exhibit 1001 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 64 pages.	
	A3	Exhibit 1002 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 75 pages.	
	A4	Exhibit 1003 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 13 pages.	
	A5	Exhibit 1004 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 18 pages.	

Examiner Signature		Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 7, 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	2	of	3	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
	A6	Exhibit 1005 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 9 pages.	
	A7	Exhibit 1006 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 176 pages.	
	A8	Exhibit 1007 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 22 pages.	
	A9	Exhibit 1008 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	
	A10	Exhibit 1009 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 24 pages.	
	A11	Exhibit 1010 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 19 pages.	
	A12	Exhibit 1011 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 26 pages.	
	A13	Exhibit 1012 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 3 pages.	
	A14	Exhibit 1013 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 168 pages.	
	A15	Exhibit 1014 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, PART A pages 1-166 of 481 pages.	
	A16	Exhibit 1014 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, PART B pages 167-320 of 481 pages.	
	A17	Exhibit 1014 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, PART C pages 321-481 of 481 pages.	
	A18	Exhibit 1015 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 7, 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	3	of	3	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
	A19	Exhibit 1016 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 242 pages.	
	A20	Exhibit 1017 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	
	A21	Exhibit 1018 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 250 pages.	
	A22	Exhibit 1019 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 44 pages.	
	A23	Exhibit 1020 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 5 pages.	
	A24	Exhibit 1021 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 1 page.	
	A25	Exhibit 1022 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 1 page.	
	A26	Exhibit 1023 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 24 pages.	
	A27	Exhibit 1024 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 28 pages.	

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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.**

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US010583962B2

(12) **United States Patent**
Brunner et al.

(10) **Patent No.:** **US 10,583,962 B2**
(45) **Date of Patent:** **Mar. 10, 2020**

(54) **UTILITY ASSEMBLY AND COUPLING MECHANISM**

(52) **U.S. CL.**
CPC *B65D 21/0223* (2013.01); *A45C 5/14* (2013.01); *A45C 7/005* (2013.01); *A45C 13/02* (2013.01);

(71) Applicant: **Milwaukee Electric Tool Corporation**,
Brookfield, WI (US)

(Continued)

(72) Inventors: **Yaron Brunner**, Kibbutz Gvat (IL);
Grant T. Squiers, Cudahy, WI (US);
Christopher S. Hoppe, Milwaukee, WI (US);
Steven W. Hyma, Milwaukee, WI (US)

(58) **Field of Classification Search**
CPC *A45C 5/14*; *A45C 7/0045*; *A45C 7/005*;
A45C 13/02; *A45F 3/10*; *A47B 47/00*;
(Continued)

(73) Assignees: **Milwaukee Electric Tool Corporation**,
Brookfield, WI (US); **Keter Plastic Ltd.**, Herzliya (IL)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: 16/216,724

(22) Filed: Dec. 11, 2018

(65) **Prior Publication Data**

US 2019/0106244 A1 Apr. 11, 2019

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(63) Continuation of application No. 15/826,232, filed on Nov. 29, 2017, which is a continuation of application No. PCT/IL2017/050481, filed on Apr. 30, 2017.
(Continued)

Primary Examiner — Gideon R. Weinert

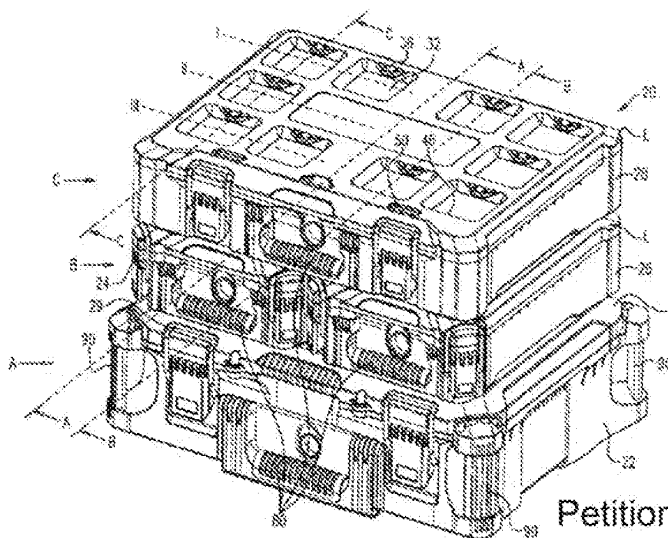
(74) *Attorney, Agent, or Firm* — Reinhart Boerner Van Deuren s.c.

(51) **Int. CL.**
B65D 21/02 (2006.01)
B65D 21/028 (2006.01)
(Continued)

(57) **ABSTRACT**

The present disclosure concerns a coupling mechanism for detachably attaching two or more utility modules to one another, utility assemblies, mobile carriers and other attachable modules and articles.

12 Claims, 48 Drawing Sheets



Petitioner Ex. 1001
Page 1 of 64

US 10,583,962 B2

Page 2

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	CPC A47B 47/04; A47B 67/04; A47B 87/02; A47B 87/007; A47B 87/0276; A47B 88/90; A47B 2210/19; B25H 1/04; B25H 3/021; B25H 3/022; B25H 3/023; B25H 3/04; B25H 3/06; B25H 3/02; B62B 1/14; B62B 5/067; B65D 21/0217; B65D 21/0219; B65D 21/0222; B65D 21/0228; B65D 21/023; B65D 21/0224; B65D 21/02; B65D 21/0223; B65D 21/0212; B65D 21/0204; B65D 21/0209; B65D 2255/00; B65D 25/2823; B65D 25/06; B65H 2701/533; B60P 7/13; B60P 7/06; E04F 2201/013; E04F 2201/0146; E04F 2201/023; E04F 2201/05; Y10S 292/38; Y10S 292/53; Y10T 403/7045; F16B 12/24; F16D 12/44		8,191,910 B2	6/2012	Landau et al.
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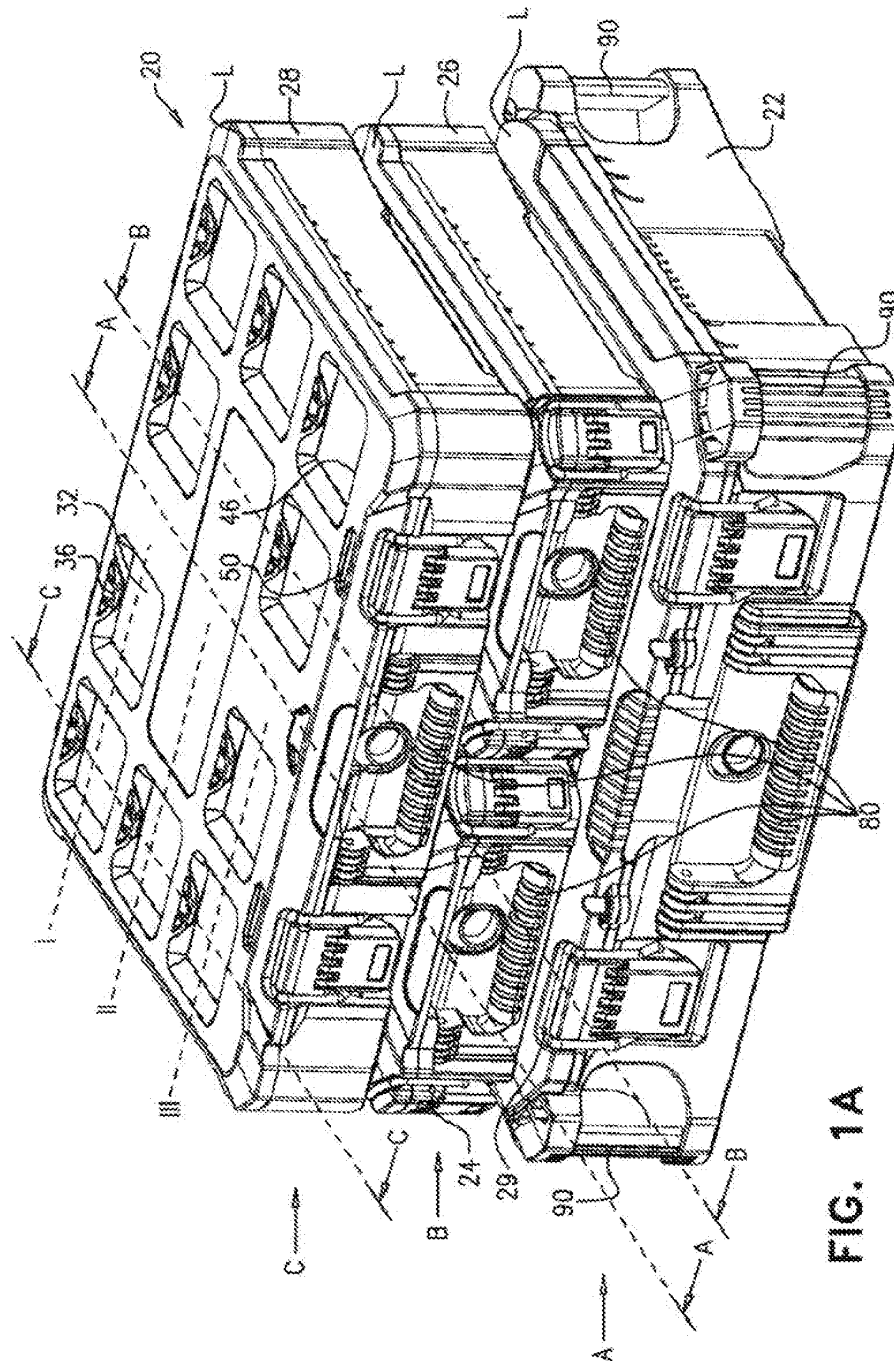


FIG. 1A

Petitioner Ex. 1001
Page 5 of 64

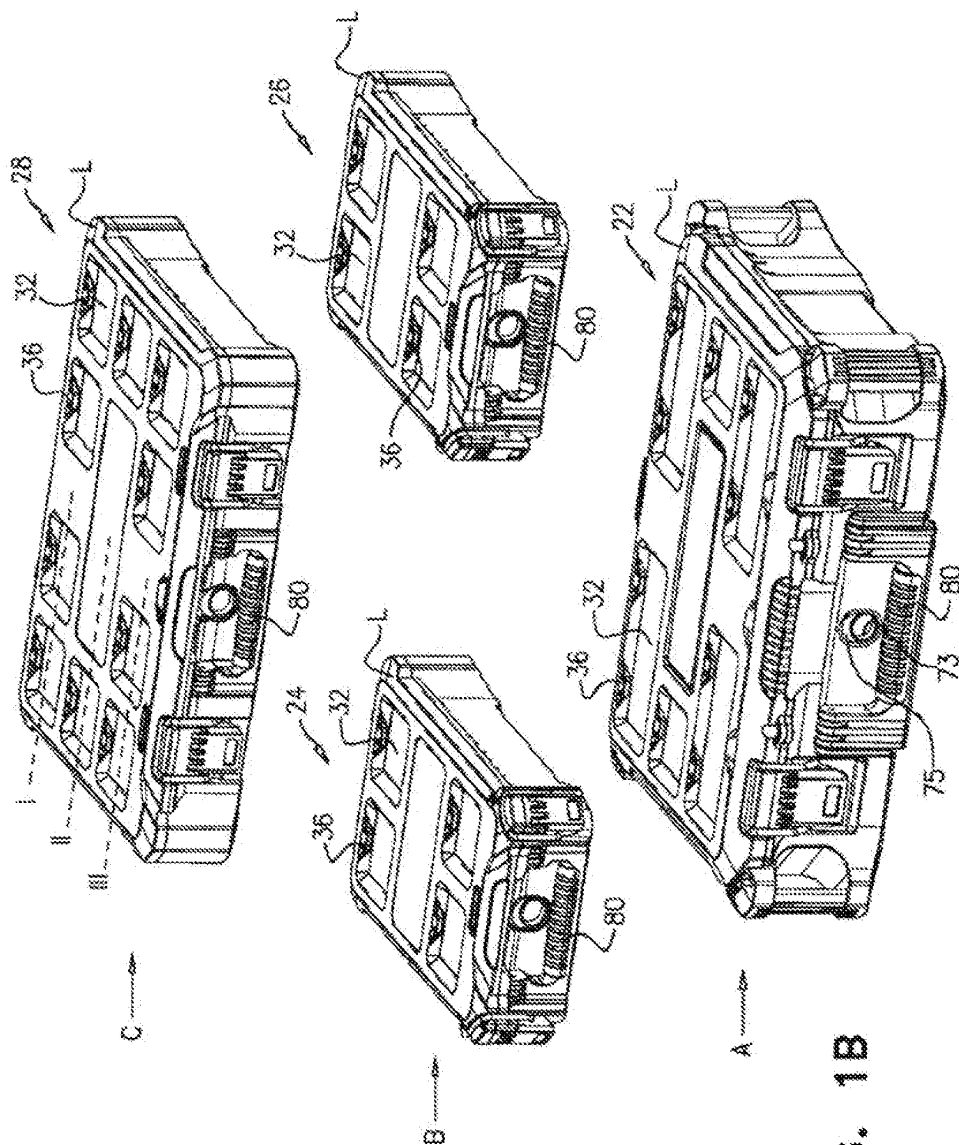
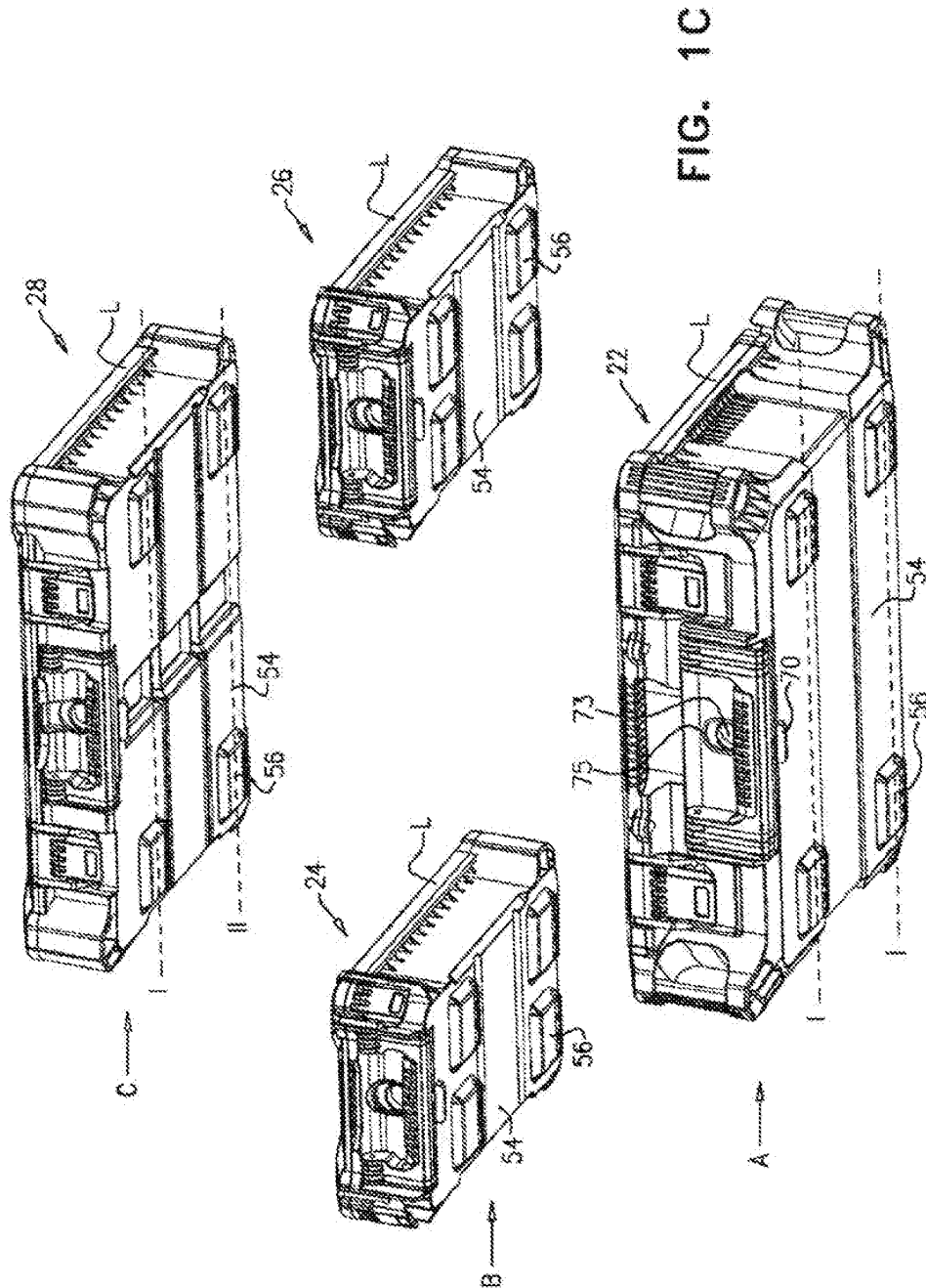


FIG. 1B

Petitioner Ex. 1001
Page 6 of 64



Petitioner Ex. 1001
Page 7 of 64

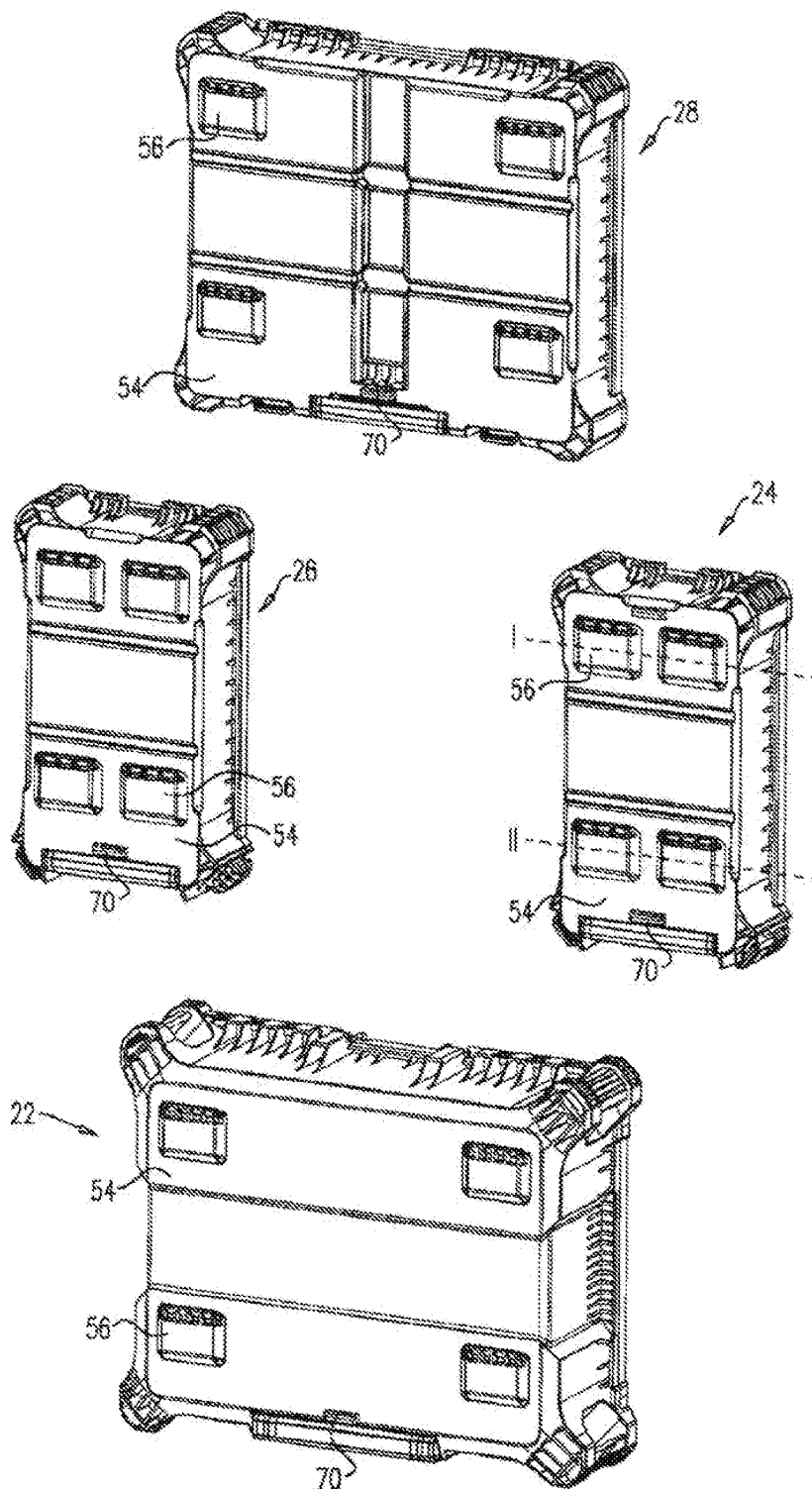


FIG. 1D

Petitioner Ex. 1001
Page 8 of 64

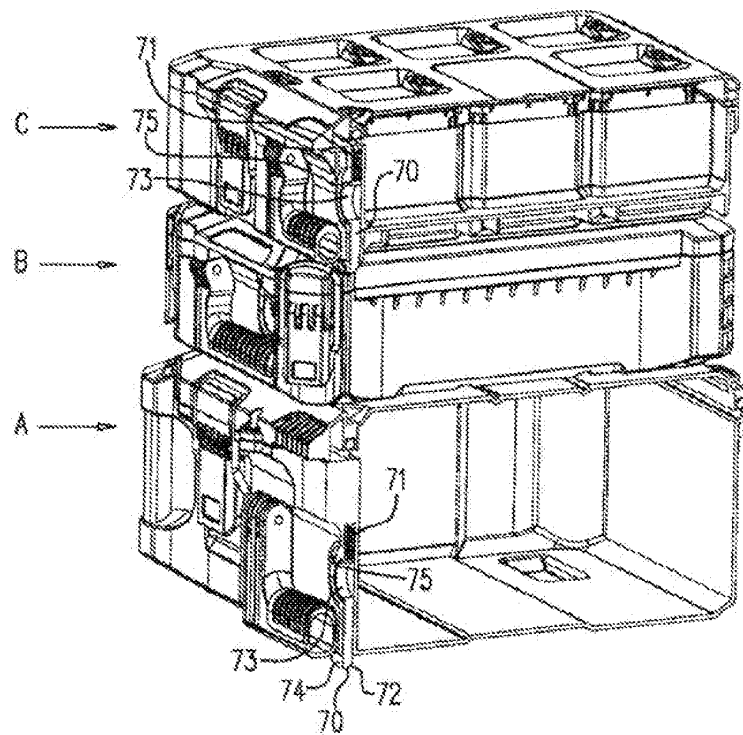


FIG. 2A

Petitioner Ex. 1001
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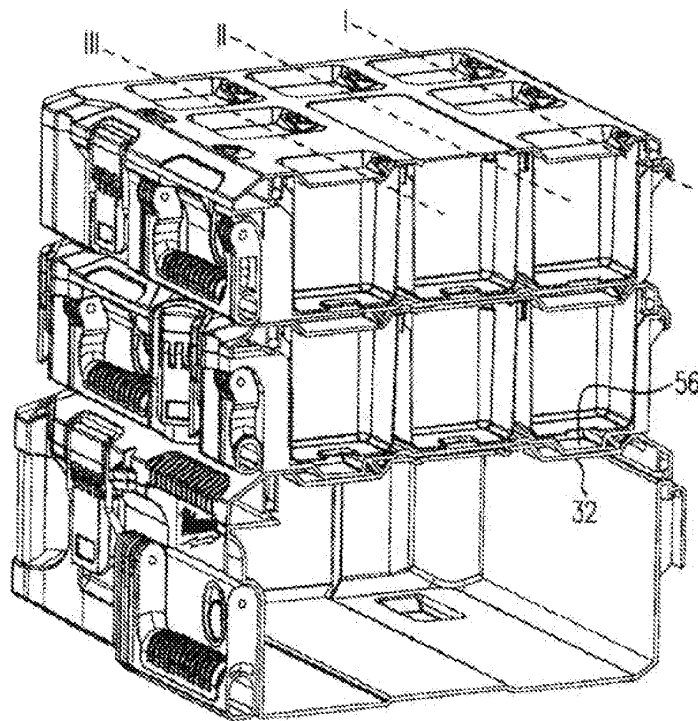


FIG. 2B

Petitioner Ex. 1001
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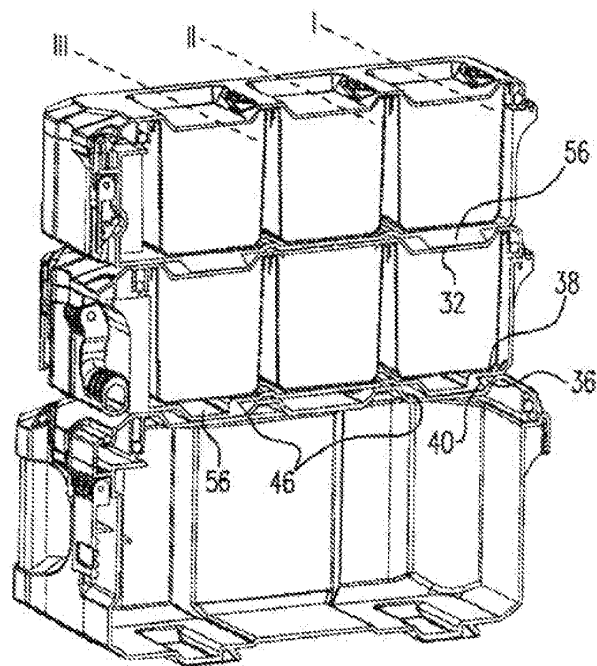
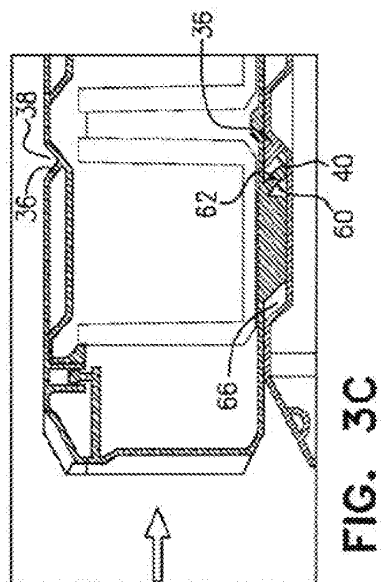
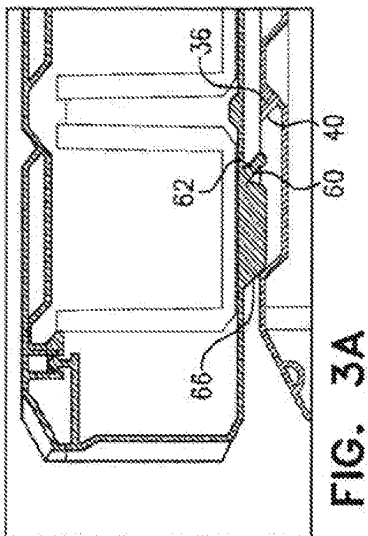
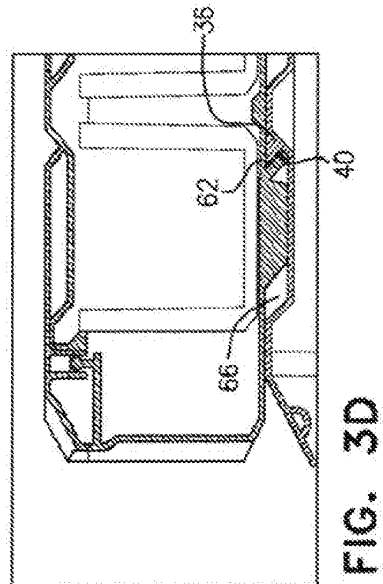
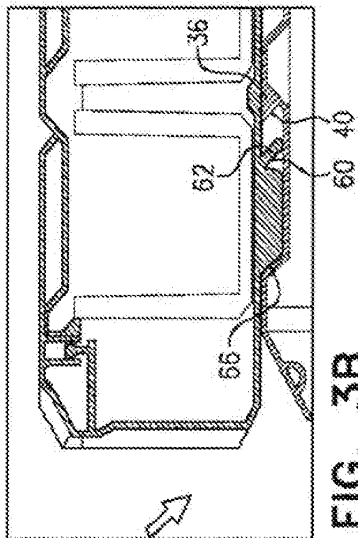


FIG. 2C

Petitioner Ex. 1001
Page 11 of 64



Petitioner Ex. 1001
Page 12 of 64

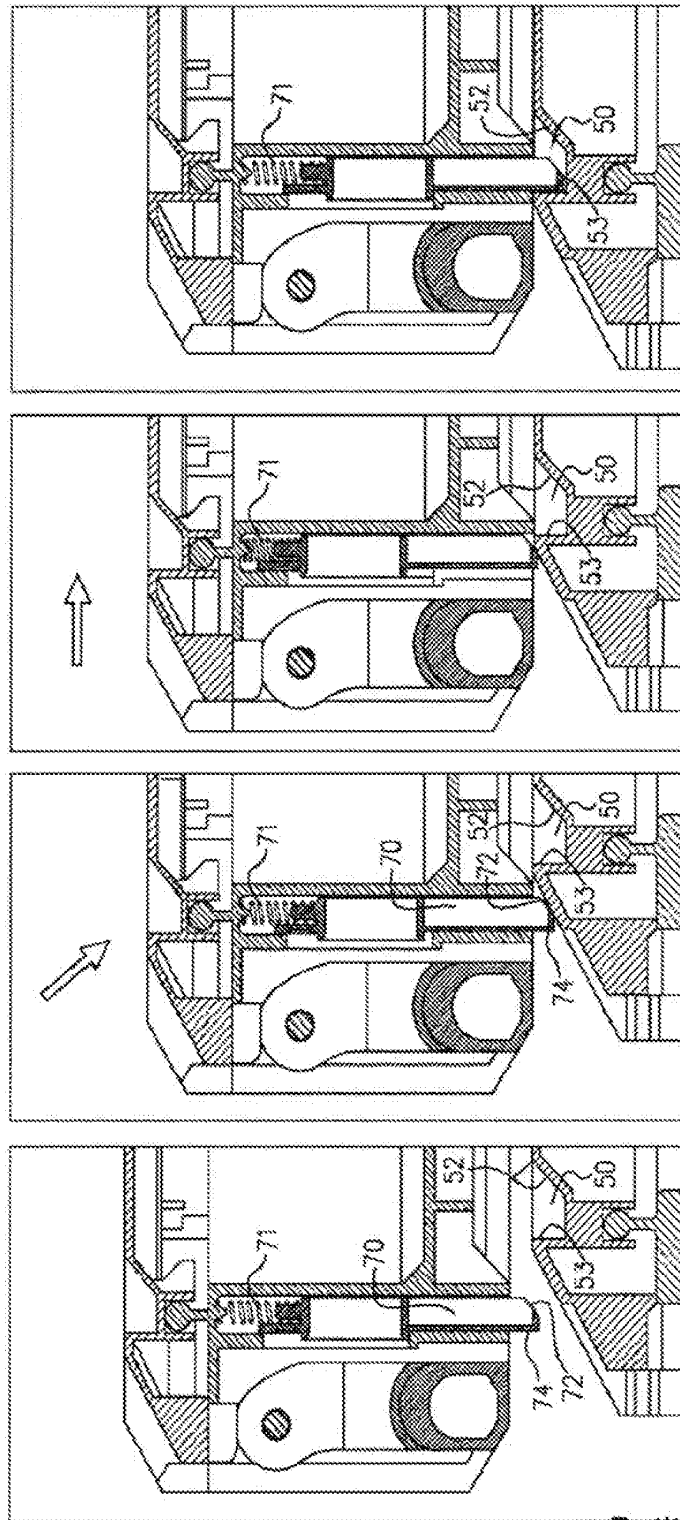


FIG. 4D

FIG. 4C

FIG. 4B

FIG. 4A

Petitioner Ex. 1001
Page 13 of 64

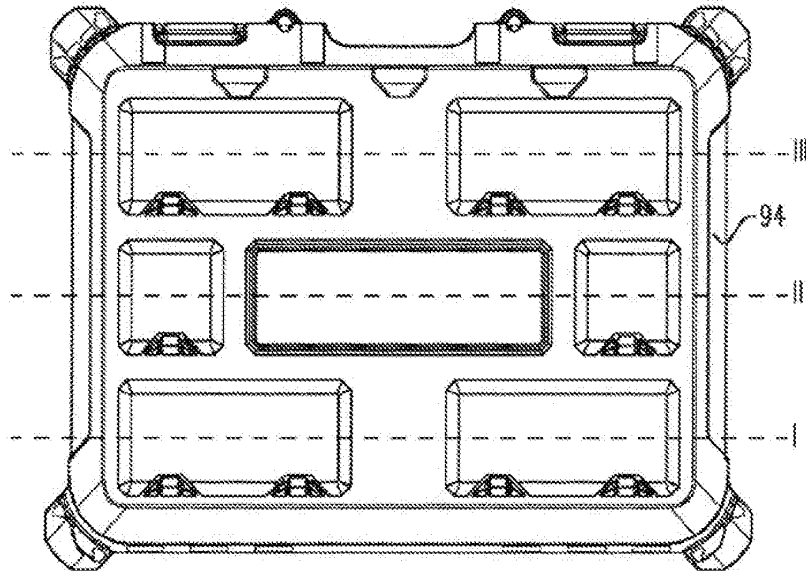


FIG. 5A

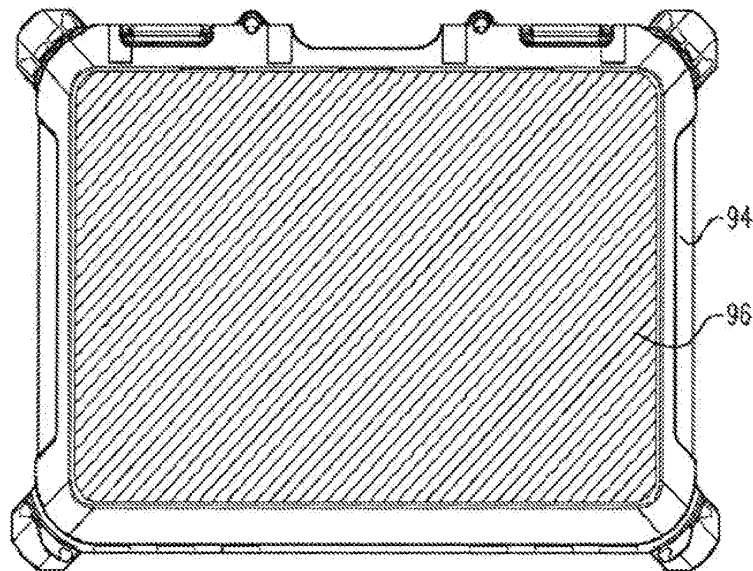


FIG. 5B

Petitioner Ex. 1001

Page 14 of 64

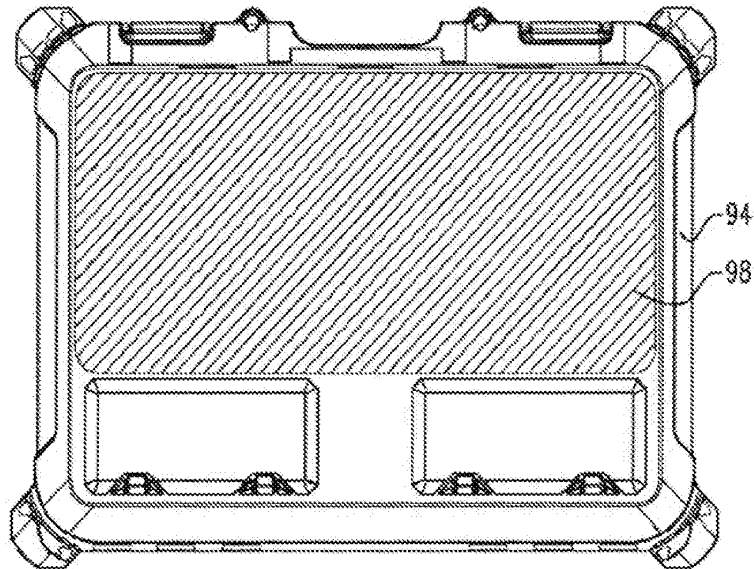


FIG. 5C

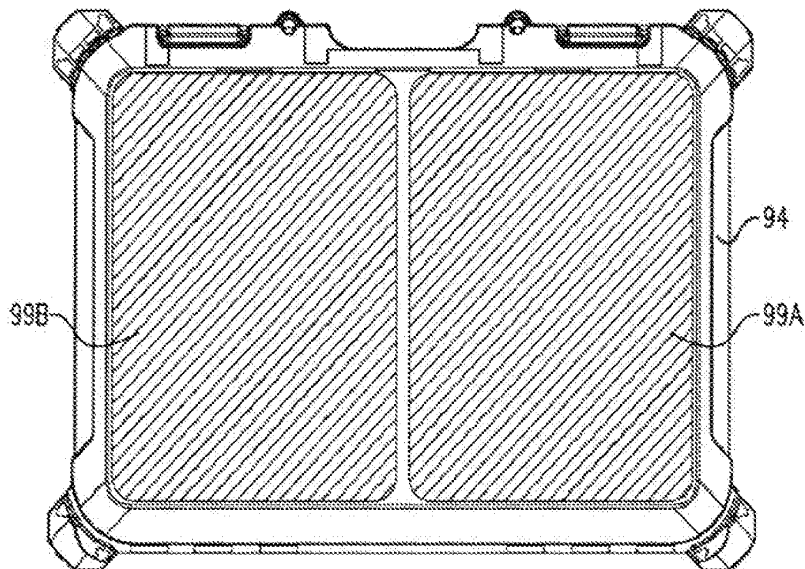
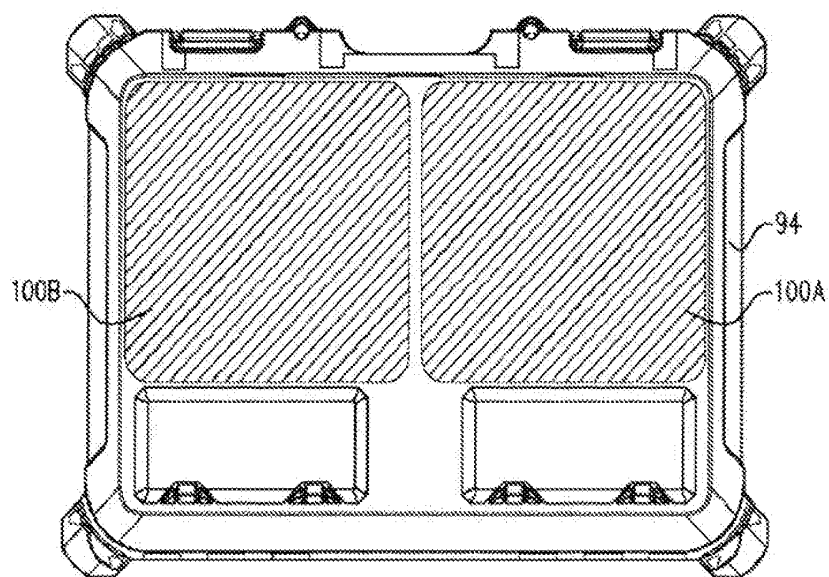


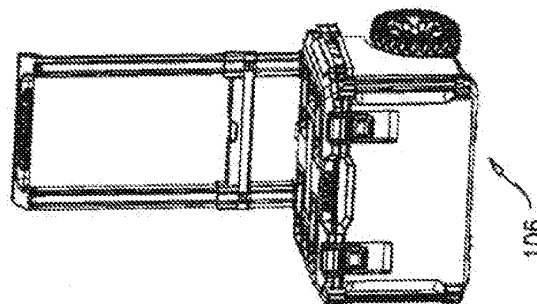
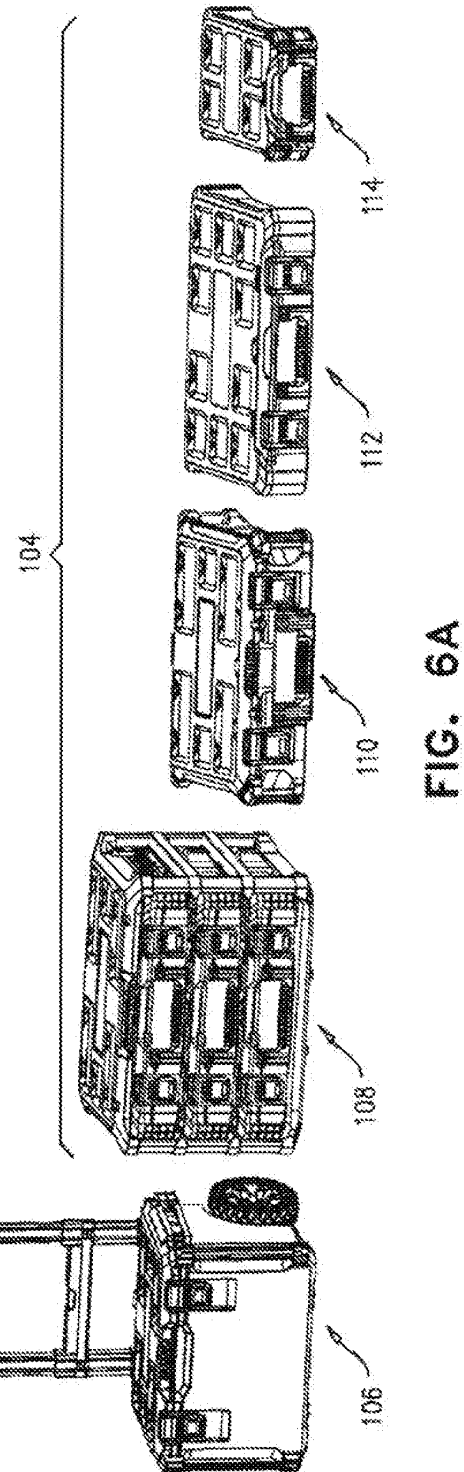
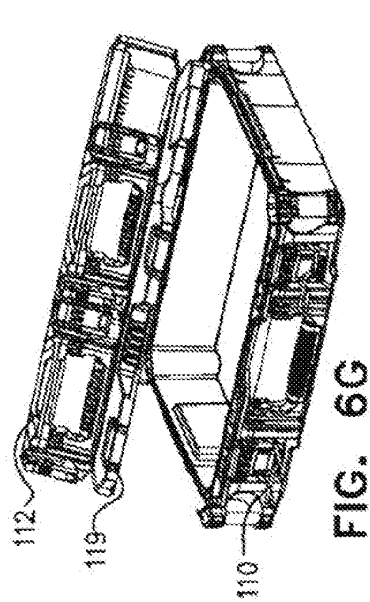
FIG. 5D

Petitioner Ex. 1001

Page 15 of 64



Petitioner Ex. 1001
Page 16 of 64



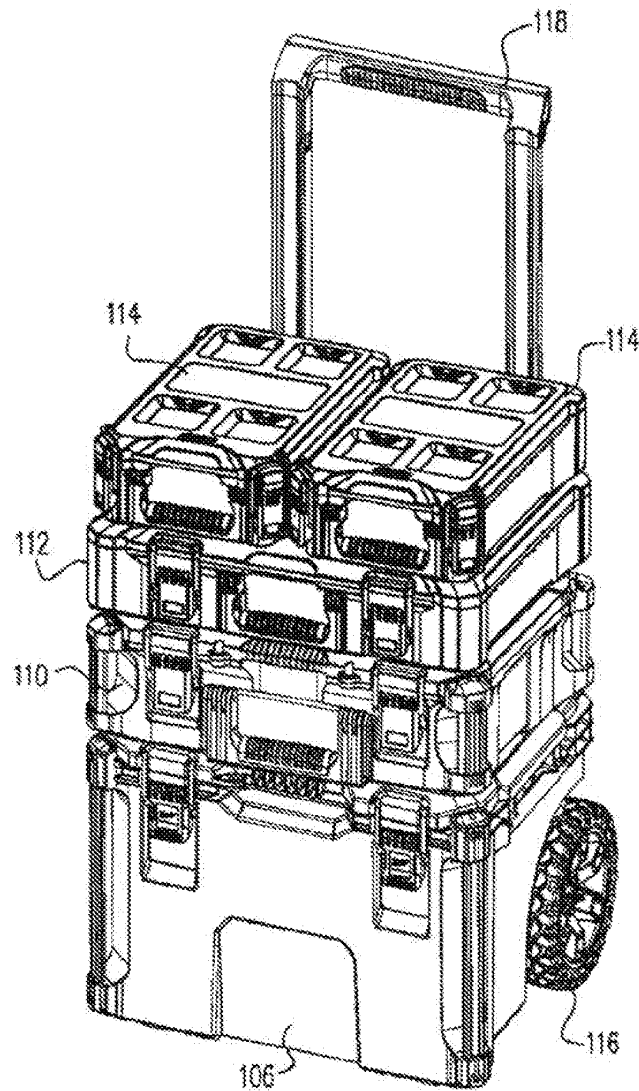


FIG. 6B

Petitioner Ex. 1001
Page 18 of 64

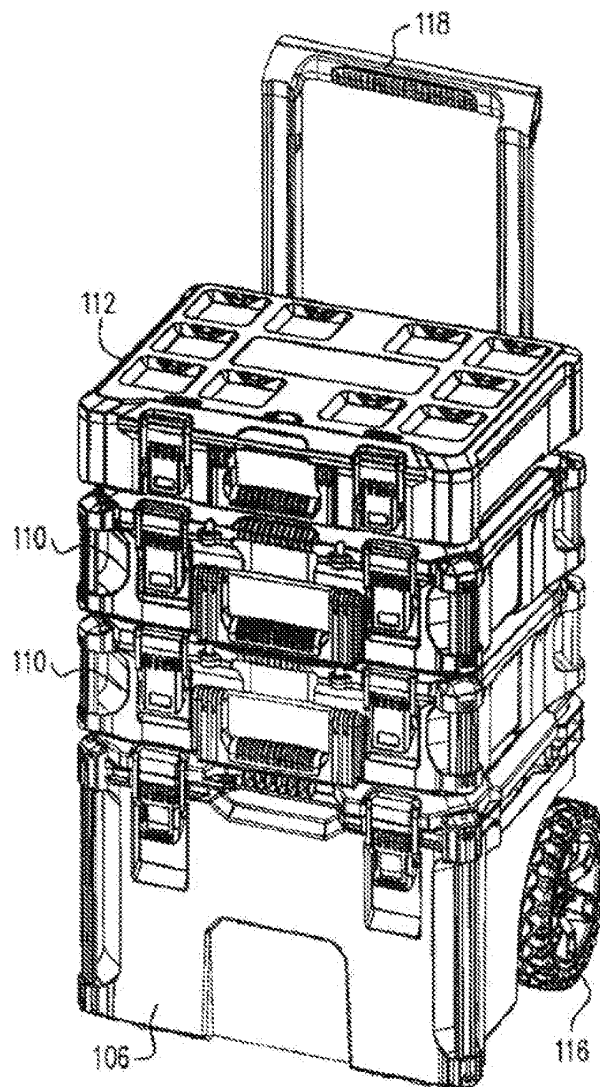


FIG. 6C

Petitioner Ex. 1001
Page 19 of 64