

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation et al.

Title: Utility Assembly and Coupling Mechanism

Appl. No.: 18/051,749

Filing Date: November 1, 2022

Examiner: GIDEON R WEINERTH

Art Unit: 3736

Confirmation Number: 9909

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.

Atty. Dkt. No. 066749-3677

Respectfully submitted,

Date March 7, 2023

By /Derek H. Campbell/

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



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PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/051,749

RECEIPT DATE / TIME
03/07/2023 05:37:17 PM ET

ATTORNEY DOCKET #
066749-3677

Title of Invention

Utility Assembly and Coupling Mechanism

Application Information

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

PATENT # -

CONFIRMATION # 9909

FILED BY Sarah Sesterhenn-Lee

PATENT CENTER # 61703025

FILING DATE 11/01/2022

CUSTOMER # 142078

FIRST NAMED
INVENTOR Yaron Brunner

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY Derek Campbell

Documents

TOTAL DOCUMENTS: 5

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
066749-3677_Non-Final_Office_Action_Response.pdf	7	-	122 KB
066749-3677_Non-Final_Office_Action_Response-A...pdf	(1-1) 1	Amendment/Request for Reconsideration-After Non-Final Rejection	74 KB
066749-3677_Non-Final_Office_Action_Response-CLM.pdf	(2-4) 3	Claims	74 KB
066749-3677_Non-Final_Office_Action_Response-REM.pdf	(5-7) 3	Applicant Arguments/Remarks Made in an Amendment	89 KB

066749-3677-SB08.pdf	2	Information Disclosure Statement (IDS) Form (SB08)	118 KB
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Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.

066749-3677- IDS_Transmittal.pdf	3	Transmittal Letter	89 KB
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Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
066749-3677_Non-Final_Office_Action_Response.pdf	1F49F63C4B81F5DA39562AD463D31A49D4BC48AA2969FC844 6062EF85F6A39729195E6F5CCC7A12452788A2706B66FAAafb 925BFCC75BE636B8A4A08ABA48F5D
066749-3677_Non-Final_Office_Action_Response-A....pdf	BFB34D7B3E0EFACDFDBB4FCF0D36C244B5AF790B640750BF E1C3E775C0E01EDDCAB0D15810A89BE04A7963AAE0DD4167 B103AD99B69ED305515424069EEBDD14
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066749-3677_Non-Final_Office_Action_Response-REM.pdf	14B037DD3316E55C0091E87E0DABAF8D2C551C6CA415A13F9 8614BF18688553146B18A6D53B976C715F57E94304855AB9A64 2805B499A41098FD84974A9F812D
066749-3677-SB08.pdf	C6CFFE9A941E9AC9E9FAEB0797E6ECAEF819E64865B832948 053175FC9004770D679B3B1076E9BF798329326FF8CE80DAB0 56C882F124573547A0463CB601F855
066749-3677-IDS_Transmittal.pdf	A75EDC6B6919BAEAA7AFFDB8A99A8F59B48C39C6ADE8AD4 6EE41C9A76826CECA0F41366FDB9B0A664C3E15BC4229A02 CDF2FB570B6406B198165E45EE16B4DA7

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 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.



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ELECTRONIC PAYMENT RECEIPT

APPLICATION #
18/051,749

RECEIPT DATE / TIME
03/07/2023 05:29:57 PM ET

ATTORNEY DOCKET #
066749-3677

Title of Invention

Utility Assembly and Coupling Mechanism

Application Information

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

PATENT # -

CONFIRMATION # 9909

FILED BY Derek Campbell

PATENT CENTER # 61702862

AUTHORIZED BY -

CUSTOMER # 142078

FILING DATE 11/01/2022

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Yaron Brunner

Payment Information

PAYMENT METHOD
DA / 180882

PAYMENT TRANSACTION ID
E202337H30436934

PAYMENT AUTHORIZED BY
Derek Campbell

PRE-AUTHORIZED ACCOUNT
180882

PRE-AUTHORIZED CATEGORY
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)

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	170.00	1	170.00
TOTAL AMOUNT:				\$170.00

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PATENT AND TRADEMARK OFFICE**

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313 - 1450
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APPROVAL LETTER

APPLICATION #
18/051,749

FILING DATE
11/01/2022

APPLICANT/PATENT UNDER REEXAMINATION
Yaron Brunner

Title of Invention

Utility Assembly and Coupling Mechanism

Electronic terminal disclaimer filed on 03/07/2023

☒ Approved

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved



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066749-3677

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PATENT # -

CONFIRMATION # 9909

FILED BY Derek Campbell

PATENT CENTER # 61702862

FILING DATE 11/01/2022

CUSTOMER # 142078

FIRST NAMED INVENTOR Yaron Brunner

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-request.pdf	3	Terminal Disclaimer-Filed (Electronic)	49 KB
grantLetter.pdf	1	Terminal Disclaimer-Electronic- Approved	19 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
petition-request.pdf	F6EB11A26D862270B0C2F728BC36FC717679B46DBF75A0E33 48D168A61012A564D55142B8A2ABBECEBBDA395B37F696451

928C61B0DFEC1C13D874D353B13D42

grantLetter.pdf

187FC70BE10B3921846287BB6A2E7047B7E648E64730B45B6E
43D55DED0EE15179B6A529F5F313A30896A190E3944AFE1304
9923B683F8817E8F5D2B5B3C6FF7

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TERMINAL DISCLAIMER TO OBTAIN A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

APPLICATION #
18051749

FILING DATE
11/01/2022

FIRST NAMED INVENTOR
Yaron Brunner

ATTORNEY DOCKET #
066749-3677

Title of Invention

Utility Assembly and Coupling Mechanism



Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action



This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent interest
Milwaukee Electric Tool Corporation	100%
Keter Plastic Ltd.	100%
Total	200%

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

Application #	Filing Date
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as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent

granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

Patent #
11365026

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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

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



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

Applicant claims the following entity status:

Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Signature	Name	Registration #
/Derek H. Campbell/	Derek Campbell	70608

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



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/051,749	11/01/2022	Yaron Brunner	066749-3677	9909
142078	7590	02/22/2023		
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
			02/22/2023	ELECTRONIC

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

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

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

IPAdmin@reinhartlaw.com

Continuation of Attachment(s) 4) Other: Double Patenting Claim Comparison Chart

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.

Election/Restriction

2. This application contains claims directed to the following patentably distinct species:

A. A container assembly comprising a first and second container comprising a toggle locking latch, a spring biased locking latch, a handle, and corner bumpers as recited in Claims 21-29.

B. A container assembly comprising a first and second container comprising toggle locks and corner protectors with gaps located between the corner protectors and the container body to act as corner carrying handles as recited in Claims 30-34.

3. The species are independent or distinct because the structure and configuration of the corner protectors are different. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, or a single grouping of patentably indistinct species, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

There is a search and/or examination burden for the patentably distinct species as set forth above because at least the following reason applies: the structure of the corner protectors appears to have different functions and structure.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected species or grouping of patentably indistinct species**, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species or grouping of patentably indistinct species.

Should applicant traverse on the ground that the species, or groupings of patentably indistinct species from which election is required, are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing them to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the

evidence or admission may be used in a rejection under 35 U.S.C. 103 or pre-AIA 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

4. During a telephone conversation with Mr. Derek Campbell on February 9, 2023 a provisional election was made without traverse to prosecute the invention of Species 1, claims 21-29. Affirmation of this election must be made by applicant in replying to this Office action. Claims 30-34 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be corrected in compliance with 37 CFR 1.48(a) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. A request to correct inventorship under 37 CFR 1.48(a) must be accompanied by an application data sheet in accordance with 37 CFR 1.76 that identifies each inventor by his or her legal name and by the processing fee required under 37 CFR 1.17(i).

Claim Objections

6. Claim 22 objected to because of the following informalities:

7. Claim 22 recites: "...the first corner bumper defining an outer surface that faces **way** from each of the front face and the first side face, and the second corner bumper

defining an outer surface that faces **way** from each of the front face and the second side face.*(sic)*"

8. It is assumed that the claim intends to recite an outer surface that faces **AWAY** from the front face and the first side face.

9. Appropriate correction is required.

Double Patenting

10. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process... may obtain a patent therefor..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the claims that are directed to the same invention so they are no longer coextensive in scope. The filing of a terminal disclaimer **cannot** overcome a double patenting rejection based upon 35 U.S.C. 101.

11. **Claims 21, 23, 24, 25, 26, and 29 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1, 2, 4, and 8-11 of prior U.S. Patent No. 11365026.**

12. This is a statutory double patenting rejection. Please see the included claim comparison chart.

13. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application

in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

14. Claims 27 and 28 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-11 of U.S. Patent No. 11365026.

15. Although the claims at issue are not identical, they are not patentably distinct from each other because Claim 27 identifies the position of the second coupler of the second container such that the tongue is offset from a bottom face of the second container and engages between the tongue and the bottom face of the second container. However, this structure and position of the tongue coupler is implied by the coupler configuration set forth in Claim 1 of US Patent 11365026.

16. Similarly, varying the arrangement of the relative axis's of the two coupled containers in Claim 28 is an obvious variation in the positioning of the containers in an engaged, locked, configuration.

17. Claim 22 rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1 of U.S. Patent No. 11365026 in view of Welsh (US 2007/0138041).

18. Regarding Claim 22, U.S. Patent No. 11365026 discloses the limitations of Claim 21 as discussed above. While the subject matter of corner bumpers is discussed in Col. 21 Lines 29-31, this feature is not claimed in U.S. Patent No. 11365026.

19. Welsh discloses a similar container assembly (50) with a front face, a first side face, an opposing second side face, and a first corner bumper (70) coupled to the container between the front face and the first side face, and a second corner bumper (70) coupled to the second container between the front face and the second side face, the first corner bumper defining an outer surface that faces away from each of the front face and the first side face, and the second corner bumper defining an outer surface that faces away from each of the front face and the second side face.

20. U.S. Patent No. 11365026 and Welsh are analogous inventions in the art of tool carrying cases.

21. 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 container of U.S. Patent No. 11365026 with the corner bumpers of Welsh in order to cushion an impact load exerted on the case if the case is dropped on a hard surface (Paragraph 0006).

Conclusion

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

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

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an

interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Pickett can be reached on (571) 272-4560. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Notice of References Cited	Application/Control No. 18/051,749		Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH		Art Unit 3736	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
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*	B	US-20210154824-A1	05-2021	Barton; George	A45C13/1084	1/1
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	J					
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	L					
	M					

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

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

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Part of Paper No. 20230215

<i>Search Notes</i> 	Application/Control No. 18/051,749	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

CPC - Searched*		
Symbol	Date	Examiner
A45C7/005,0045	02/15/2023	GW
A45C5/14	02/15/2023	GW
A45C13/02	02/15/2023	GW
A45F3/10	02/15/2023	GW
B25H1/04	02/15/2023	GW
B25H3/02,021,023	02/15/2023	GW
B62B1/14	02/15/2023	GW
B65D21/0223,0209,0228	02/15/2023	GW
B62B5/067	02/15/2023	GW
B65D2255/00	02/15/2023	GW
B65H2701/533	02/15/2023	GW

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
220	4.27	02/15/2023	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
Update search, Inventor search, IDS, AI MLTD search	02/15/2023	GW

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<i>Search Notes</i> 	Application/Control No. 18/051,749	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

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

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

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>		Application Number	18/051,749
		Filing Date	November 1, 2022
		First Named Inventor	Yaron Brunner
		Art Unit	To be determined
		Examiner Name	To be determined
Sheet	1	of	21
		Attorney Docket Number	066749-3677

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
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				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	2	of	21	Attorney Docket Number	066749-3677

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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		Filing Date	November 1, 2022
		First Named Inventor	Yaron Brunner
		Art Unit	To be determined
		Examiner Name	To be determined
Sheet	3	of	21
		Attorney Docket Number	066749-3677

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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Sheet	4	of	21	Attorney Docket Number		066749-3677

U.S. PATENT DOCUMENTS					
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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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	A140	8,894,160	11-25-2014	Christensen	
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	A144	9,132,543	09-15-2015	Bar-Erez; Sharon	
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	A147	9,551,367	01-24-2017	Shieh	
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	A151	9,701,443	07-11-2017	Wang; Tzu-Chien	
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	A157	10,106,180	10-23-2018	Bar-Erez et al.	
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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>		Application Number	18/051,749
		Filing Date	November 1, 2022
		First Named Inventor	Yaron Brunner
		Art Unit	To be determined
		Examiner Name	To be determined
Sheet	6	of	21
		Attorney Docket Number	066749-3677

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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
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Application Number		18/051,749	
Filing Date		November 1, 2022	
First Named Inventor		Yaron Brunner	
Art Unit		To be determined	
Examiner Name		To be determined	
Attorney Docket Number		066749-3677	

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Filing Date				November 1, 2022	
First Named Inventor				Yaron Brunner	
Art Unit				To be determined	
Examiner Name				To be determined	
Attorney Docket Number				066749-3677	
Sheet	8	of	21		

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Examiner Signature /GIDEON R WEINERTH/	Date Considered	02/13/2023
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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	11	of	21	Attorney Docket Number	066749-3677

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
	A316	2019/0168376	06-06-2019	Brocket et al.	
	A317	2019/0225371	07-25-2019	Hoppe et al.	
	A318	2020/0029543	01-30-2020	Householder	
	A319	2020/0055534	02-20-2020	HASSELL	
	A320	2020/0078929	03-12-2020	Liu	
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	A323	2020/0223585	07-16-2020	Brunner et al.	
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	A332	2021/0155373	05-27-2021	Cai	
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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
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Sheet	12	of	21		

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	A352	D527,225	08-29-2006	Krieger et al.	
	A353	D536,580	02-13-2007	Krieger et al.	
	A354	D630,851	01-18-2011	Landau et al.	
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				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	13	of	21	Attorney Docket Number	066749-3677

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
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	A381	D826,510	08-21-2018	Brunner	
	A382	D828,671	09-11-2018	COPE et al.	
	A383	D831,352	10-23-2018	Brunner	
	A384	D833,744	11-20-2018	Yahav et al.	
	A385	D836,995	01-01-2019	Carey et al.	
	A386	D837,515	04-08-2019	Shpitzer	
	A387	D839,681	02-05-2019	Evron et al.	
	A388	D845,080	04-09-2019	Jacobsen	
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	A391	D871,013	12-24-2019	LIU	
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				First Named Inventor		Yaron Brunner
				Art Unit		To be determined
				Examiner Name		To be determined
Sheet	14	of	21	Attorney Docket Number		066749-3677

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	A412	D918,584	05-11-2021	Brunner et al.	
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	A416	D932,186	10-05-2021	Brunner et al.	
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UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
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FOREIGN PATENT DOCUMENTS						
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	A420	CN101068661	11-07-2007	BOSCH GMBH ROBERT		
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	A427	CN103659777	03-26-2014	Bosch GMBH Robert		
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	A430	CN2608238	03-31-2004	BAO JIANGANG		
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	A432	DE 202015005752	11-21-2016	PLASTON AG		
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	A435	DE102010003754	10-13-2011	KAERCHER GMBH AND CO ALFRED KG		
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	A456	EP2289671	03-02-2011	Stanley Works Israel		

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Sheet	16	of	21	Attorney Docket Number	066749-3677

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)				
	A457	EP2346741	07-27-2011	MADSEN JENS OLE		
	A458	EP2456341	05-30-2012	KAERCHER GMBH AND CO ALFRED KG		
	A459	EP2555660	02-13-2013	KAERCHER GMBH AND CO ALFRED KG		
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	A461	EP2805799	11-23-2016	FLEISCHMANN BERND et al.		
	A462	EP3141354	03-15-2017	KOCH SIMON et al.		
	A463	GB2047181B	02-02-1983	REUNIS SA ATELIERS		
	A464	GB2110076	06-15-1983	Ostling Bernt et al.		
	A465	GB2330521	04-28-1999	SPOONER PAUL		
	A466	GB2406331	03-30-2005	JEFFRIES JULIAN CLIFFORD		
	A467	GB2413265	10-26-2005	THOMSON BRIAN		
	A468	GB2449934	12-10-2008	Protrend Co Ltd.		
	A469	GB694707	07-22-1953	GEORGE ARTHUR CHARD		
	A470	JP D1180963	08-04-2003	Name not in English		
	A471	JP D1455321	11-12-2012	Name not in English		
	A472	JP D1625407	02-25-2019	Name not in English		
	A473	JP1276744	07-18-2006	Hirofumi Kishimoto		
	A474	JP1477050	08-19-2013	Ryosuke Omachi		
	A475	JP2003194020A	07-09-2003	SUGIMURA ATSUKI		
	A476	JP2013022972	02-04-2013	IZUMI DOI, HIDEKI NOMA, MASAYUKI NAKANISHI		
	A477	JP2013022976	02-04-2013	DAIFUKU KK		
	A478	JPD1395115	08-16-2010	Toyoharu Senda		
	A479	JPD1395116	08-16-2010	Toyoharu Senda		
	A480	JPD1503434	07-28-2014	Name not in English		
	A481	JPD1665028	08-03-2020	Keter Plastic LTD et al.		
	A482	KR 3008066040000	07-22-2015	Woojubon Co. LTD		
	A483	KR 3008496000000	04-15-2016	Hwang, Hyung Keun		

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
				Attorney Docket Number	066749-3677
Sheet	17	of	21		

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)				
	A484	KR30-0271616	02-09-2000	Joong Chui Ahm		
	A485	KR30-0320243	06-10-2002	Joung Gu Kang		
	A486	KR3008422360000	03-02-2016	NPC Co., Ltd. HYUNDAI GLOVIS Co., Ltd.		
	A487	KR3008599650000	06-22-2016	NPC Co., Ltd.		
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	A492	TW135074	06-01-2010	Yi Hua Wu		
	A493	TW168686	07-01-2015	Kang Delun Business Co., Ltd.		
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	A504	WO2007/121746	11-01-2007	J.O. MADSEN APS; MADSEN JENS OLE		
	A505	WO2007121745A1	11-01-2007	MADSEN JENS OLE		
	A506	WO2009/140965	11-26-2009	J.O. MADSEN APS; MADSEN JENS OLE		
	A507	WO2011/009480	01-27-2011	HENSEL MAIC; HESS STEFAN; KAERCHER GMBH & CO KG		
	A508	WO2013/026084	02-28-2013	CONNOR PAUL FRANCIS; DEMAIN TECHNOLOGY PTY LTD.		
	A509	WO2014/125488	08-21-2014	KETER PLASTIC LTD		

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	18	of	21	Attorney Docket Number	066749-3677

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	A510	WO2016142935	09-15-2016	BRUNNER, Yaron et al.		
	A511	WO2017/212840	12-14-2017	GENESIS CO., LTD.		
	A512	WO2017028845	02-23-2017	ROTHENBERGER AG		
	A513	WO2017191628	11-09-2017	BRUNNER YARON		

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
	A514	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.	
	A515	Exhibit 1001 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 64 pages.	
	A516	Exhibit 1002 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 75 pages.	
	A517	Exhibit 1003 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 13 pages.	
	A518	Exhibit 1004 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 18 pages.	
	A519	Exhibit 1005 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 9 pages.	
	A520	Exhibit 1006 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 176 pages.	
	A521	Exhibit 1007 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 22 pages.	
	A522	Exhibit 1008 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	02/13/2023
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	19	of	21	Attorney Docket Number	066749-3677

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	A523	Exhibit 1009 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 24 pages.	
	A524	Exhibit 1010 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 19 pages.	
	A525	Exhibit 1011 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 26 pages.	
	A526	Exhibit 1012 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 3 pages.	
	A527	Exhibit 1013 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 168 pages.	
	A528	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.	
	A529	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.	
	A530	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.	
	A531	Exhibit 1015 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	
	A532	Exhibit 1016 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 242 pages.	
	A533	Exhibit 1017 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	
	A534	Exhibit 1018 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 250 pages.	
	A535	Exhibit 1019 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 44 pages.	

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	02/13/2023
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				Art Unit	To be determined
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Sheet	20	of	21	Attorney Docket Number	066749-3677

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	A536	Exhibit 1020 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 5 pages.	
	A537	Exhibit 1021 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 1 page.	
	A538	Exhibit 1022 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 1 page.	
	A539	Exhibit 1023 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 24 pages.	
	A540	Exhibit 1024 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 28 pages.	
	A541	"Blitz Box – Portable Storage Box / Shelf," The Green Head Finds Cool New Stuff, https://www.thegreenhead.com/2013/03/blitz-box-portable-storage-box-shelf.php , Per Wayback, website dates back to February 15, 2015, 5 pages.	
	A542	"BluCave Universal Storage System," BATAVIA Tools to Build, https://batavia.eu/blucave-storage-system/ , believed to be available at least as early as November 29, 2017, 5 pages.	
	A543	"Dewalt TSTAK Carrier Trolley," ITS, https://www.its.co.uk/pd/171229-Dewalt-TSTAK-Carrier-Trolley-DEW171229.htm , Per Wayback, website dates back to May 2, 2015, 2 pages.	
	A544	"DeWalt TSTAK Vac Rack (Suits DW DWV902M & DWV900L) DWV9500-XJ," Get Tools Direct, https://www.gettoolsdirect.com.au/dewalt-tstak-vac-rack-suits-dwv902m-and-dwv900l-dwv9500-xj.html , believed to be available at least as early as November 29, 2017, 4 pages.	
	A545	"Hopkins FloTool 91002 Rhino Box with Mount," Amazon.com, https://www.amazon.com/exec/obidos/ASIN/B003K15F3I/20140000-20 , believed to be available at least as early as November 29, 2017, 7 pages.	
	A546	"Tool Skool, TSTAK Phase 2 Upgrades TSTAK Carts – First Look – Tool Skool," YouTube, September 7, 2013, https://www.youtube.com/watch?v=jb06y6J1dr4&feature=youtu.be&t=197 , 1 page.	
	A547	Batavia GmbH, BluCave Storage System, https://protect-us.mimecast.com/s/5XIGCR6KypcgJnIKi9EDoim?domain=batavia.eu , believed to be available at least as early as November 29, 2017, 7 pages.	
	A548	BluCave Video, https://www.youtube.com/watch?v=Sw7fQQPwoOtY&feature=youtu.be&t=32 , believed to be available at least as early as November 29, 2017.	

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	A549	International Search Report and Written Opinion for International Application No. PCT/IL2019/050689, dated August 23, 2019, 21 pages.	
	A550	International Search Report and Written Opinion for International Application No. PCT/US2018/033161, dated August 6, 2018, 14 pages.	
	A551	International Search Report and Written Opinion for International Application No. PCT/US2018/044629, dated January 9, 2019, 22 pages.	
	A552	International Search Report and Written Opinion for International Application No. PCT/US2019/014940, dated July 26, 2019, 7 pages.	
	A553	International Search Report and Written Opinion for International Application No. PCT/IL2020/050433, dated June 21, 2020, 14 pages	
	A554	Sortimo Logistix, "Mobile Sortiment", brochure, believed to be available at least as early as November 29, 2017, 17 pages.	
	A555	STUART, "Ryobi ToolBlox Tool Cabinet System!", TOOLGUYP, September 18, 2014, https://toolguyp.com/ryobi-toolblox-cabinets/ , 23 pages.	
	A556	STUART, "Sys-Cart Base, a Systainer Mounting Platform," TOOLGUYP, July 28, 2014, https://toolguyp.com/systainer-sys-cart-mounting-base/ , 11 pages.	
	A557	VERTAK, https://www.alibaba.com/product-detail/Vertak-global-patented-multi-funciton-portable_60217794260.html , believed to be available at least as early as November 29, 2017.	
	A558	Non-Final Rejection issued April 12, 2018, in United States Application No. 15/826,201. (16 Pages) (Docket No. J699501JS01 446373-419).	

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1523	((("Milwaukee") near3 ("Electric") near3 ("Tool") near3 ("Corporation"))).AS,AA NM.	(USPAT)	OR	ON	ON	2023/02/13 06:10 PM
L2	224	((("Keter") near3 ("Plastic") near3 ("LTD"))).AS,AANM.	(USPAT)	OR	ON	ON	2023/02/13 06:10 PM
L3	127	((("Brunner") near3 ("Yaron"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/13 06:11 PM
L4	107	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/13 06:11 PM
L5	144	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/13 06:12 PM
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L27	16	L15 AND bumper	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/13 09:12 PM
L28	304	(L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26) AND bumper	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/13 09:14 PM
L29	481	("0495537" "0509839" "1081378" "1084360" "1112943" "1488460" "1704480" "0D85986" "2042387" "2100036" "2103106" "2124541" "2210235" "2386343" "2430200" "2558126" "2588009" "2939613" "2970358" "3005282" "3117692" "3186585" "3225865" "3423786" "3424334" "3506321")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 11:09 AM

		"3514170"	"3550908"				
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		"4643494"	"4660725"				
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		"4693345"	"4735107"				
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		"4929973"	"4971201"				
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L31	13	brunner AND weinerth	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:19 PM
L32	22	("10583962").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:20 PM
L33	198	("2042387" "2430200" "2970358" "3005282" "3117692" "3506321" "3974898" "4168076" "5035445" "5105947" "5240264" "5301829" "5429260" "5595228" "5608603" "5628443" "D395533" "5797617" "5951037" "5988473" "6050660" "6085925" "6109627" "6176559" "D437669" "6347847" "6367631" "6371320" "D456972" "6431580" "6547347" "6601930" "6619772" "6637707"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:21 PM

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L34	39	("2018/0161975").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:21 PM
L35	182	("2042387" "2430200" "2970358" "3117692" "3506321" "3974898" "4168076" "5035445" "5105947" "5240264" "5301829" "5429260" "5595228" "5608603" "5628443" "5797617" "5951037" "5988473" "6050660" "6085925" "6109627" "6176559" "6347847" "6367631" "6371320" "6431580" "6547347" "6601930" "6619772" "6637707" "6641013" "6945546" "6948691" "6983946" "7044484" "7066475" "D525789" "7147243" "7263742" "7367571" "7503569" "7658887" "7780026" "7841144" "D630851" "8028845" "8132819" "8177463" "8191910" "D663952" "D664354" "D674605" "8454033" "8459495" "8677661" "D701696" "8689396" "8714355" "8813960" "8875888" "8985922" "9132543" "D753394" "D753395" "D765974" "D770179" "9506489" "9566990" "9616562" "9643629" "D790221" "9701443" "9872562" "D814187" "D833744" "D837515" "10434638" "20020000440" "20020171228" "20030115715" "20030146589" "20030184034" "20030205877" "20040103494"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:22 PM

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L36	9	("10703534" "10583962" "10981696" "11027883" "11192690" "11365026" "11427382" "11465805" "11008136" "10981696").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:25 PM
L37	1	"10981696".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:26 PM
L38	1	("11008136").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:26 PM
L39	9	("10703534" "10583962" "10981696" "11027883" "11192690" "11365026" "11427382" "11465805" "11008136" "10981696").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:27 PM
L40	16	("10703534" "10583962" "10981696" "11027883" "11192690" "11365026" "11427382" "11465805" "11008136" "10981696").pn.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/02/15 02:27 PM
L41	16	("10703534," "10583962," "10981696," "11027883," "11192690," "11365026," "11427382," "11465805,"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2023/02/15 02:32 PM

		"11008136," "10981696").pn.	MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN), FPRS, EPO; JPO, DERWENT; IBM_TDB)				
L42	9	("10703534," "10583962," "10981696," "11027883," "11192690," "11365026," "11427382," "11465805," "11008136," "10981696").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:32 PM
L43	1	"10703534".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:34 PM
L44	1	"10583962".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:35 PM
L45	3	L42 AND toggle.clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 02:38 PM
L46	0	L42 AND bumper.clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 03:02 PM
L47	9	L42 AND perpendicular.clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 03:02 PM
L48	0	L42 AND (perpendicular ADJ "the" ADJ locking).clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 03:03 PM
L49	1	L42 AND (perpendicular adj3 locking).clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 03:03 PM
L50	4	L42 AND (spring).clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 03:04 PM
L51	4	L42 AND (spring ADJ biased).clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 03:06 PM
L52	1	L42 AND ((spring ADJ biased) AND toggle).clm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 03:07 PM
L53	1	"11365026".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 08:16 PM
L54	63	((US-D936030-S OR US-11066089-B2 OR US-9725209-B1 OR US-9132543-B2 OR US-8925752-B2 OR US-8132819-B2 OR US-D630851-S OR US- 7367571-B1 OR US- 6082539-A OR US- 5906383-A OR US- 3811747-A OR US- D844324-S OR US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	OR	ON	ON	2023/02/15 08:46 PM

		11529985-B2 OR US- 10894314-B2 OR US- 11510486-B2 OR US- D967693-S OR US- 11426859-B2 OR US- 11385055-B2 OR US- 11283117-B2 OR US- D935771-S OR US- D932186-S OR US- D923935-S OR US- D917977-S OR US- D897103-S OR US- D896517-S OR US- D896518-S OR US- D893183-S OR US- 10583962-B2 OR US- 9616562-B2 OR US- 11338959-B2 OR US- 10981696-B2 OR US- 10703534-B2 OR US- 11008136-B2 OR US- 11027883-B1 OR US- 11192690-B1 OR US- 11365026-B2 OR US- 11427382-B2 OR US- 11465805-B2).did. AND USPT.dbnm.) OR ((US- 20190001482-A1 OR US-20190002004-A1 OR US-20180213934- A1 OR US- 20180044059-A1 OR US-20170318927-A1 OR US-20160023349- A1 OR US- 20130127129-A1 OR US-20130031732-A1 OR US-20120326406- A1 OR US- 20120292213-A1 OR US-20120152944-A1 OR US-20120080432- A1 OR US- 20110139665-A1 OR US-20100052276-A1 OR US-20090288970- A1 OR US- 20070273114-A1 OR US-20030075468-A1 OR US-20190225371- A1 OR US- 20170257958-A1 OR US-20210154824-A1 OR US-20200317392- A1 OR US- 20180161975-A1 OR US-20070138041-A1 OR US-20060042996-	TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
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		A1 OR US- 20210316909-A1).did. AND PGPB.dbnm.)					
L55	20	L54 NOT L15	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO, DERWENT; IBM_TDB)	OR	ON	ON	2023/02/15 08:46 PM
L56	20	L54 NOT L15	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/02/15 08:46 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Bibliographic Data

Application No: 18/051,749

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /GIDEON R WEINERTH/

Examiner's Signature

Initials

Title: Utility Assembly and Coupling Mechanism

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/01/2022	220	3736	066749-3677
RULE			

APPLICANTS

Milwaukee Electric Tool Corporation, Brookfield, WI, UNITED STATES

Keter Plastic LTD., Herzelyia, ISRAEL

INVENTORS

Yaron Brunner, Kibbutz Gvat, ISRAEL

Grant T. Squiers,

Christopher S. Hoppe,

Steven W. Hyma,

CONTINUING DATA

This application is a CON of 17884230 08/09/2022

17884230 is a CON of 17064371 10/06/2020 PAT 11427382

17064371 is a CON of 16752441 01/24/2020 PAT 11008136

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

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

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

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

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

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

12/09/2022

STATE OR COUNTRY

ISRAEL

ADDRESS

Reinhart (Milwaukee Tool)

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1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202
UNITED STATES

FILING FEE RECEIVED

\$6,160

Application 18051749 Filed Nov. 1, 2022	US Patent 11365026 Published June 21, 2022
21. A container assembly comprising: a first container comprising: a first coupler extending from a top face of the first container, the first coupler comprising two sidewalls, a back wall, and a rib, the back wall located between the two sidewalls, the two sidewalls and the back wall projecting above a depressed surface of the top face, and the rib extending away from the back wall in a first direction; a lid pivotally attached to the first container; and a first toggle locking latch configured to latch the lid of the first container in a closed position; and a second container comprising: a second coupler extending from the second container, the second coupler comprising a tongue extending in a direction parallel to a bottom face of the second container, the tongue extends in a second direction opposite the first direction, the tongue of the second container is engageable with the rib of the first container <i>such that the tongue engages between the rib and the depressed surface</i>; a lid pivotally attached to the second container; and a toggle locking latch configured to latch the lid of the second container in a closed position; wherein the first and second couplers of the first and second containers engage each other when the first and second containers are slid with respect to each other along a sliding path defined by the rib and the tongue; a locking latch arresting location defined by one of the first container or the second container; and a locking latch coupled to the other of the first container or the second container, the	1. A container assembly comprising: a first container comprising: a first coupler extending from a first face of the first container, the first coupler comprising two sidewalls, a back wall, and a rib, the back wall located between the two sidewalls, the two sidewalls and the back wall projecting from a depressed surface of the first face, and the rib extending from the back wall in a first direction; a lid pivotally attached to the first container; and a toggle locking latch configured to latch the lid of the first container in a closed position; a second container comprising: a second coupler extending from a second face of the second container, the second coupler comprising a tongue offset from the second face, the tongue extends in a second direction opposite the first direction, the tongue of the second container is engageable with the rib of the first container; a lid pivotally attached to the second container; and a toggle locking latch configured to latch the lid of the second container in a closed position; wherein the first and second couplers of the first and second containers engage each other when the first and second containers are slid with respect to each other along a sliding path defined by the rib and the tongue; a locking latch arresting location defined by one of the first container or the second container; and a locking latch coupled to the other of the first container or the second container, the locking latch positionable in a locked position engaging the locking latch arresting location

locking latch positionable in a locked position engaging the locking latch arresting location thereby limiting sliding displacement of the first container with respect to the second container.	thereby limiting sliding displacement of the first container with respect to the second container.
23. The container assembly of claim 21, wherein the sliding path is perpendicular to the locking latch.	2. The container assembly of claim 1, wherein the sliding path is perpendicular to the locking latch.
24. (New) The container assembly of claim 21, wherein the locking latch is spring biased to engage with the locking latch arresting location.	4. The container assembly of claim 3, wherein the locking latch is spring biased to engage with the locking latch arresting location.
25. The container assembly of claim 21, wherein a width of the second container is half of a width of the first container, and the second container is located on top of the first container.	8. The container assembly of claim 1, wherein a width of the second container is half of a width of the first container, and the second container is located on top of the first container.
26. The container assembly of claim 21, wherein the first container further comprises a handle coupled to a front face of the first container and a second toggle locking latch configured to latch the lid of the first container in a closed position, wherein the handle is located between the first and second toggle locking latches of the first container.	9. The container assembly of claim 8, wherein the first container further comprises a second toggle locking latch configured to latch the lid of the first container in a closed position. 10. The container assembly of claim 9, wherein the first container further comprises a handle coupled to a front face of the first container, wherein the handle is located between the first and second toggle locking latches.
29. (New) The container assembly of claim 21, wherein the first container further comprises a pair of rear wheels and a telescoping handle extending upwards from a rear wall of the first container.	11. The container assembly of claim 1, wherein the second container further comprises a pair of rear wheels and a telescoping handle extending upwards from a rear wall of the second container.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/051,749	11/01/2022	Yaron Brunner	066749-3677	9909
142078	7590	01/17/2023		
Reinhart (Milwaukee Tool)			EXAMINER	
ATTN: TRAVIS MCDONNELL, PARALEGAL			CENTRAL, DOCKET	
1000 NORTH WATER STREET				
SUITE 2100			ART UNIT	PAPER NUMBER
MILWAUKEE, WI 53202			OPAP	
			NOTIFICATION DATE	DELIVERY MODE
			01/17/2023	ELECTRONIC

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

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

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

IPAdmin@reinhardtllaw.com

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 18/051,749	Applicant(s) Brunner et al.	
	Examiner CHERYL P GIBSON BAYLOR	Art Unit OPET	AIA (FITF) Status Yes
1. THE REQUEST FILED <u>01 November 2022</u> IS GRANTED . The above-identified application has met the requirements for prioritized examination A. ☒ for an original nonprovisional application (Track I). B. ☐ for an application undergoing continued examination (RCE). 2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs: A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply; B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim; C. filing a <u>request for continued examination</u> ; D. filing a notice of appeal; E. filing a request for suspension of action; F. mailing of a notice of allowance; G. mailing of a final Office action; H. completion of examination as defined in 37 CFR 41.102; or I. abandonment of the application. Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.			
/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET			



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
18/051,749	11/01/2022		1820	066749-3677	14	2

CONFIRMATION NO. 9909

FILING RECEIPT



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142078

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Date Mailed: 12/12/2022

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

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

Inventor(s)

Yaron Brunner, Kibbutz Gvat, ISRAEL;
Grant T. Squiers, Cudahy, WI;
Christopher S. Hoppe, Midvale, UT;
Steven W. Hyma, Milwaukee, WI;

Applicant(s)

Milwaukee Electric Tool Corporation, Brookfield, WI;
Keter Plastic LTD., Herzelyia, ISRAEL;

Power of Attorney: The patent practitioners associated with Customer Number 142078

Domestic Priority data as claimed by applicant

This application is a CON of 17/884,230 08/09/2022
which is a CON of 17/064,371 10/06/2020 PAT 11,427,382
which is a CON of 16/752,441 01/24/2020 PAT 11,008,136
which is a CON of 16/216,724 12/11/2018 PAT 10,583,962
which is a CON of 15/826,232 11/29/2017 PAT 10,703,534
which is a CON of PCT/IL2017/050481 04/30/2017
which claims benefit of 62/459,076 02/15/2017
and claims benefit of 62/330,334 05/02/2016

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 12/09/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/051,749**

Projected Publication Date: 03/23/2023

Non-Publication Request: No

Early Publication Request: No

Title

Utility Assembly and Coupling Mechanism

Preliminary Class

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign

page 2 of 4

patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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MULTIPLE DEPENDENT CLAIM FEE CALCULATION SHEET Substitute for Form PTO-1360 (For use with Form PTO/SB/06)							Application Number 18/051,749		Filing Date				
							Applicant(s) Yaron Brunner						
							* May be used for additional claims or amendments						
CLAIMS	AS FILED		AFTER FIRST AMENDMENT		AFTER SECOND AMENDMENT			*		*		*	
	Indep	Depend	Indep	Depend	Indep	Depend		Indep	Depend	Indep	Depend	Indep	Depend
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PATENT APPLICATION FEE DETERMINATION RECORD						Application or Docket Number 18/051,749				
Substitute for Form PTO-875										
APPLICATION AS FILED - PART I										
		(Column 1)	(Column 2)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY		
FOR		NUMBER FILED		NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)	
BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A	N/A			N/A	320	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A	N/A			N/A	700	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A	N/A			N/A	800	
TOTAL CLAIMS (37 CFR 1.16(i))	14	minus 20 =		0			OR	x	= 0	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2	minus 3 =						x	= 0	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								0	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									0	
					TOTAL			TOTAL	1820	
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
		(Column 1)	(Column 2)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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I hereby appoint:



Practitioners associated with Customer Number:

142078

OR

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

Name	Registration Number

Name	Registration Number

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

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



The address associated with Customer Number:

142078

OR

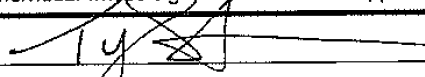
☐	Firm or Individual Name			
☐	Address			
	City	State	Zip	
	Country			
	Telephone	Email		

Assignee Name and Address: Milwaukee Electric Tool Corporation
13135 West Lisbon Road
Brookfield, Wisconsin 53002

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

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

Signature		Date	7-6-16
Name	Ty Stawski	Telephone	262-781-3600
Title	Vice President, Secretary and Treasurer		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to 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 3 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

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/051,749

RECEIPT DATE / TIME
12/08/2022 01:58:44 PM ET

ATTORNEY DOCKET #
066749-3677

Title of Invention

Utility Assembly and Coupling Mechanism

Application Information

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

PATENT # -

CONFIRMATION # 9909

FILED BY Sarah Sesterhenn-Lee

PATENT CENTER # 61271675

FILING DATE -

CUSTOMER # 142078

FIRST NAMED INVENTOR Yaron Brunner

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Derek Campbell

Documents

TOTAL DOCUMENTS: 5

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
066749-3677_MT_PoA.pdf	1	Power of Attorney	38 KB
066749-3677_Transmittal_for_POAs_and_3_73_Statements.pdf	2	Transmittal Letter	72 KB
066749-3677-3_73_Statement_MT.pdf	3	Assignee showing of ownership per 37 CFR 3.73	83 KB
066749-3677-executed_POA_Keter.pdf	1	Power of Attorney	447 KB
066749-3677-3_73_Statement_Keter.pdf	3	Assignee showing of ownership per 37 CFR 3.73	83 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
066749-3677_MT_PoA.pdf	27E1DE937A75B91E41C9F3671B325CE11EABD138A6C144506 A616812C814237B24BBA4D820BF71FAA068E5CA6AD9B9EEF4 5FF77DC071E34ACD79062213C02A07
066749- 3677_Transmittal_for_POAs_and_3_73_Statements.pdf	9929571BD693DD69D8E0108B5E74A8F9F238B8ABF1FCD9A3E 54F4CEE7D2040D8D3B065C980311BC94E5F663FBA9BF46A0B 63A082FB8326F8F975FCCF8C069D8C
066749-3677- 3_73_Statement_MT.pdf	3820A5F610768402BAF48C1B9DC6FA7B1DF1751DF5A13FADB F62ADB065680A4DF5E84A5F44BAA8867E75F68119EDA72103 806B1D4CDE4325B57CD0F7C5B5F9C0
066749-3677- executed_POA_Keter.pdf	96347F706E2C0728BABA6F5DCBC499B56CB7F37DC0185019E CD8B58DDF7B6C2264BF3F1F8C4EE314A1B388AEB61A8996 CC1071A85EE632C1B25D7534C001E9F
066749-3677- 3_73_Statement_Keter.pdf	E18BA4384CDDA17FA255D2D73F35BAA6BC6F95CBB54BECD C7ACAFE7C4BD8D055BD3D6B07CB45FB6B45DC25CC6ABFF1 4078E8AA83C715FBD6AA062EA6B6640ED0

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 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.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date
18/051,749	November 1, 2022

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☒ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

OR

142078

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Keter Plastic Ltd.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

Name

Title

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 3 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 et al.

Title: Utility Assembly and Coupling Mechanism

Appl. No.: 18/051,749

Filing Date: November 1, 2022

Examiner: To be determined

Art Unit: To be determined

Confirmation Number: 9909

TRANSMITTAL OF POWER OF ATTORNEYS AND 3.73 STATEMENTS FOR APPLICANTS

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

Submitted herewith is a “Statement Under 37 CFR 3.73(c)” for each of (1) Milwaukee Electric Tool Corporation and (2) Keter Plastic LTD., establishing that Milwaukee Electric Tool Corporation and Keter Plastic LTD. collectively are the owner and the assignee of the entire right, title and interest in the above-referenced application. Also submitted herewith is a signed power of attorney for each of (1) Milwaukee Electric Tool Corporation and (2) Keter Plastic LTD.

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.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date December 8, 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

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Milwaukee Electric Tool Corporation

Application No./Patent No.: 18/051,749 Filed/Issue Date: November 1, 2022

Titled: Utility Assembly and Coupling Mechanism

Milwaukee Electric Tool Corporation, a corporation

(Name of Assignee)

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

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

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

Keter Plastics LTD.

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

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

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

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

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

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 061631, Frame 0893, or for which a copy thereof is attached.

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

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Derek H. Campbell/

Signature

Derek H. Campbell

Printed or Typed Name

December 8, 2022

Date

70,608

Title or Registration Number

Privacy Act Statement

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

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

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

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Keter Plastic LTD
Application No./Patent No.: 18/051,749 Filed/Issue Date: November 1, 2022
Titled: Utility Assembly and Coupling Mechanism
Keter Plastic LTD, a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

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

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

Milwaukee Electric Tool Corporation

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

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

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

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

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

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 061631, Frame 0917, or for which a copy thereof is attached.

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

1. From: _____ To: _____

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

2. From: _____ To: _____

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

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Derek H. Campbell/

Signature

Derek H. Campbell

Printed or Typed Name

December 8, 2022

Date

70,608

Title or Registration Number

Privacy Act Statement

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

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

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

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: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	1	of	21	Attorney Docket Number	066749-3677

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	495,537	04-18-1893	Westerman	
	A2	509,839	11-28-1893	Bowley	
	A3	1,081,378	12-16-1913	Freeman	
	A4	1,084,360	01-13-1914	Rahm	
	A5	2,042,387	05-26-1936	COBB DAVID F	
	A6	2,103,106	12-21-1937	Yurkovitch	
	A7	2,124,541	07-26-1938	Cassey	
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	A9	2,386,343	10-09-1945	Regenhardt	
	A10	2,430,200	11-04-1947	Wilson Winfred E.	
	A11	2,588,009	03-04-1952	Jones	
	A12	2,939,613	06-07-1960	Herman et al.	
	A13	2,970,358	02-07-1961	E. C. Elsner	
	A14	3,117,692	01-14-1964	Carpenter et al.	
	A15	3,225,865	12-28-1965	J. W. Downey	
	A16	3,370,236	02-20-1968	Walker	
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	A30	4,168,076	09-18-1979	Johnson	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	2	of	21	Attorney Docket Number	066749-3677

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
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	A33	4,564,732	01-14-1986	Lancaster et al.	
	A34	4,660,725	04-28-1987	Fishman et al.	
	A35	4,673,070	06-16-1987	Ambal	
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	A40	4,971,201	11-20-1990	Sathre	
	A41	5,035,389	07-30-1991	Wang	
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	A46	5,240,264	08-31-1993	Williams	
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				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	3	of	21	Attorney Docket Number	066749-3677

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
	A63	5,664,292	09-09-1997	Chen	
	A64	5,775,046	07-07-1998	Fanger et al.	
	A65	5,797,617	08-25-1998	Lin Shiou Chang	
	A66	5,850,996	12-22-1998	Liang	
	A67	5,890,613	04-06-1999	Williams	
	A68	5,951,037	09-14-1999	Hsieh Hung-Ching	
	A69	5,957,421	09-28-1999	Barbour	
	A70	5,988,473	11-23-1999	Hagan et al.	
	A71	6,036,071	03-14-2000	Hartmann et al.	
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	A73	6,082,539	07-04-2000	Lee	
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	A76	6,098,858	08-08-2000	Laugesen	
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				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	4	of	21	Attorney Docket Number	066749-3677

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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
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	A96	6,666,362	12-23-2003	LeTrudet	
	A97	6,889,838	05-10-2005	Meier et al.	
	A98	6,945,546	09-20-2005	Edward G. Guirlinger	
	A99	6,948,691	09-27-2005	Brock et al.	
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	A104	7,077,372	07-18-2006	Moran	
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Sheet	5	of	21	Attorney Docket Number	066749-3677

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	A128	8,454,033	06-04-2013	Tsai	
	A129	8,459,495	06-11-2013	Koenig; Andreas	
	A130	8,505,729	08-13-2013	Sosnovsky et al.	
	A131	8,567,796	10-29-2013	Bar-Erez et al.	
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	A138	8,851,282	10-07-2014	Brunner	
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	A148	9,566,990	02-14-2017	Bar-Erez; Sharon	
	A149	9,616,562	04-11-2017	Hoppe; Christopher S.	
	A150	9,643,629	05-09-2017	The Stanley Works Israel Ltd.	
	A151	9,701,443	07-11-2017	Wang; Tzu-Chien	
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	A155	9,888,752	02-13-2018	Den Boer et al.	
	A156	10,017,134	07-10-2018	Pickens et al.	
	A157	10,106,180	10-23-2018	Bar-Erez et al.	
	A158	10,222,172	03-05-2019	Melville	

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	A160	10,434,638	10-08-2019	Tsai	
	A161	10,583,962	03-10-2020	Brunner et al.	
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	A185	2003/0094393	05-22-2003	Sahm, III	
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	A187	2003/0146589	08-07-2003	Jarko et al.	
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	A190	2004/0074725	04-22-2004	Shih	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	7	of	21	Attorney Docket Number	066749-3677

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
	A191	2004/0103494	06-03-2004	Valentini	
	A192	2004/0149754	08-05-2004	Diamant	
	A193	2004/0195793	10-07-2004	Sullivan, Hugh C., et al.	
	A194	2004/0206656	10-21-2004	Dubois et al.	
	A195	2004/0256529	12-23-2004	Richter	
	A196	2005/0015928	01-27-2005	Arsenault et al.	
	A197	2005/0062244	03-24-2005	Guirlinger	
	A198	2005/0104308	05-19-2005	Barnes	
	A199	2005/0139745	06-30-2005	Liao, Chi-Cheng	
	A200	2005/0242144	11-03-2005	Panosian et al.	
	A201	2006/0006770	01-12-2006	Valentini	
	A202	2006/0027475	02-09-2006	Gleason et al.	
	A203	2006/0038367	02-23-2006	Ferraro; Frank A.	
	A204	2006/0076261	04-13-2006	Kurtenbach	
	A205	2006/0119060	06-08-2006	Sullivan et al.	
	A206	2006/0165482	07-27-2006	Olberding	
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	A208	2006/0254946	11-16-2006	Becklin	
	A209	2007/0006542	01-11-2007	Duke	
	A210	2007/0045505	03-01-2007	Chen	
	A211	2007/0068757	03-29-2007	Tan	
	A212	2007/0090616	04-26-2007	Tompkins	
	A213	2007/0145700	06-28-2007	Ambrose et al.	
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	A215	2007/0273114	11-29-2007	Katz	
	A216	2008/0060953	03-13-2008	Ghassan	
	A217	2008/0104921	05-08-2008	Pervan; Darko	
	A218	2008/0115312	05-22-2008	DiPasquale et al.	
	A219	2008/0121547	05-29-2008	Dur et al.	
	A220	2008/0134607	06-12-2008	Pervan; Darko	
	A221	2008/0169739	07-17-2008	Goldenberg; Ruth	
	A222	2008/0271280	11-06-2008	FUCHS FRANK et al.	

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				Art Unit	To be determined
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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
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	A224	2008/0280523	11-13-2008	Bishop	
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	A226	2008/0308369	12-18-2008	Louis; Robert D.	
	A227	2009/0026901	01-29-2009	Nies, III et al.	
	A228	2009/0071990	03-19-2009	Jardine et al.	
	A229	2009/0127146	05-21-2009	Krebs et al.	
	A230	2009/0145790	06-11-2009	Panosian; Michael Harmik	
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	A233	2009/0178946	07-16-2009	Patstone et al.	
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	A235	2009/0288970	11-26-2009	Katz et al.	
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	A238	2010/0147642	06-17-2010	Andochick; Scott E.	
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				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
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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
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	A256	2012/0180250	07-19-2012	KAERCHER GMBH AND CO ALFRED KG	
	A257	2012/0207571	08-16-2012	Scott, Charles Shay	
	A258	2012/0292213	11-22-2012	Brunner	
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	A260	2013/0024468	01-24-2013	Kocsis, Susan C.	
	A261	2013/0031731	02-07-2013	KAERCHER GMBH AND CO ALFRED KG	
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	A263	2013/0068903	03-21-2013	Peerless Ind Inc.	
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	A274	2014/0161518	06-12-2014	KO	
	A275	2014/0166516	06-19-2014	Martinez; Mark R.	
	A276	2014/0197059	07-17-2014	Evans et al.	
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	A278	2015/0034515	02-05-2015	Monyak et al.	
	A279	2015/0151427	06-04-2015	Ben-Gigi	
	A280	2015/0274362	10-01-2015	CHRISTOPHER et al.	
	A281	2015/0310842	10-29-2015	Coburn et al.	
	A282	2015/0376917	12-31-2015	Brunner	
	A283	2016/0023349	01-28-2016	Milwaukee Electric Tool Corporation	

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				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
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Sheet	10	of	21	Attorney Docket Number	066749-3677

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	A284	2016/0130034	05-12-2016	Kuhls; Timo	
	A285	2016/0144500	05-26-2016	CHEN; KUN-CHEN	
	A286	2016/0168880	06-16-2016	Phelan; Matthew	
	A287	2016/0213115	07-28-2016	Gonitiner et al.	
	A288	2016/0221177	08-04-2016	Reinhart	
	A289	2017/0121056	05-04-2017	Wang; Tzu-Chien	
	A290	2017/0138382	05-18-2017	Ko	
	A291	2017/0158216	06-08-2017	Yahav et al.	
	A292	2017/0165828	06-15-2017	Festool GmbH	
	A293	2017/0166352	06-15-2017	Hoppe; Christopher S.	
	A294	2017/0174392	06-22-2017	De Loynes	
	A295	2017/0217464	08-03-2017	Bar-erez et al.	
	A296	2017/0239808	08-24-2017	Hoppe; Christopher S.	
	A297	2017/0257958	09-07-2017	The Stanley Works Israel Ltd.	
	A298	2017/0266804	09-21-2017	Kinsky	
	A299	2017/0318927	11-09-2017	Krause et al.	
	A300	2017/0349013	12-07-2017	GRONHOLM	
	A301	2018/0044059	02-15-2018	BRUNNER; Yaron	
	A302	2018/0099405	04-12-2018	Reinhart	
	A303	2018/0127007	05-10-2018	Kravchenko	
	A304	2018/0153312	06-07-2018	Buck James et al.	
	A305	2018/0161975	06-14-2018	Brunner; Yaron	
	A306	2018/0186513	07-05-2018	Brunner	
	A307	2018/0213934	08-02-2018	Wolle et al.	
	A308	2018/0220758	08-09-2018	Rothenberg AG	
	A309	2018/0229889	08-16-2018	Li	
	A310	2018/0290288	10-11-2018	BRUNNER; Yaron	
	A311	2019/0001482	01-03-2019	Wolle et al.	
	A312	2019/0002004	01-03-2019	BRUNNER; Yaron	
	A313	2019/0031222	01-31-2019	TAKYAR et al.	
	A314	2019/0039781	02-07-2019	Kogel	
	A315	2019/0106244	04-11-2019	Brunner et al.	

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				Examiner Name	To be determined
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	A316	2019/0168376	06-06-2019	Brocket et al.	
	A317	2019/0225371	07-25-2019	Hoppe et al.	
	A318	2020/0029543	01-30-2020	Householder	
	A319	2020/0055534	02-20-2020	HASSELL	
	A320	2020/0078929	03-12-2020	Liu	
	A321	2020/0147781	05-14-2020	Squiers et al.	
	A322	2020/0165036	05-28-2020	Squiers et al.	
	A323	2020/0223585	07-16-2020	Brunner et al.	
	A324	2020/0243925	07-30-2020	Polakowski et al.	
	A325	2020/0299027	09-24-2020	Brunner et al.	
	A326	2020/0346819	11-05-2020	Kogel et al.	
	A327	2021/0025706	01-28-2021	Millane	
	A328	2021/0031975	02-04-2021	Brunner et al.	
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	A331	2021/0104909	04-08-2021	Mantych	
	A332	2021/0155373	05-27-2021	Cai	
	A333	2021/0187725	06-24-2021	Brunner	
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	A340	D325,324	04-14-1992	Kahl	
	A341	D326,815	06-09-1992	Meisner et al.	
	A342	D340,167	10-12-1993	Kahl	
	A343	D352,208	11-08-1994	Brookshire	
	A344	D361,511	08-22-1995	Dickinson et al.	
	A345	D395,533	06-23-1998	Morison et al.	
	A346	D415,393	10-19-1999	Kei	
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	A348	D437,484	02-13-2001	Tiramani et al.	
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	A350	D456,972	05-07-2002	BLASON et al.	
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	A352	D527,225	08-29-2006	Krieger et al.	
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	A358	D661,858	06-12-2012	Lifshitz et al.	
	A359	D663,952	07-24-2012	CREVLING et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	13	of	21	Attorney Docket Number	066749-3677

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
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	A381	D826,510	08-21-2018	Brunner	
	A382	D828,671	09-11-2018	COPE et al.	
	A383	D831,352	10-23-2018	Brunner	
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				First Named Inventor	Yaron Brunner
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U.S. PATENT DOCUMENTS					
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	A412	D918,584	05-11-2021	Brunner et al.	
	A413	D919,296	05-18-2021	Brunner et al.	
	A414	D920,671	06-01-2021	Brunner et al.	
	A415	D923,935	07-06-2021	Brunner et al.	
	A416	D932,186	10-05-2021	Brunner et al.	
	A417	D936,030	11-16-2021	Lee et al.	
	A418	D941,020	01-18-2022	Brunner et al.	
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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						
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	A420	CN101068661	11-07-2007	BOSCH GMBH ROBERT		
	A421	CN102137795	07-27-2011	TTS ToolTechnic Systems AG		
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	A427	CN103659777	03-26-2014	Bosch GMBH Robert		
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
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	A431	CN302371147	03-27-2013	吉田攻一郎		
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				Art Unit	To be determined
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Sheet	16	of	21	Attorney Docket Number	066749-3677

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
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	A476	JP2013022972	02-04-2013	IZUMI DOI, HIDEKI NOMA, MASAYUKI NAKANISHI		
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
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	A504	WO2007/121746	11-01-2007	J.O. MADSEN APS; MADSEN JENS OLE		
	A505	WO2007121745A1	11-01-2007	MADSEN JENS OLE		
	A506	WO2009/140965	11-26-2009	J.O. MADSEN APS; MADSEN JENS OLE		
	A507	WO2011/009480	01-27-2011	HENSEL MAIC; HESS STEFAN; KAERCHER GMBH & CO KG		
	A508	WO2013/026084	02-28-2013	CONNOR PAUL FRANCIS; DEMAIN TECHNOLOGY PTY LTD.		
	A509	WO2014/125488	08-21-2014	KETER PLASTIC LTD		

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	A510	WO2016142935	09-15-2016	BRUNNER, Yaron et al.		
	A511	WO2017/212840	12-14-2017	GENESIS CO., LTD.		
	A512	WO2017028845	02-23-2017	ROTHENBERGER AG		
	A513	WO2017191628	11-09-2017	BRUNNER YARON		

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
	A514	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.	
	A515	Exhibit 1001 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 64 pages.	
	A516	Exhibit 1002 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 75 pages.	
	A517	Exhibit 1003 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 13 pages.	
	A518	Exhibit 1004 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 18 pages.	
	A519	Exhibit 1005 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 9 pages.	
	A520	Exhibit 1006 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 176 pages.	
	A521	Exhibit 1007 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 22 pages.	
	A522	Exhibit 1008 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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*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.

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	19	of	21	Attorney Docket Number	066749-3677

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
	A523	Exhibit 1009 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 24 pages.	
	A524	Exhibit 1010 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 19 pages.	
	A525	Exhibit 1011 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 26 pages.	
	A526	Exhibit 1012 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 3 pages.	
	A527	Exhibit 1013 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 168 pages.	
	A528	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.	
	A529	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.	
	A530	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.	
	A531	Exhibit 1015 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	
	A532	Exhibit 1016 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 242 pages.	
	A533	Exhibit 1017 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 6 pages.	
	A534	Exhibit 1018 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 250 pages.	
	A535	Exhibit 1019 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 44 pages.	

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	20	of	21	Attorney Docket Number	066749-3677

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
	A536	Exhibit 1020 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 5 pages.	
	A537	Exhibit 1021 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 1 page.	
	A538	Exhibit 1022 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 1 page.	
	A539	Exhibit 1023 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 24 pages.	
	A540	Exhibit 1024 in Petition for Inter Partes Review of U.S. Pat. No. 10,583,962, filed January 5, 2021, 28 pages.	
	A541	"Blitz Box – Portable Storage Box / Shelf," The Green Head Finds Cool New Stuff, https://www.thegreenhead.com/2013/03/blitz-box-portable-storage-box-shelf.php , Per Wayback, website dates back to February 15, 2015, 5 pages.	
	A542	"BluCave Universal Storage System," BATAVIA Tools to Build, https://batavia.eu/blucave-storage-system/ , believed to be available at least as early as November 29, 2017, 5 pages.	
	A543	"Dewalt TSTAK Carrier Trolley," ITS, https://www.its.co.uk/pd/171229-Dewalt-TSTAK-Carrier-Trolley-DEW171229.htm , Per Wayback, website dates back to May 2, 2015, 2 pages.	
	A544	"DeWalt TSTAK Vac Rack (Suits DW DWV902M & DWV900L) DWV9500-XJ," Get Tools Direct, https://www.gettoolsdirect.com.au/dewalt-tstak-vac-rack-suits-dwv902m-and-dwv900l-dwv9500-xj.html , believed to be available at least as early as November 29, 2017, 4 pages.	
	A545	"Hopkins FloTool 91002 Rhino Box with Mount," Amazon.com, https://www.amazon.com/exec/obidos/ASIN/B003K15F3I/20140000-20 , believed to be available at least as early as November 29, 2017, 7 pages.	
	A546	"Tool Skool, TSTAK Phase 2 Upgrades TSTAK Carts – First Look – Tool Skool," YouTube, September 7, 2013, https://www.youtube.com/watch?v=jb06y6J1dr4&feature=youtu.be&t=197 , 1 page.	
	A547	Batavia GmbH, BluCave Storage System, https://protect-us.mimecast.com/s/5XIGCR6KypcgJnIKi9EDoim?domain=batavia.eu , believed to be available at least as early as November 29, 2017, 7 pages.	
	A548	BluCave Video, https://www.youtube.com/watch?v=Sw7fQQPwoOtY&feature=youtu.be&t=32 , believed to be available at least as early as November 29, 2017.	

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: November 4, 2022 <i>(use as many sheets as necessary)</i>				Application Number	18/051,749
				Filing Date	November 1, 2022
				First Named Inventor	Yaron Brunner
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	21	of	21	Attorney Docket Number	066749-3677

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
	A549	International Search Report and Written Opinion for International Application No. PCT/IL2019/050689, dated August 23, 2019, 21 pages.	
	A550	International Search Report and Written Opinion for International Application No. PCT/US2018/033161, dated August 6, 2018, 14 pages.	
	A551	International Search Report and Written Opinion for International Application No. PCT/US2018/044629, dated January 9, 2019, 22 pages.	
	A552	International Search Report and Written Opinion for International Application No. PCT/US2019/014940, dated July 26, 2019, 7 pages.	
	A553	International Search Report and Written Opinion for International Application No. PCT/IL2020/050433, dated June 21, 2020, 14 pages	
	A554	Sortimo Logistix, "Mobile Sortiment", brochure, believed to be available at least as early as November 29, 2017, 17 pages.	
	A555	STUART, "Ryobi ToolBlox Tool Cabinet System!", TOOLGUYD, September 18, 2014, https://toolguyd.com/ryobi-toolblox-cabinets/ , 23 pages.	
	A556	STUART, "Sys-Cart Base, a Systainer Mounting Platform," TOOLGUYD, July 28, 2014, https://toolguyd.com/systainer-sys-cart-mounting-base/ , 11 pages.	
	A557	VERTAK, https://www.alibaba.com/product-detail/Vertak-global-patented-multi-funciton-portable_60217794260.html , believed to be available at least as early as November 29, 2017.	
	A558	Non-Final Rejection issued April 12, 2018, in United States Application No. 15/826,201. (16 Pages) (Docket No. J699501JS01 446373-419).	

Examiner Signature		Date Considered	
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UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/051,749

RECEIPT DATE / TIME
11/04/2022 05:48:47 PM ET

ATTORNEY DOCKET #
066749-3677

Title of Invention

Utility Assembly and Coupling Mechanism

Application Information

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

PATENT # -

CONFIRMATION # 9909

FILED BY Sarah Sesterhenn-Lee

PATENT CENTER # 61144009

FILING DATE -

CUSTOMER # 142078

FIRST NAMED
INVENTOR Yaron Brunner

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY Derek Campbell

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
066749-3677-IDS_Transmittal.pdf	2	Transmittal Letter	86 KB
066749-3677_SB08.pdf	21	Information Disclosure Statement (IDS) Form (SB08)	371 KB

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066749-3677- IDS_Transmittal.pdf	FC744693F568CF50DE3CDF356A0E2B561389DCCB057C27A5 B97741DAF7BF7E19D6570F834F7C72739B9D99C84E41AD6DD F8D56DEBCDC129999471299D1A66A80
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066749-3677_SB08.pdf	71BFD9E26D9B75F11BC2A862D681428629F981DBE9E116BB5 D5E9F17CB4AB0882EA012CE98514080FF8141114E9D6DB13E 1F3C96805257EDA0BA52704FA9B21D
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for 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.: 18/051,749

Filing Date: November 1, 2022

Examiner: To Be Determined

Art Unit: To Be Determined

Confirmation Number: 9909

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 cited by or submitted to the United States Patent & Trademark Office ("USPTO") in parent application Serial No. 17/884,230, filed August 9, 2022. As provided in 37 CFR §1.98(d), copies of documents previously cited in the above-identified patent application are not being provided since they were previously submitted to the USPTO in the above-identified patent application or in a prior related application. Otherwise, copies of each newly cited non-U.S. patent document (if any) and each newly cited non-patent document (if any) are being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

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)(1), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

The relevance of the foreign-language document is shown in the figures of the foreign-language documents and/or are described in the English-language abstract submitted in the parent application, where available. An English non-machine translation of the foreign-language document is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language document (37 CFR §1.98 and MPEP §609).

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 November 4, 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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Milwaukee Electric Tool Corporation et al.

Title: Utility Assembly and Coupling Mechanism

Prior Appl. No.: 17/884,230

Prior Appl.

Filing Date: August 9, 2022

Examiner: To be determined

Art Unit: To be determined

CONTINUING PATENT APPLICATION
TRANSMITTAL LETTER

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

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is a:

☒ Continuation ☐ Division ☐ Continuation-In-Part (CIP)

of the above-identified copending prior application in which no patenting, abandonment, or termination of proceedings has occurred. Priority to the above-identified prior application is hereby claimed under 35 U.S.C. § 120 for this continuing application. The entire disclosure of the above-identified prior application is considered as being part of the disclosure of the accompanying continuing application and is hereby incorporated by reference therein in its entirety.

Enclosed are:

☒ Application Data Sheet (37 CFR 1.76)

☒ Cover Page, Description, Claims and Abstract

☒ Preliminary Amendment

☒ Formal drawings

[X] Copy of Inventor Declaration for parent Application No. 17/884,230, filed August 9, 2022

[X] Power of Attorney from Assignee/Applicant

The requisite fees are being charged to Deposit Account No. 18-0882.

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

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date November 1, 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 Applicants
Registration No. 70,608

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	To be determined
Filing Date	November 1, 2022
First Named Inventor	Yaron Brunner
Title	Utility Assembly and Coupling Mechanism
Art Unit	To be determined
Examiner Name	To be determined
Attorney Docket Number	066749-3677

SIGNATURE of Applicant or Patent Practitioner

Signature	/Derek H. Campbell/	Date (Optional)	November 1, 2022
Name	Derek H. Campbell	Registration Number	70,608
Title (if Applicant is a juristic entity)	Attorney for Applicant		
Applicant Name (if Applicant is a juristic entity)	Milwaukee Electric Tool Corporation		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.



*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 3 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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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:



Practitioners associated with Customer Number:

142078

OR

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

Name	Registration Number

Name	Registration Number

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

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



The address associated with Customer Number:

142078

OR

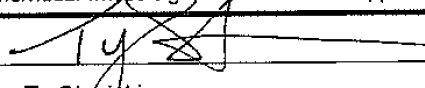
☐	Firm or Individual Name			
☐	Address			
	City	State	Zip	
	Country			
	Telephone	Email		

Assignee Name and Address: Milwaukee Electric Tool Corporation
13135 West Lisbon Road
Brookfield, Wisconsin 53002

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

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

Signature		Date	7-6-16
Name	Ty Stawski	Telephone	262-781-3600
Title	Vice President, Secretary and Treasurer		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to 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 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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APPLICATION #
18/051,749

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ATTORNEY DOCKET #
066749-3677

Title of Invention

Utility Assembly and Coupling Mechanism

Application Information

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

PATENT # -

CONFIRMATION # 9909

FILED BY Sarah Sesterhenn-Lee

PATENT CENTER # 61128252

AUTHORIZED BY Derek Campbell

CUSTOMER # 142078

FILING DATE -

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Yaron Brunner

Payment Information

PAYMENT METHOD
DA / 180882

PAYMENT TRANSACTION ID
E2022A1G52054177

PAYMENT AUTHORIZED BY
Sarah Sesterhenn-Lee

PRE-AUTHORIZED ACCOUNT
180882

PRE-AUTHORIZED CATEGORY
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)

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1830	PROCESSING FEE, EXCEPT IN PROVISIONAL APPLICATIONS	140.00	1	140.00
1817	REQUEST FOR PRIORITIZED EXAMINATION	4200.00	1	4200.00
1111	UTILITY PATENT APPL. SEARCH FEE	700.00	1	700.00
1011	BASIC FILING FEE - UTILITY (PAPER FILING ALSO REQUIRES NON-	320.00	1	320.00

ELECTRONIC FILING FEE UNDER
1.16(T))

1311	PATENT APPL. EXAMINATION FEE	800.00	1	800.00
TOTAL AMOUNT:				\$6,160.00

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

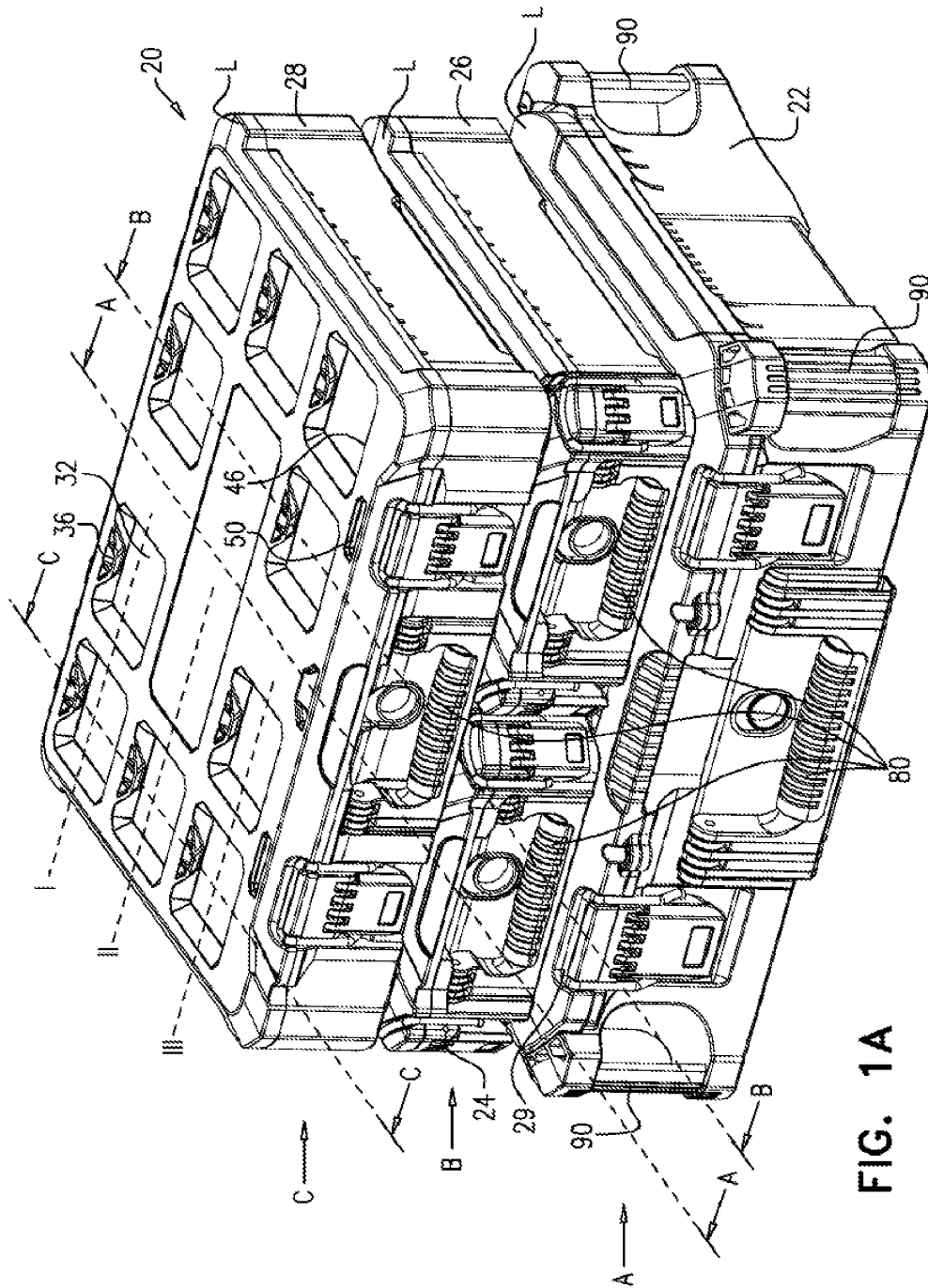


FIG. 1A

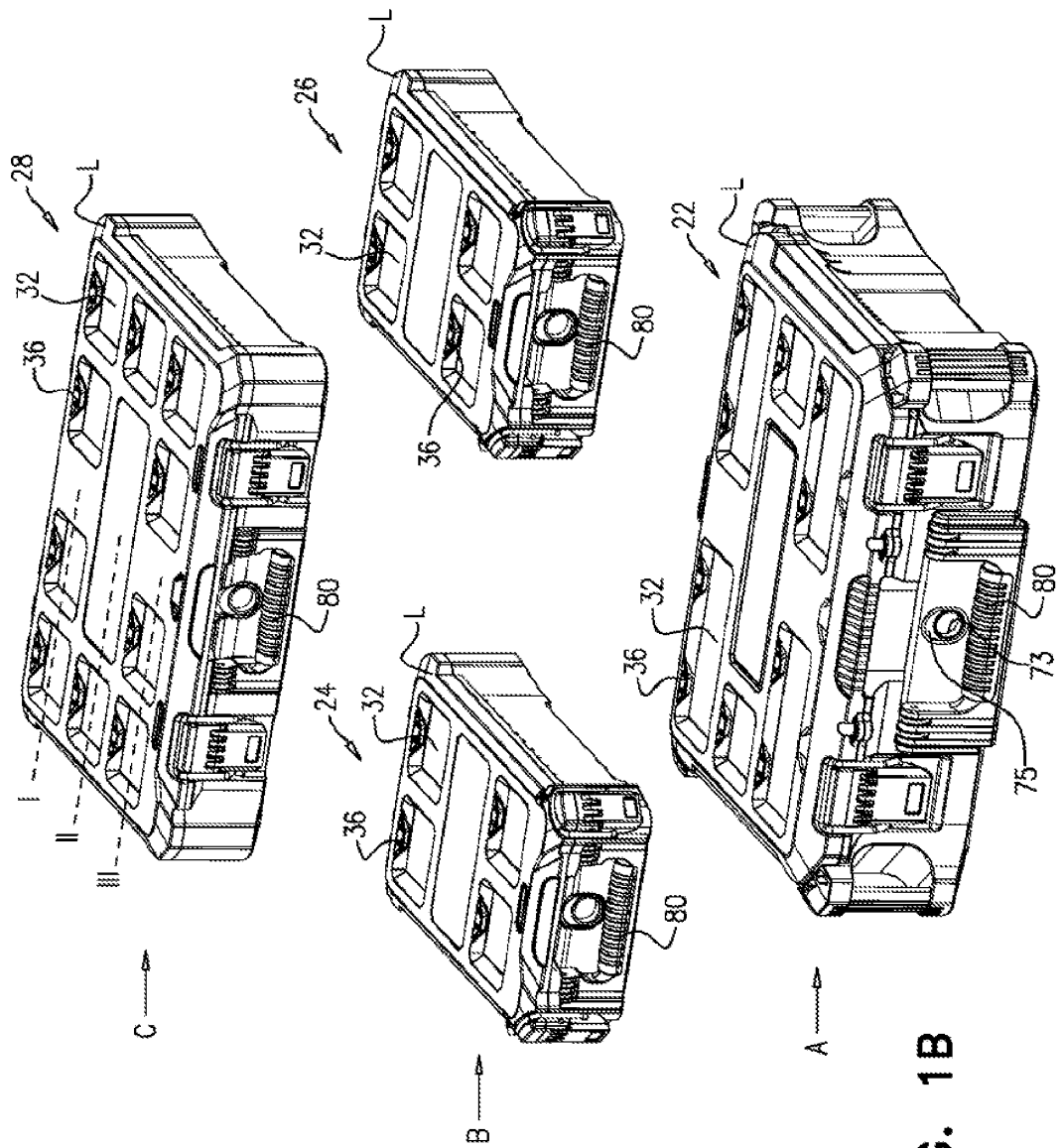


FIG. 1B

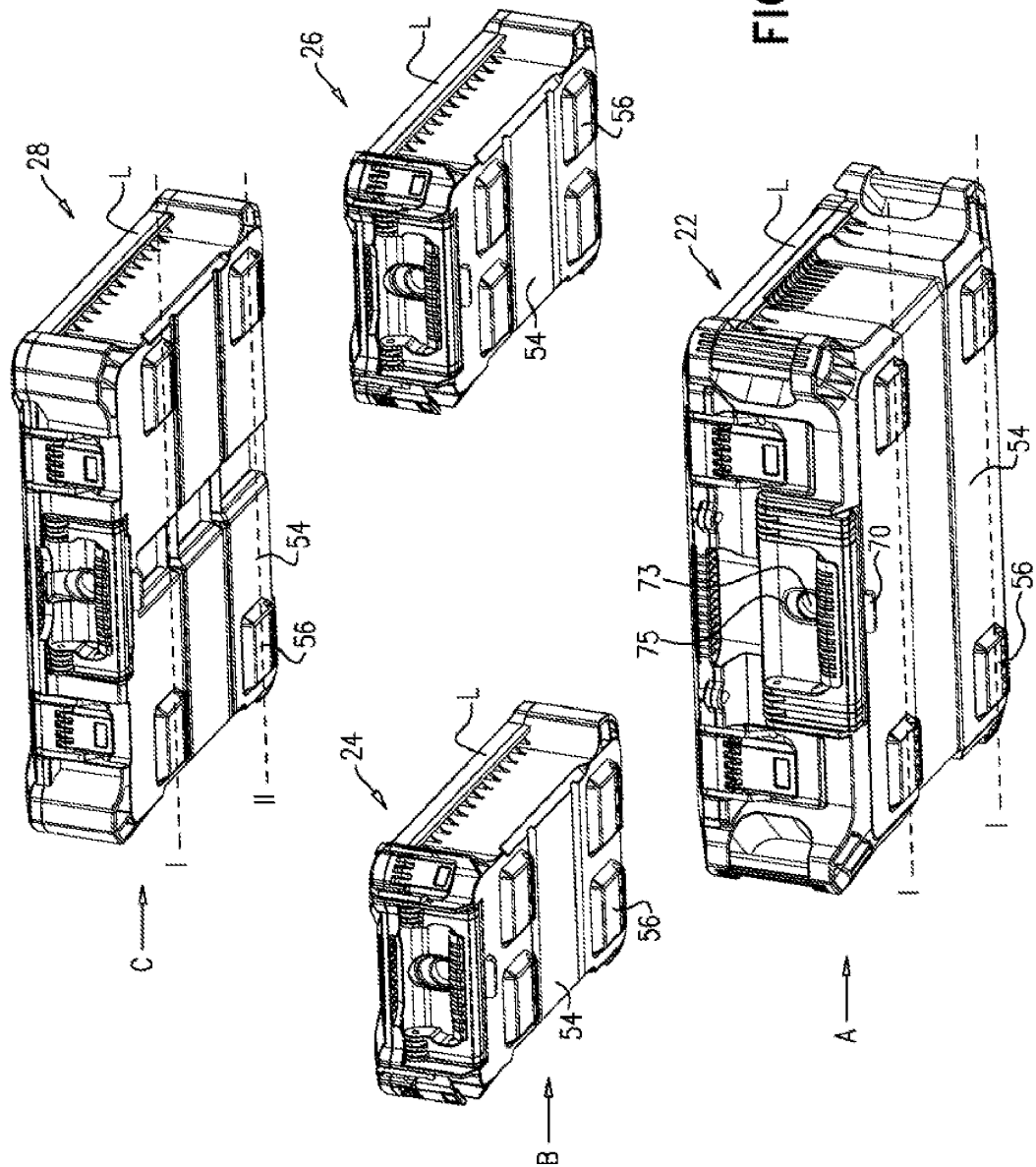


FIG. 1C

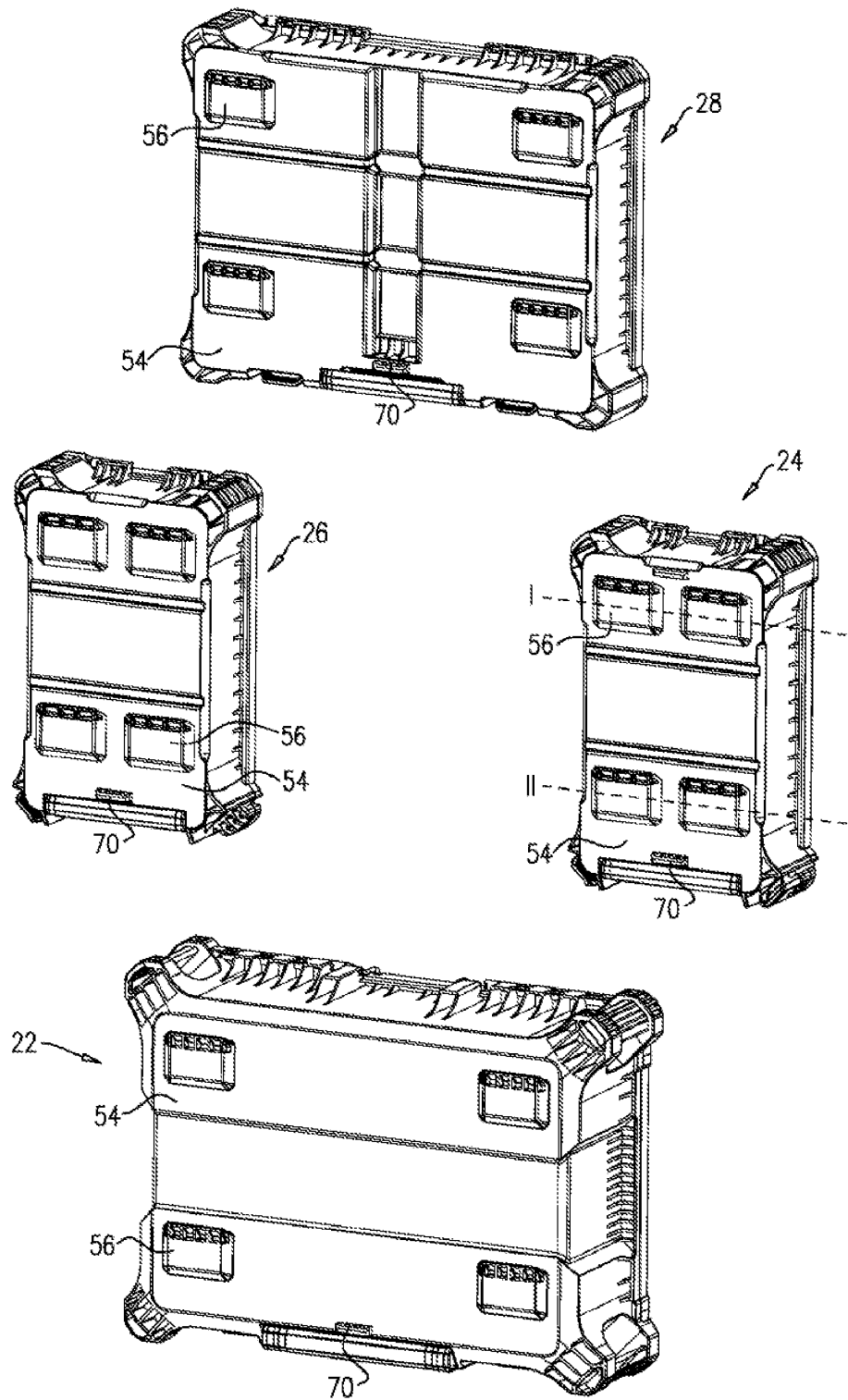


FIG. 1D

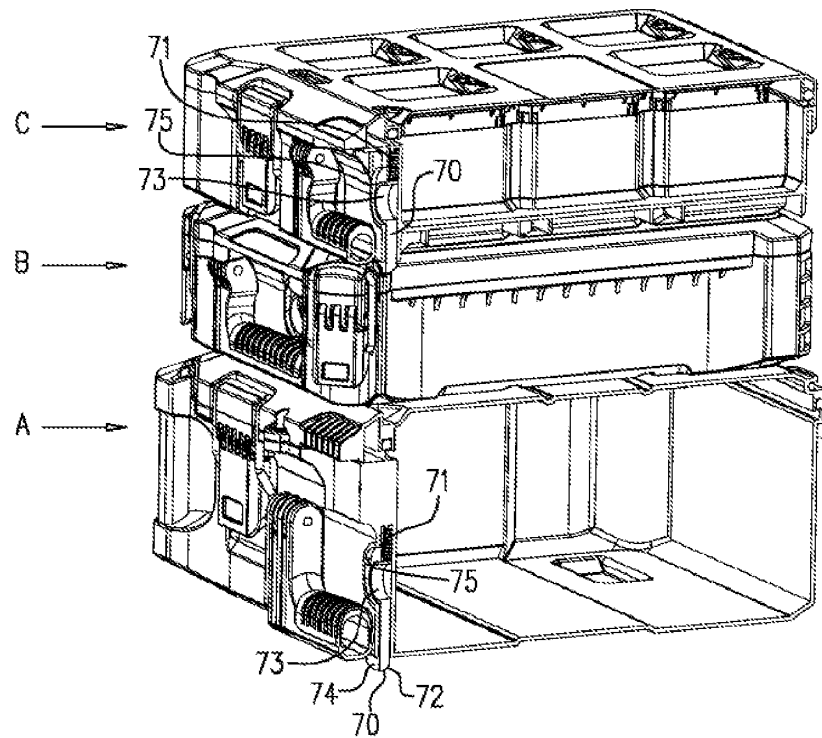


FIG. 2A

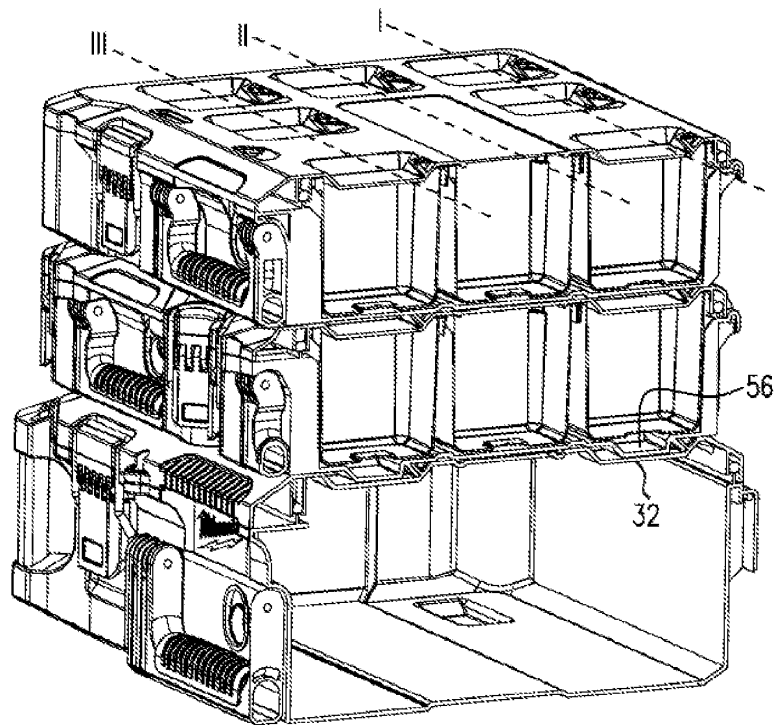


FIG. 2B

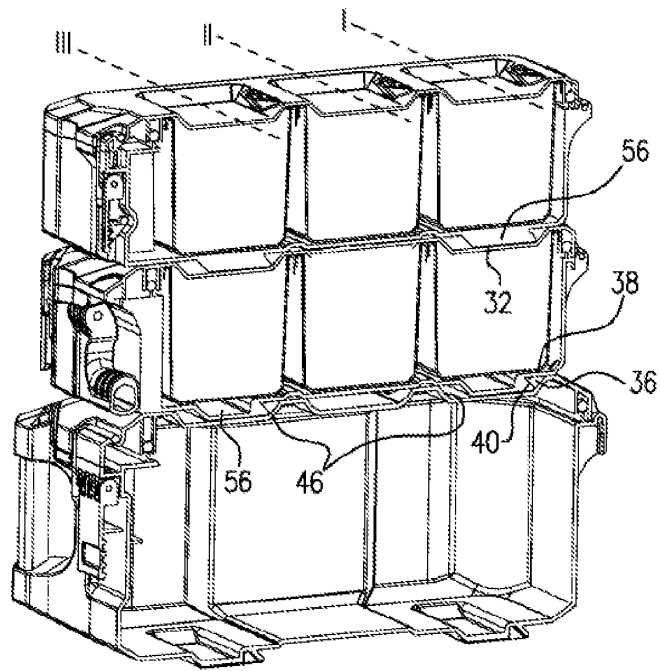
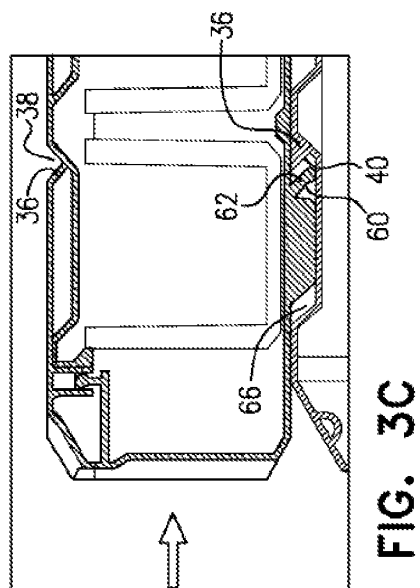
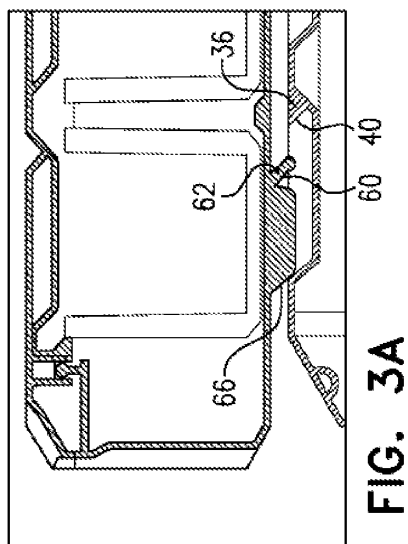
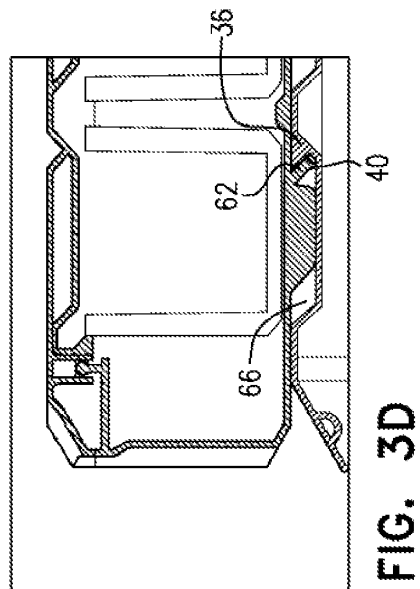
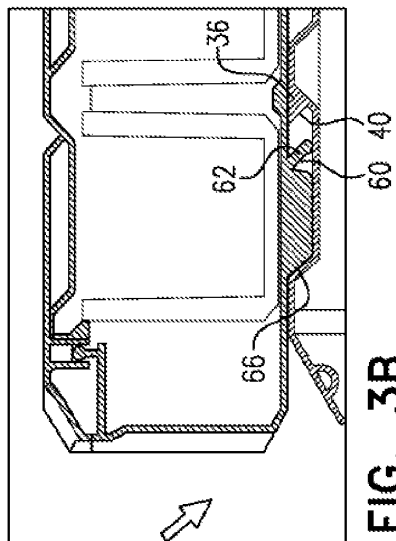


FIG. 2C



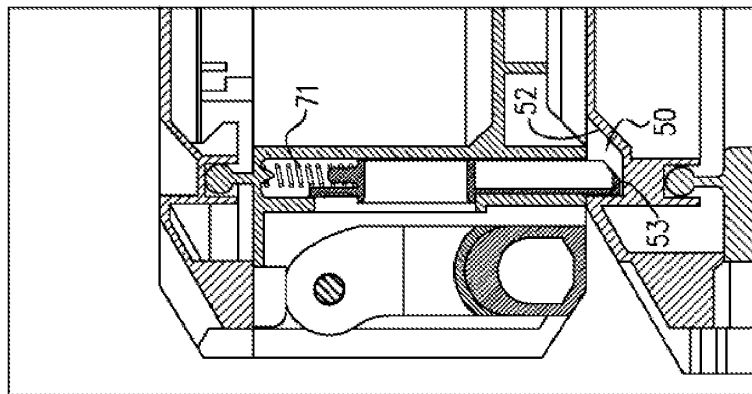


FIG. 4D

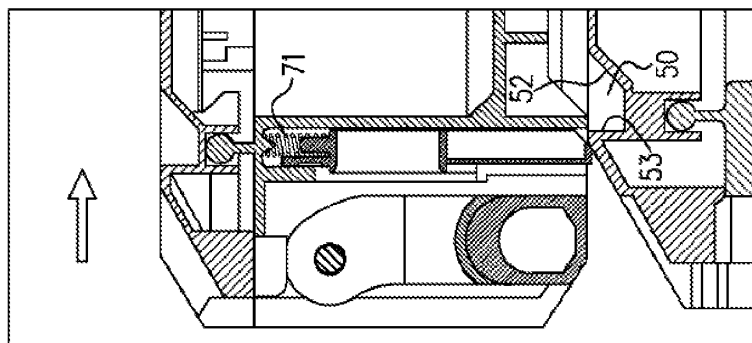


FIG. 4C

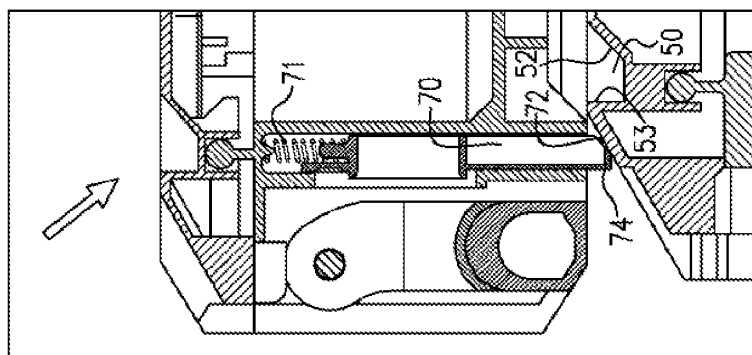


FIG. 4B

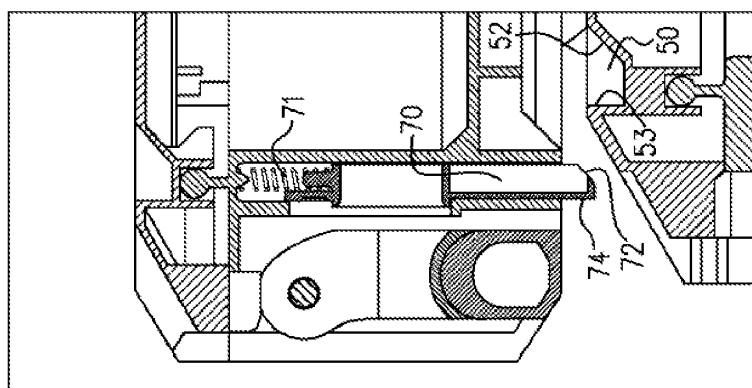


FIG. 4A

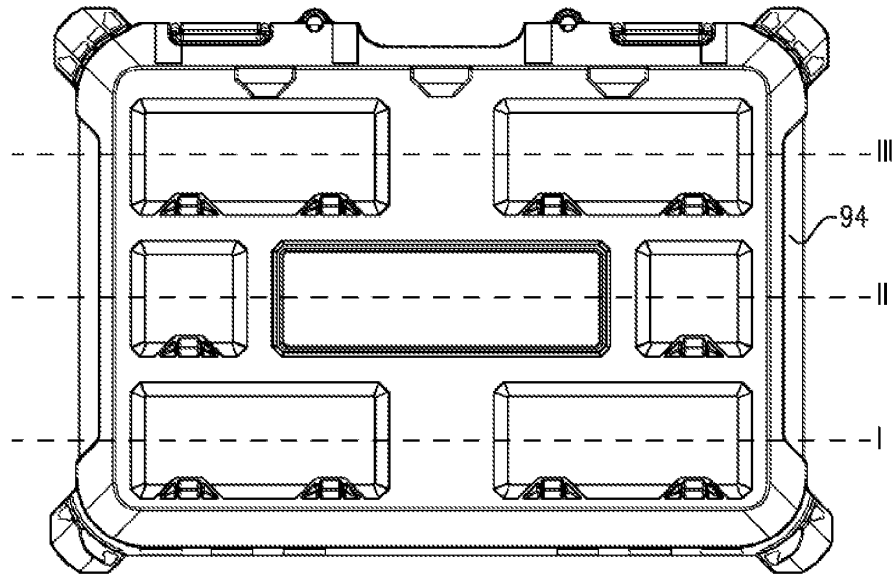


FIG. 5A

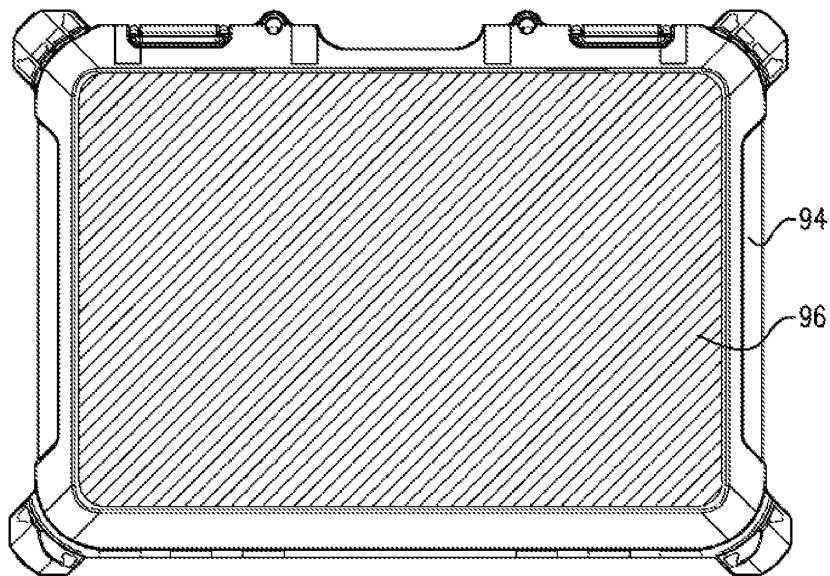


FIG. 5B

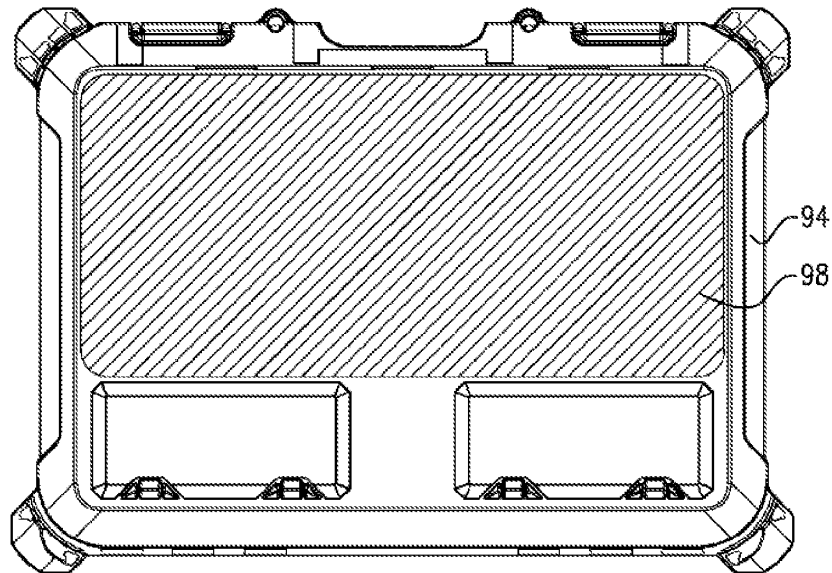


FIG. 5C

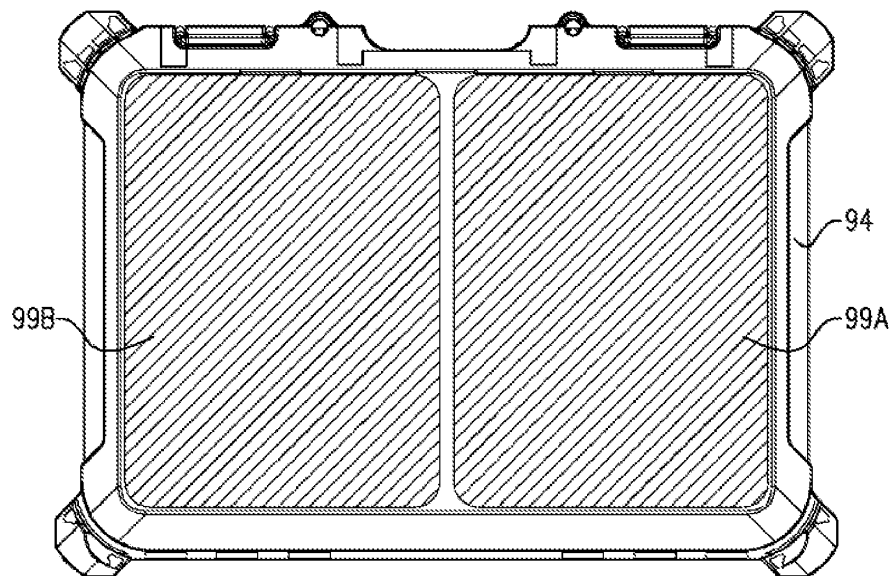


FIG. 5D

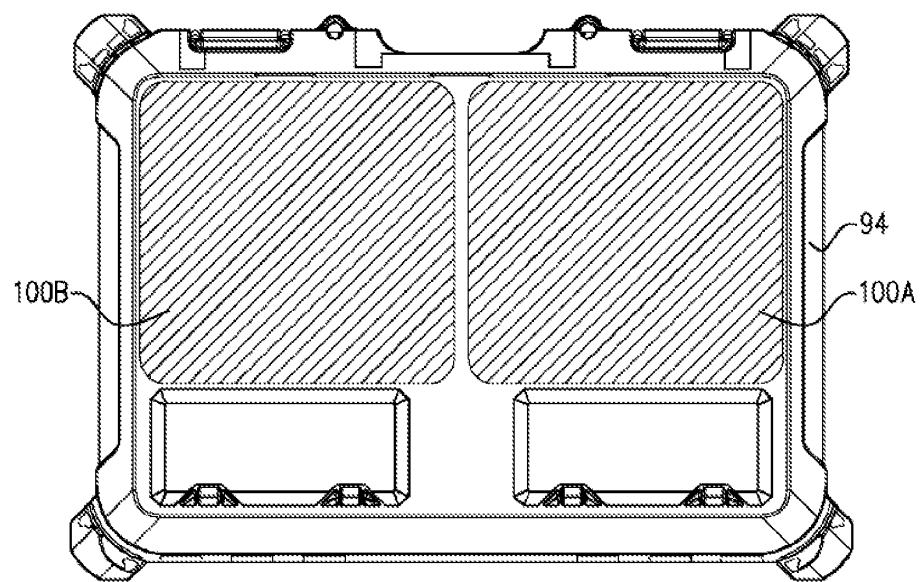


FIG. 5E

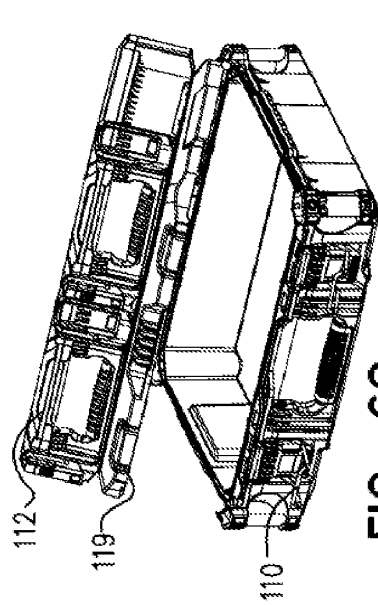


FIG. 6G

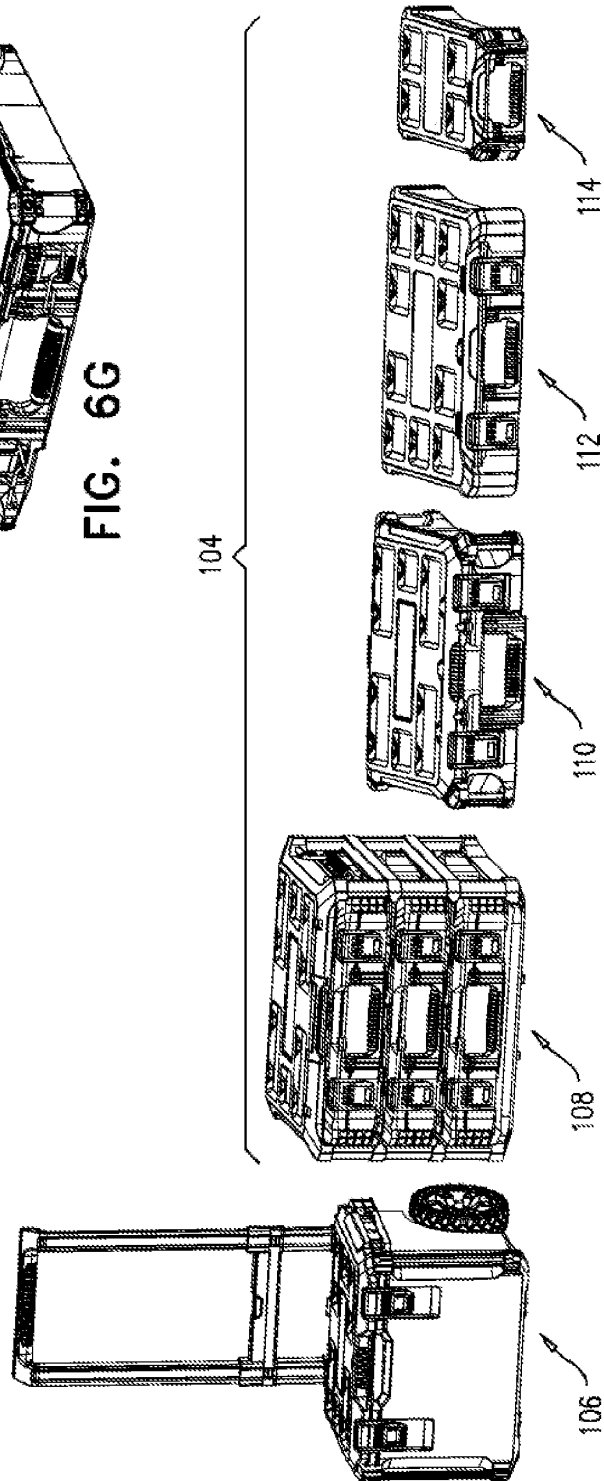


FIG. 6A

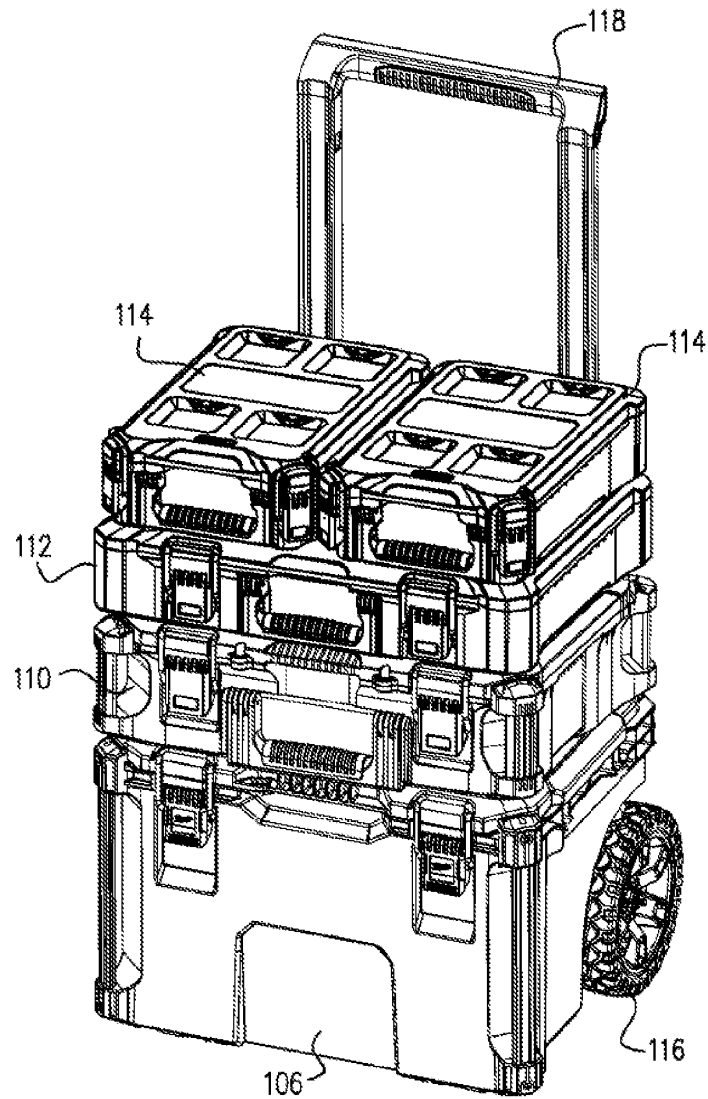


FIG. 6B

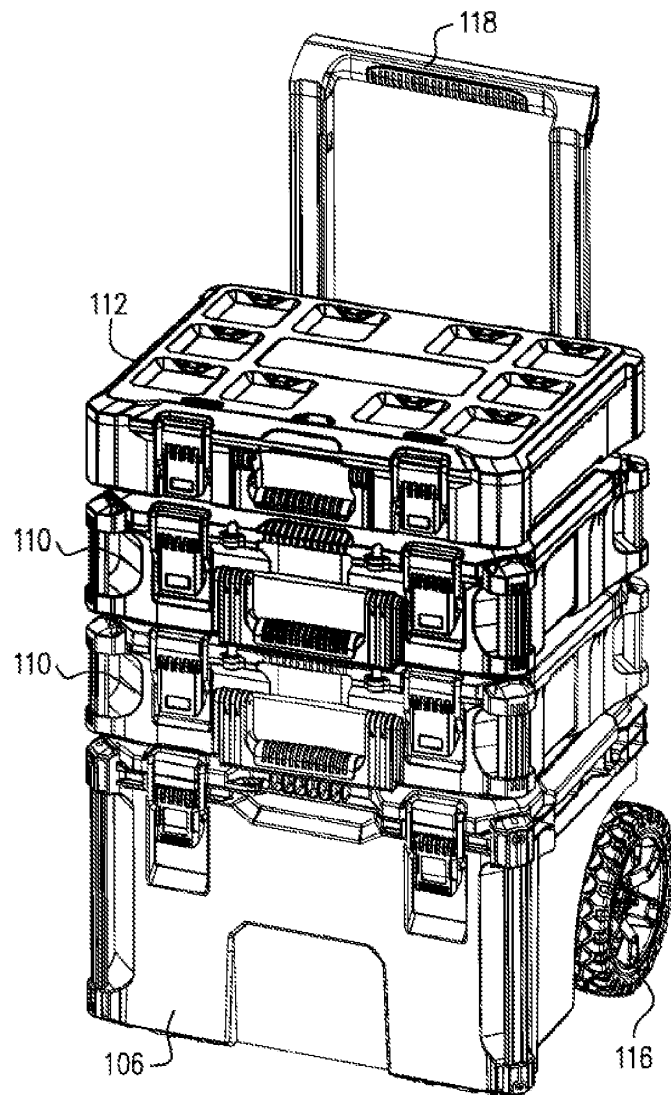


FIG. 6C

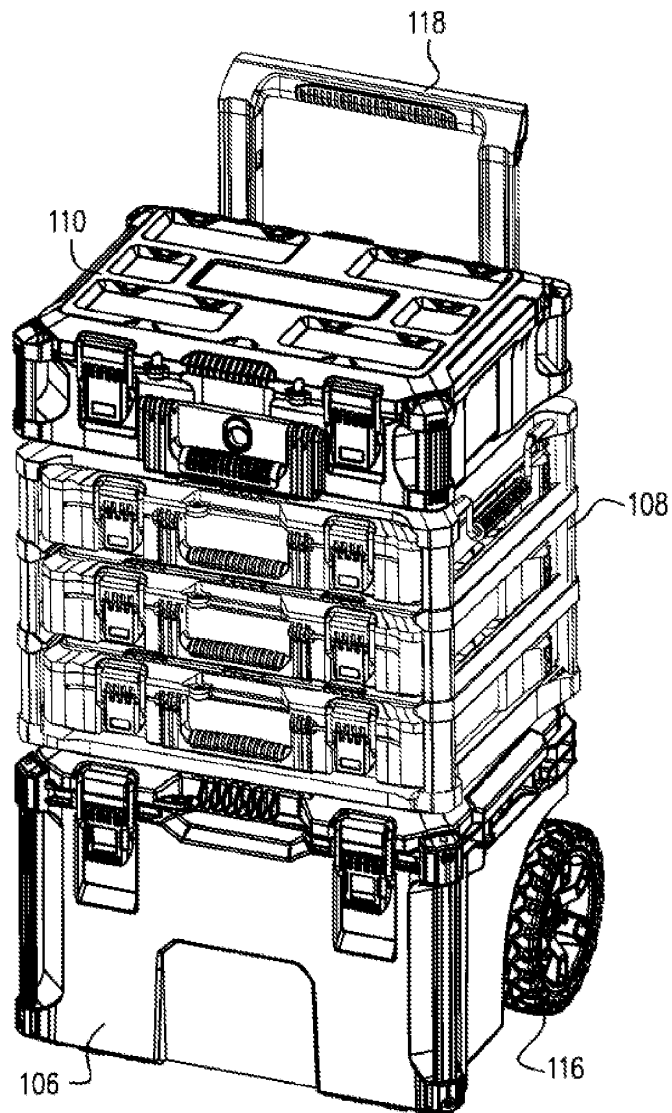


FIG. 6D

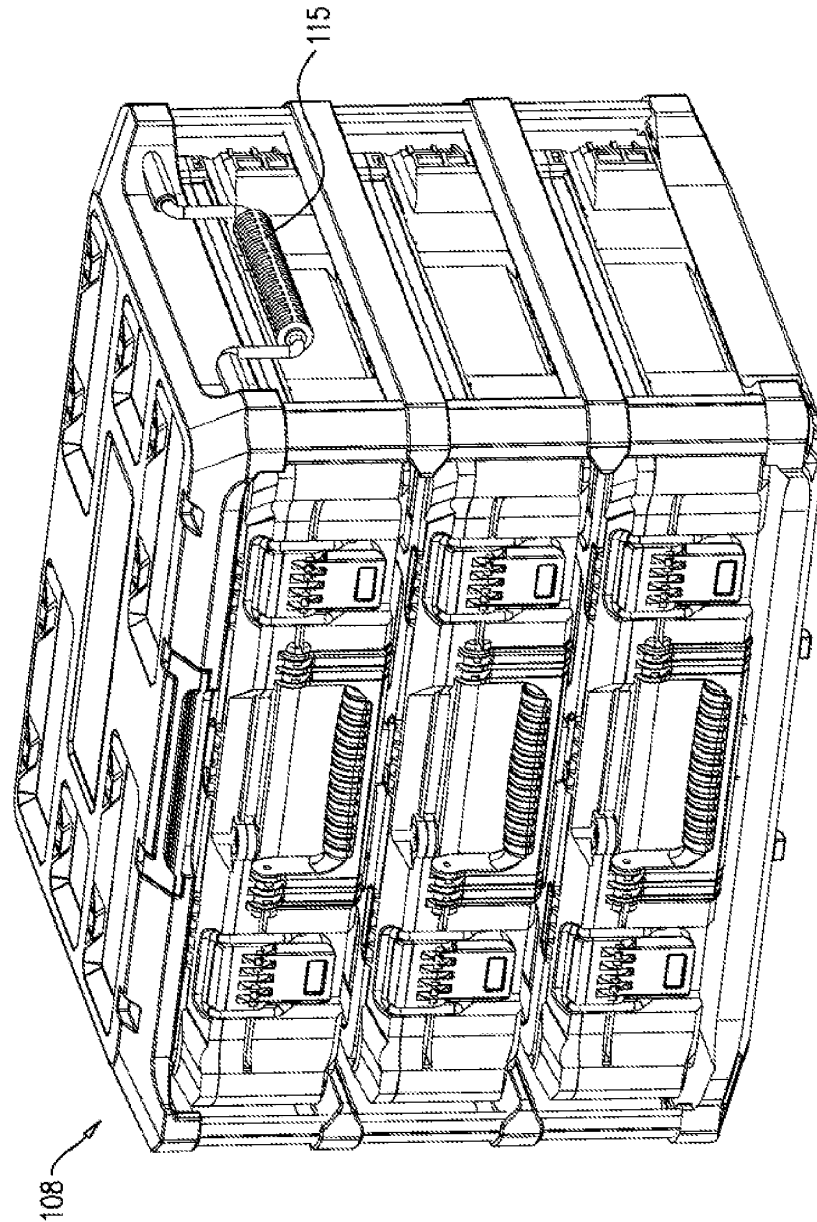


FIG. 6E

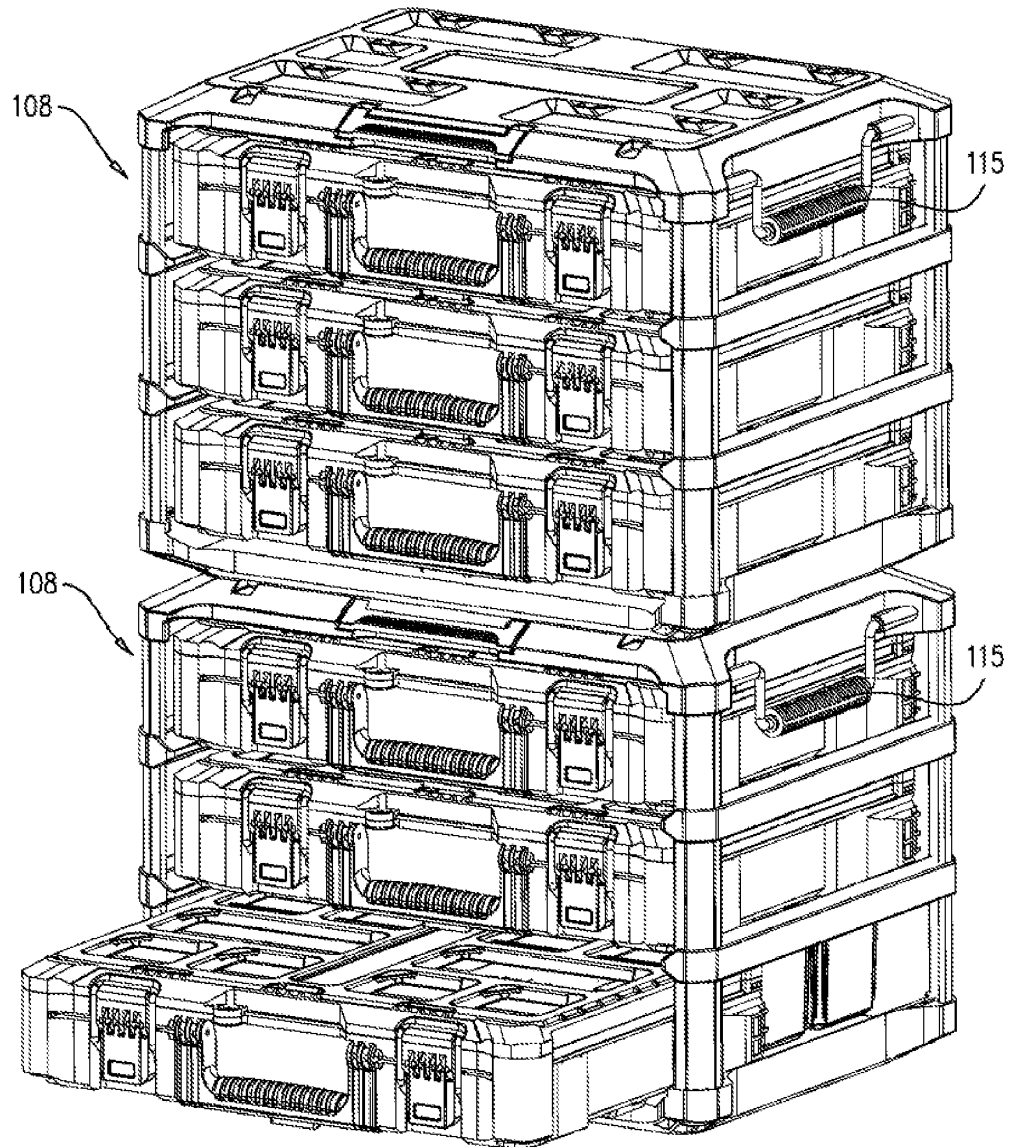


FIG. 6F

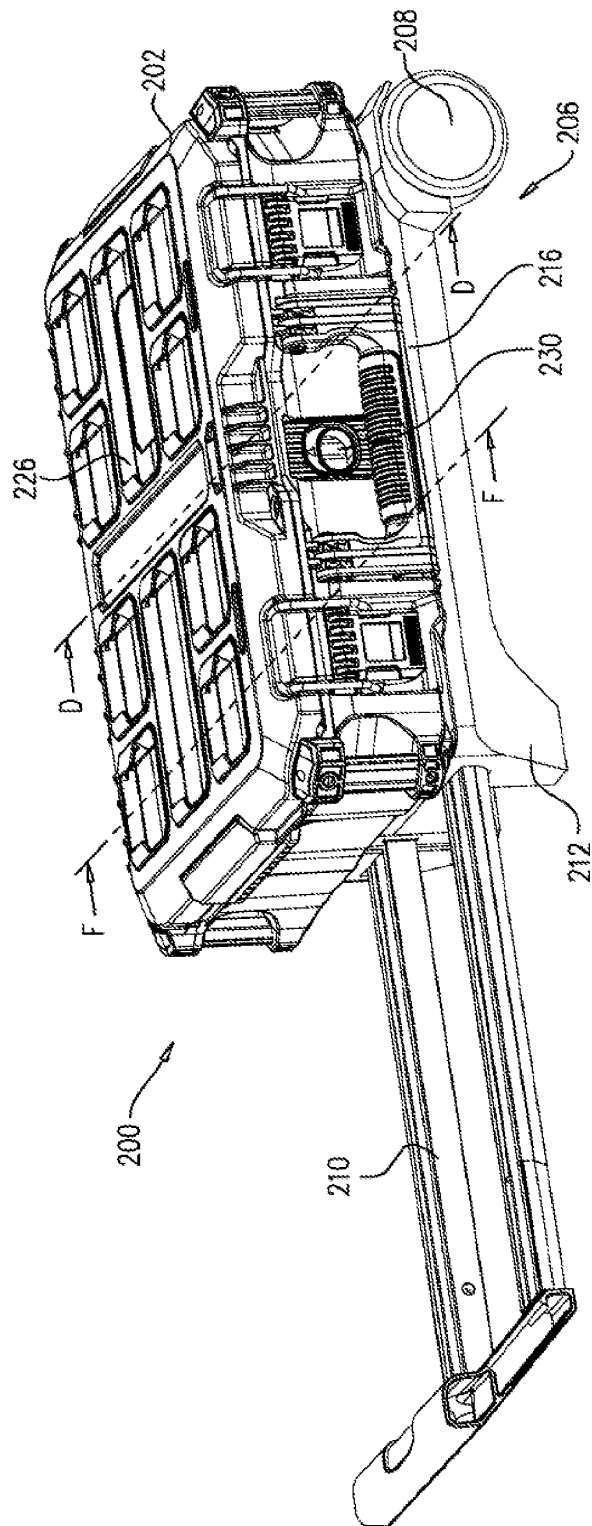
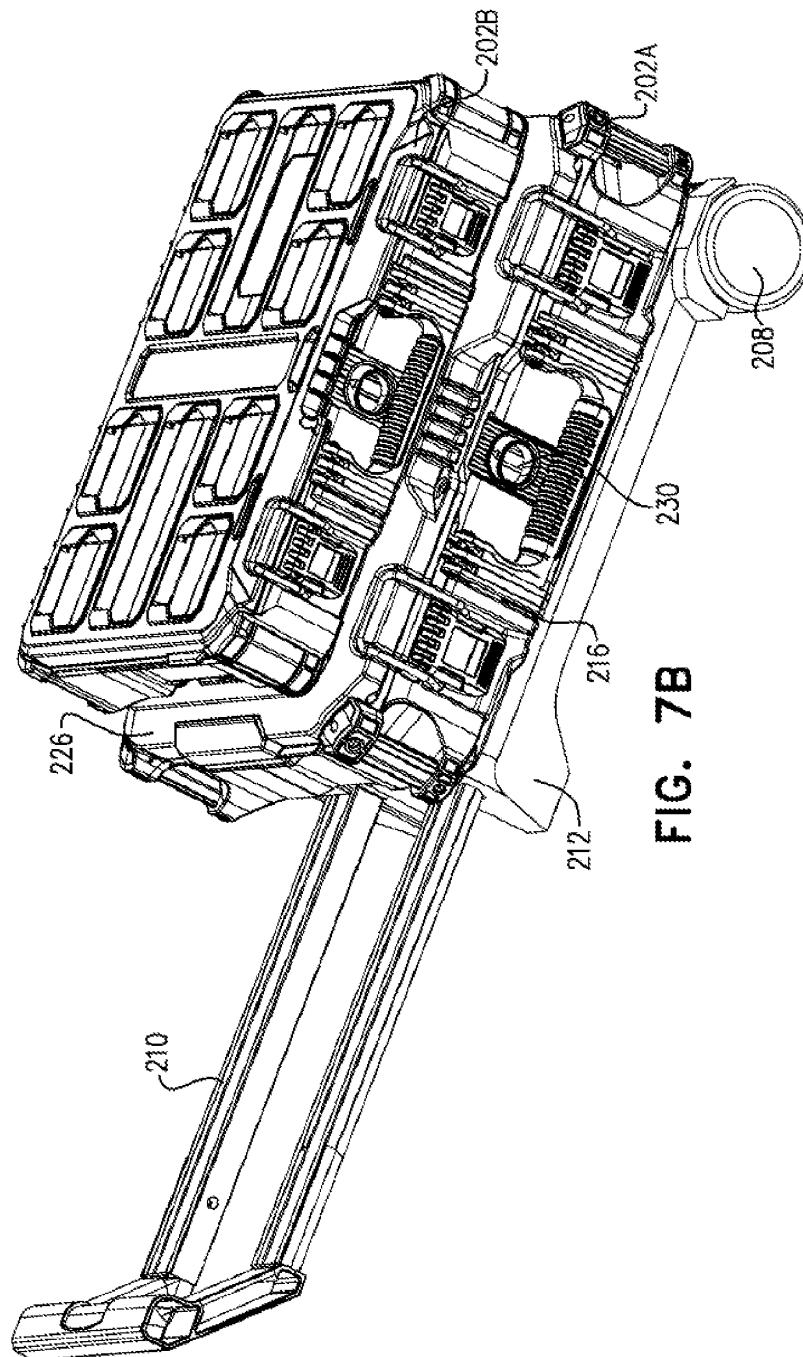
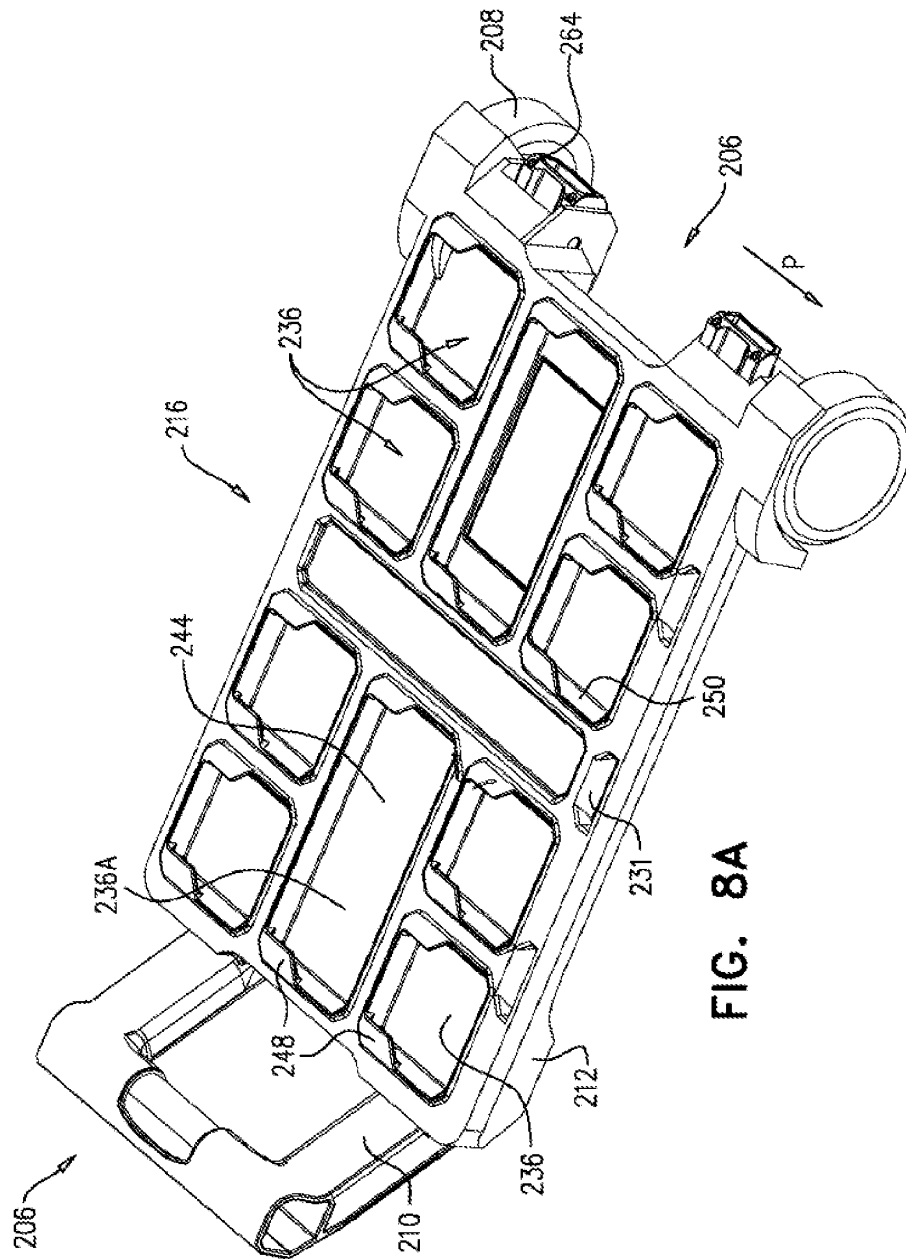
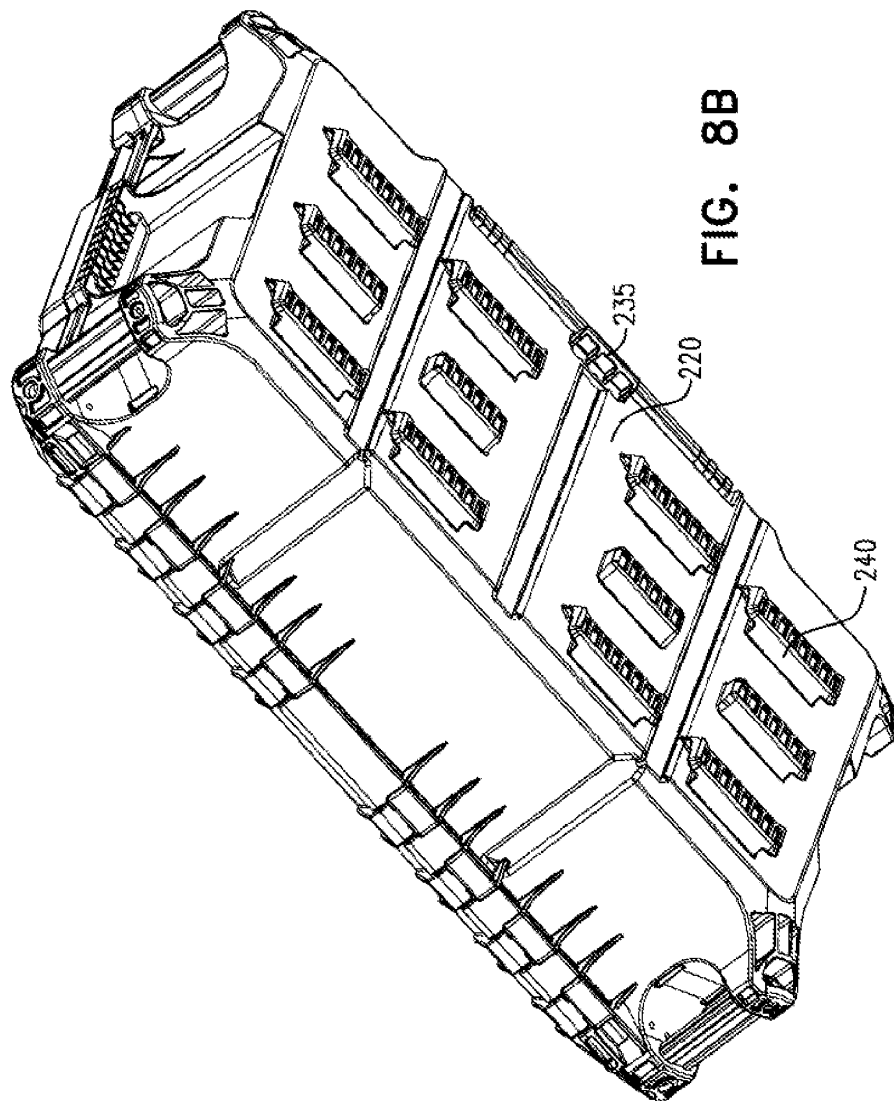
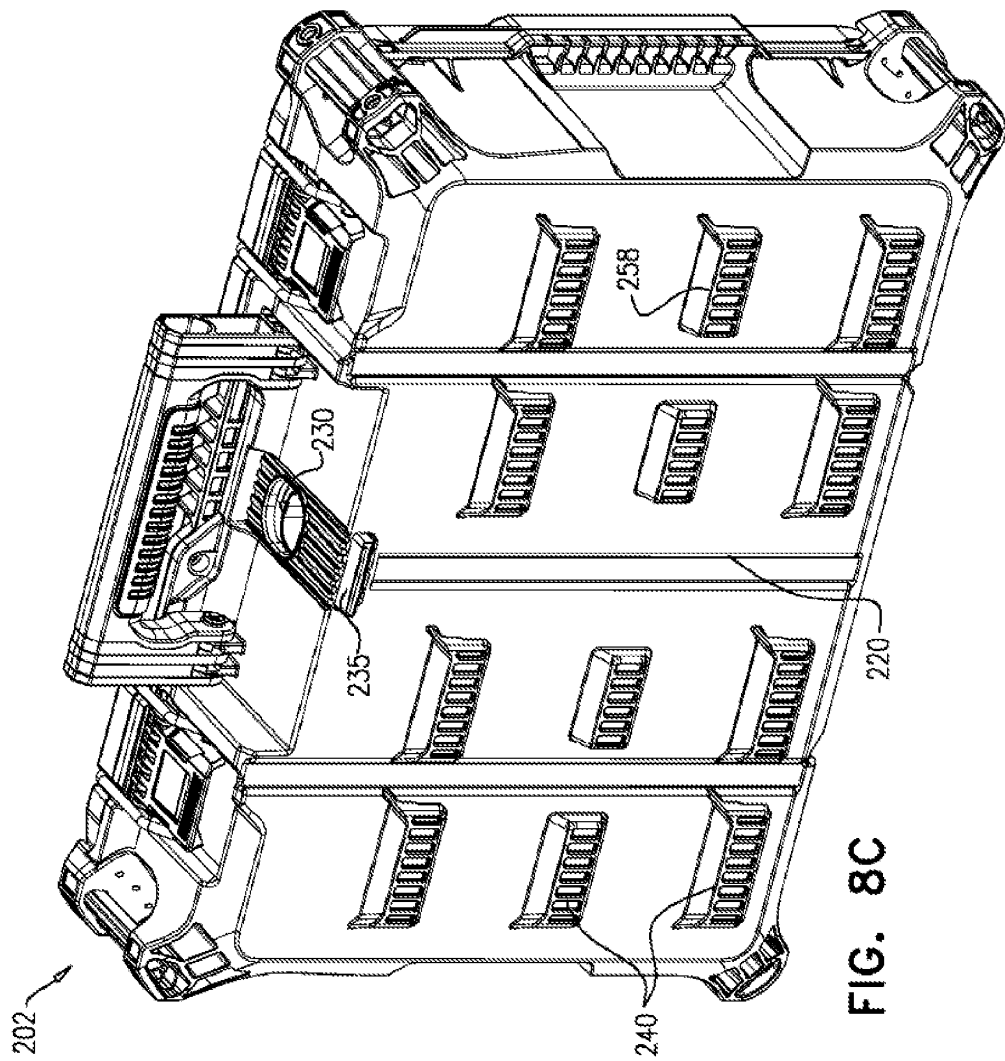


FIG. 7A









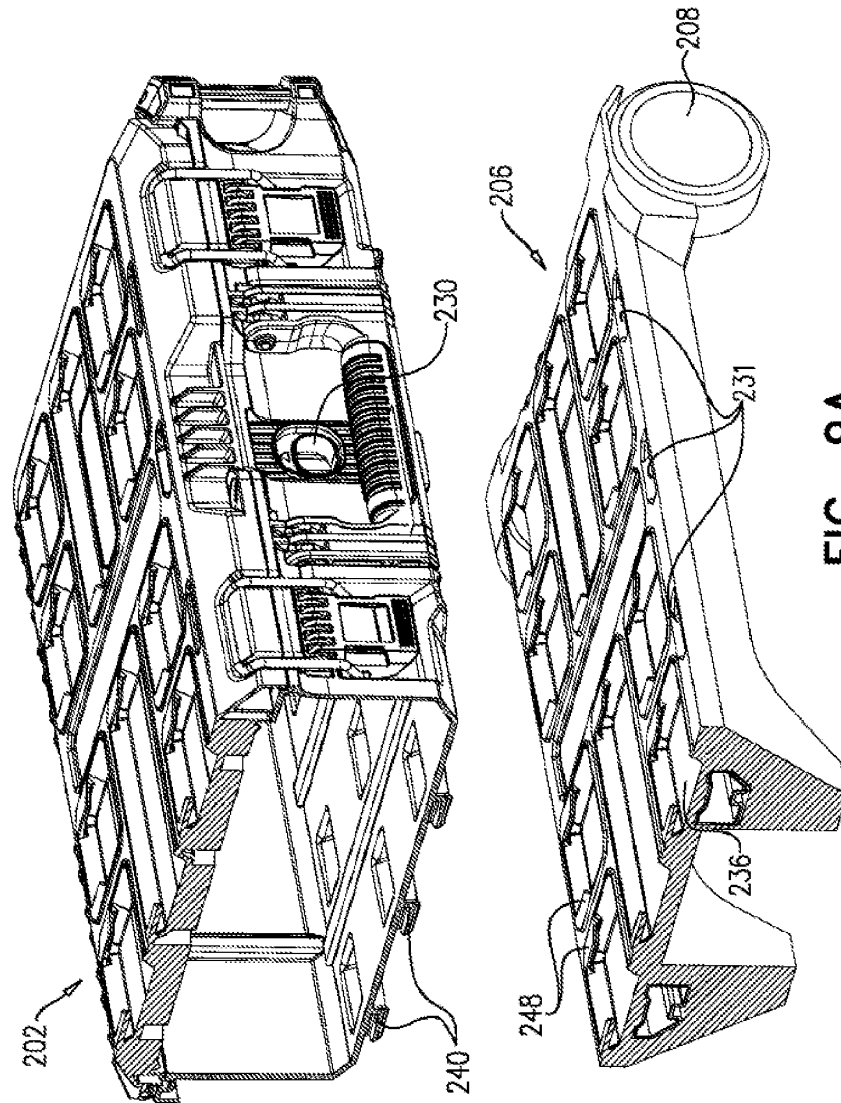


FIG. 9A

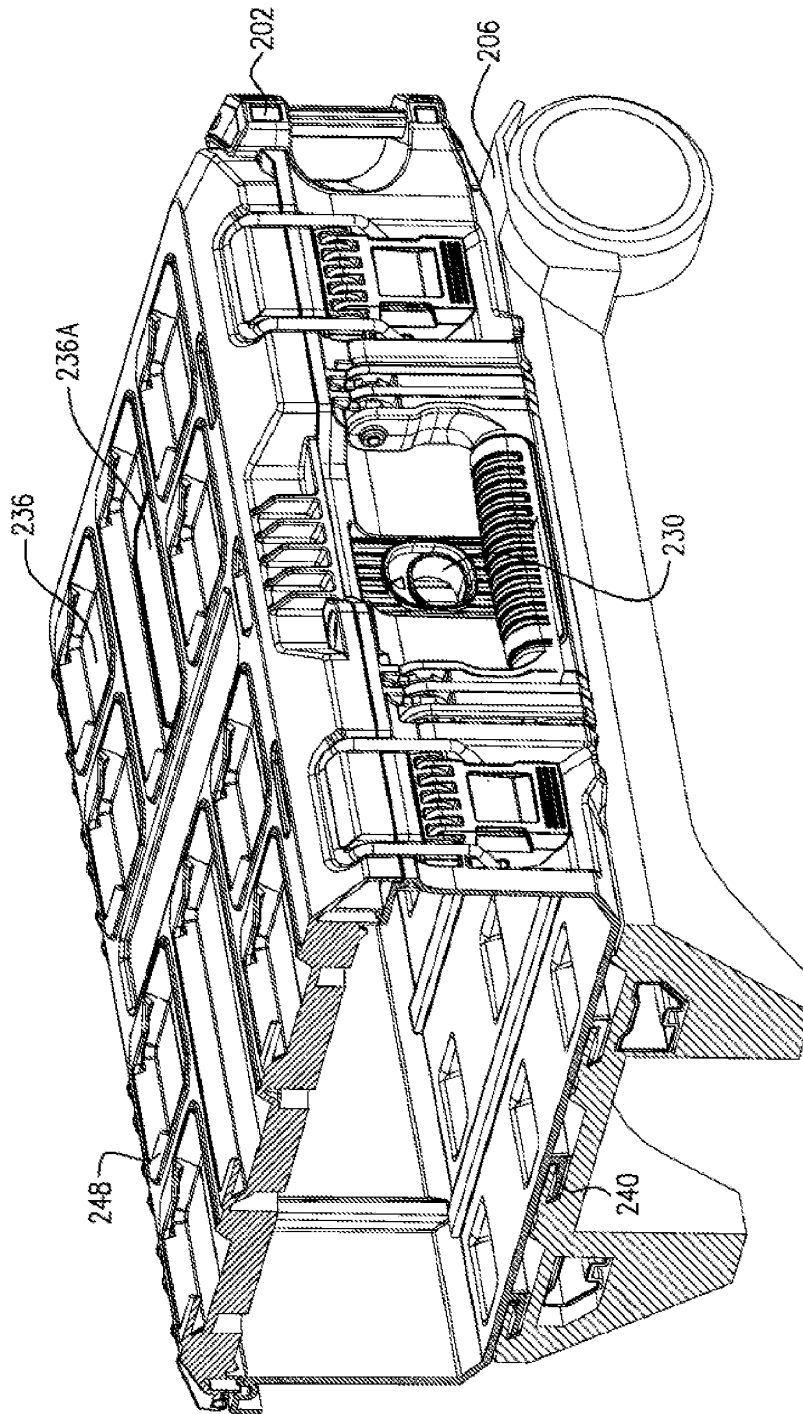
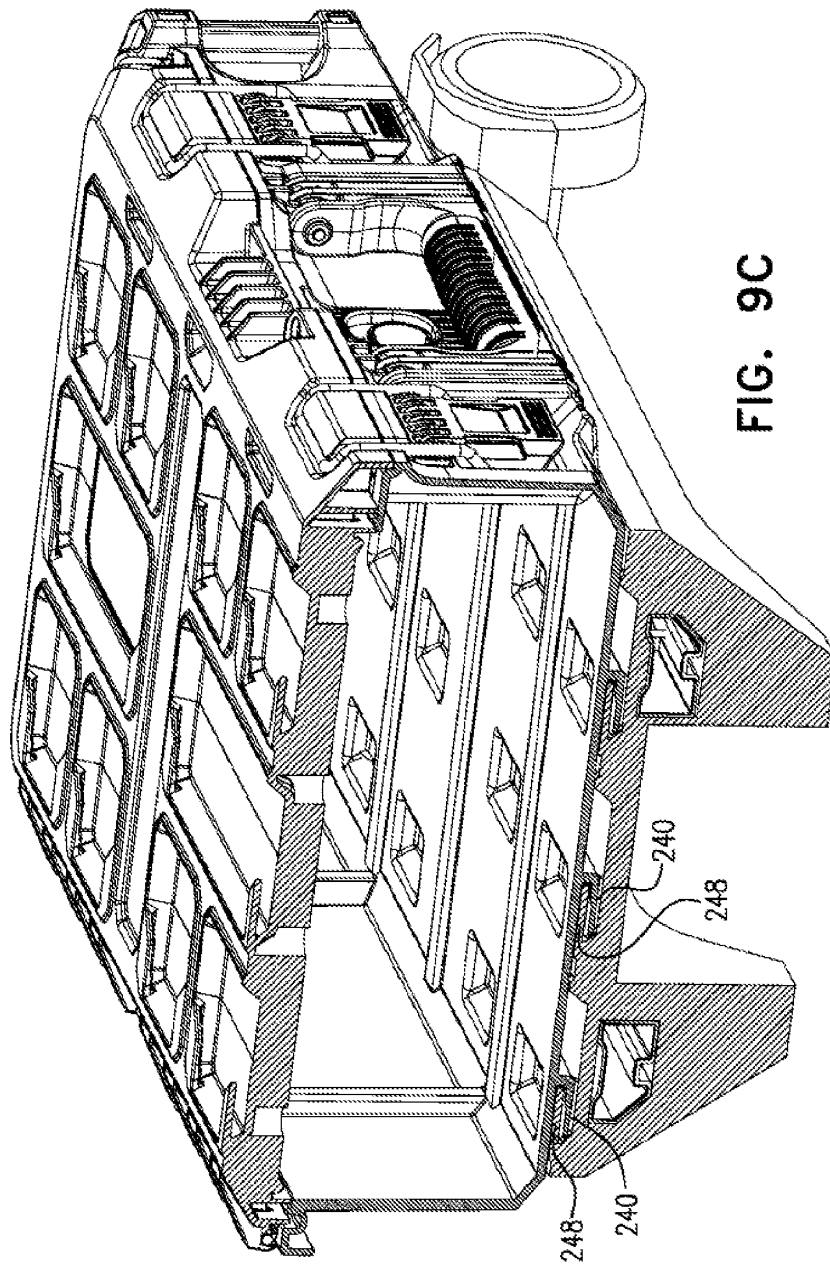


FIG. 9B



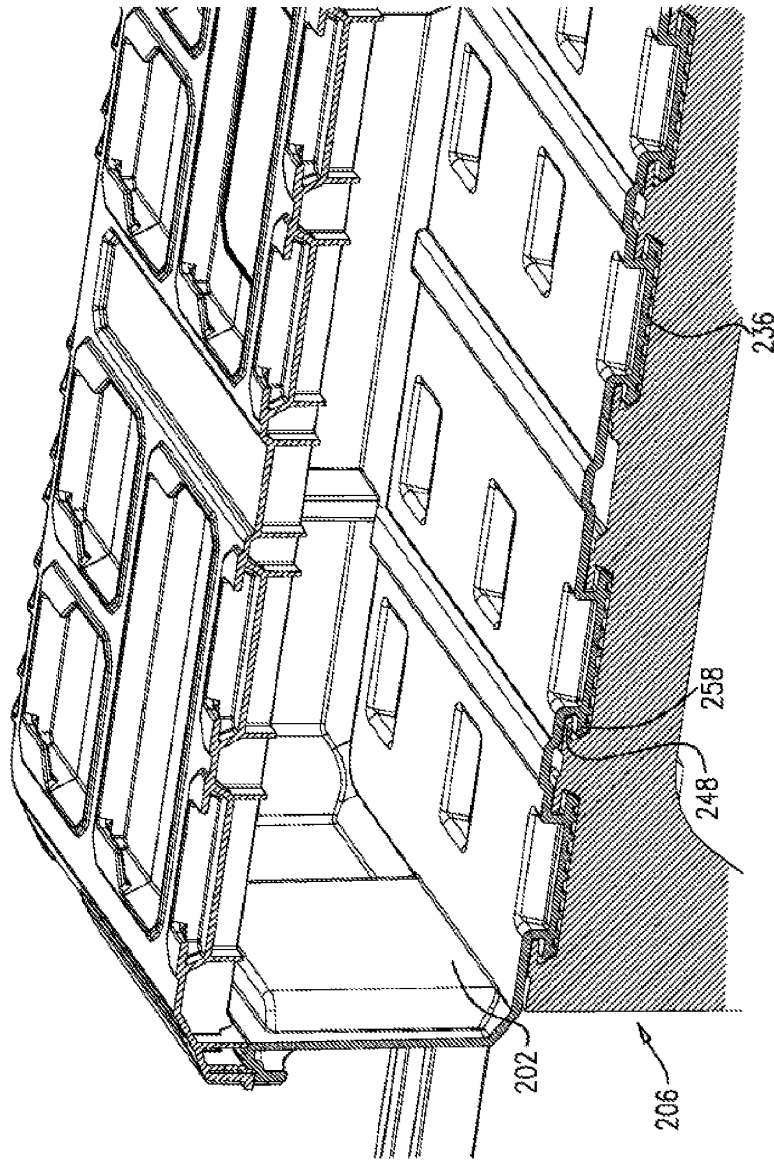


FIG. 9D

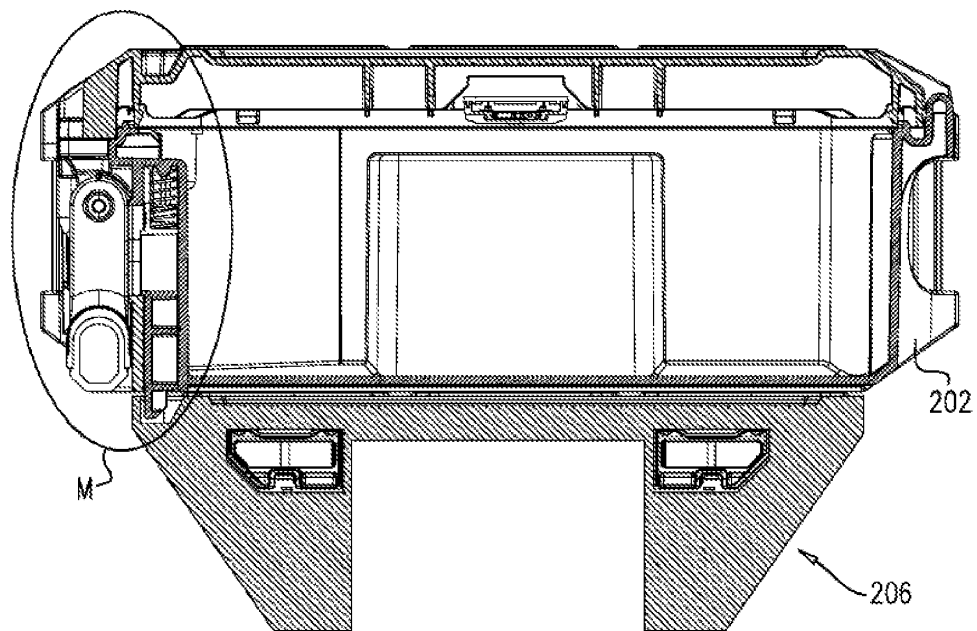


FIG. 10A

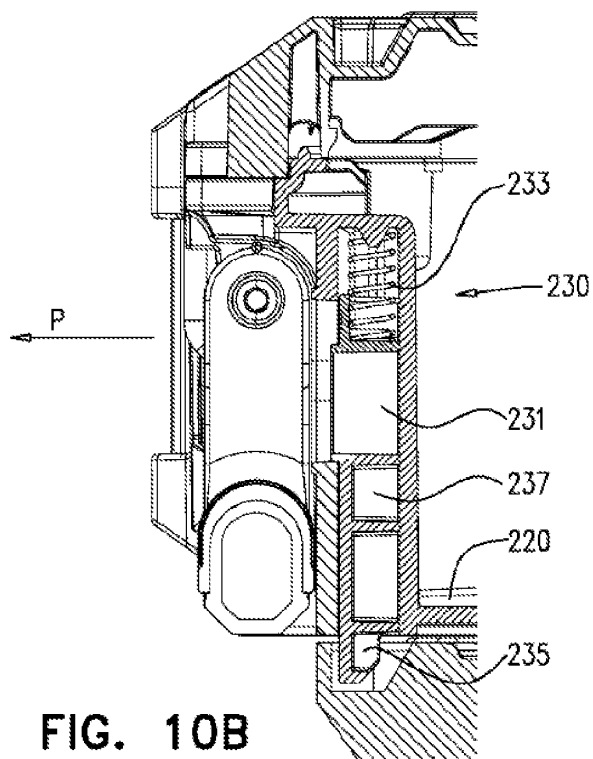


FIG. 10B

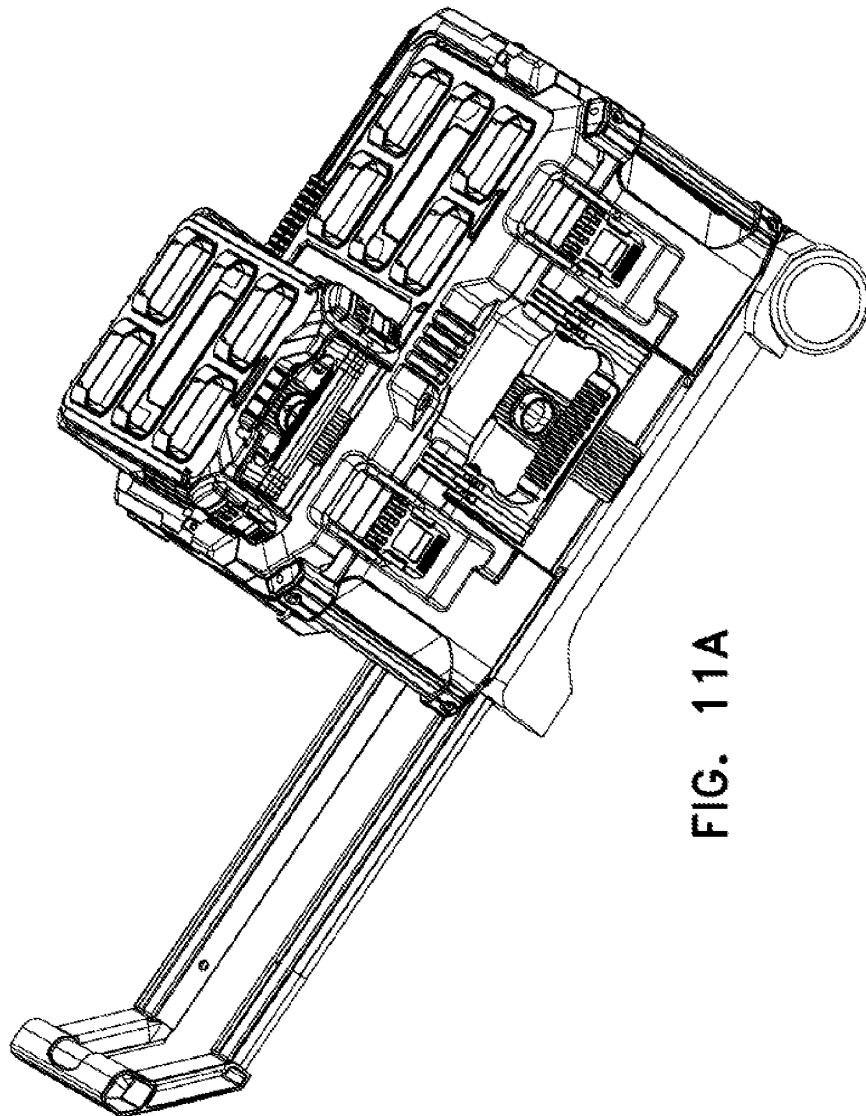


FIG. 11A

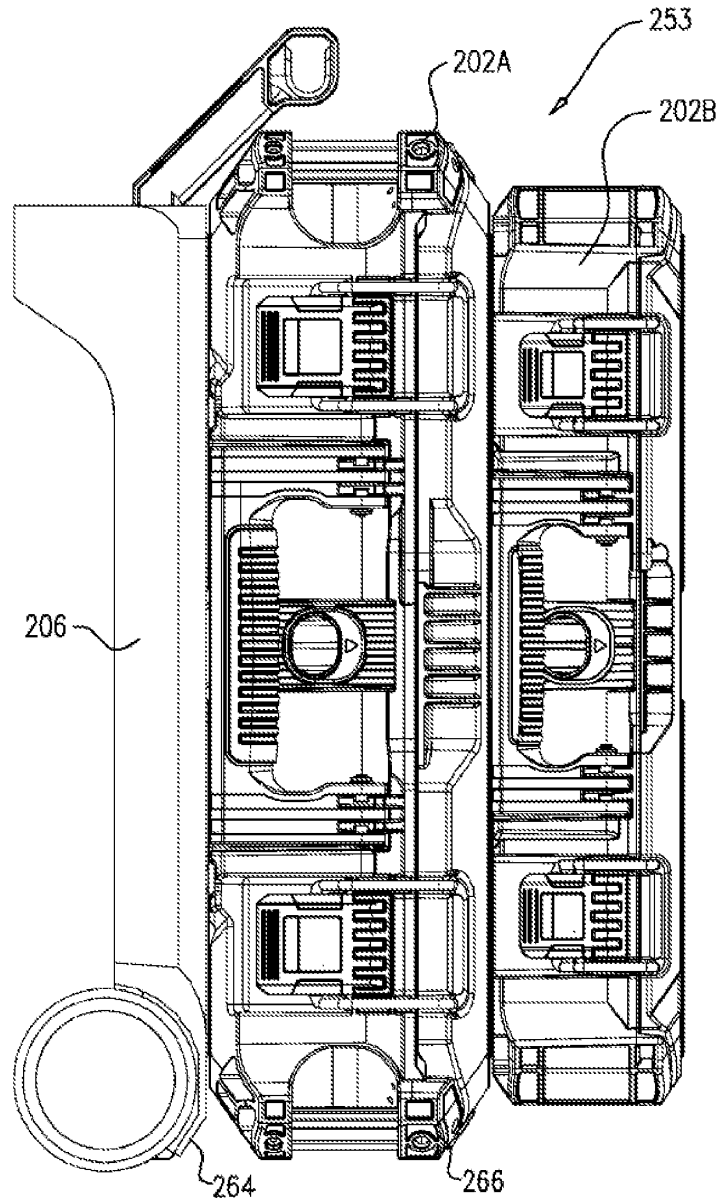
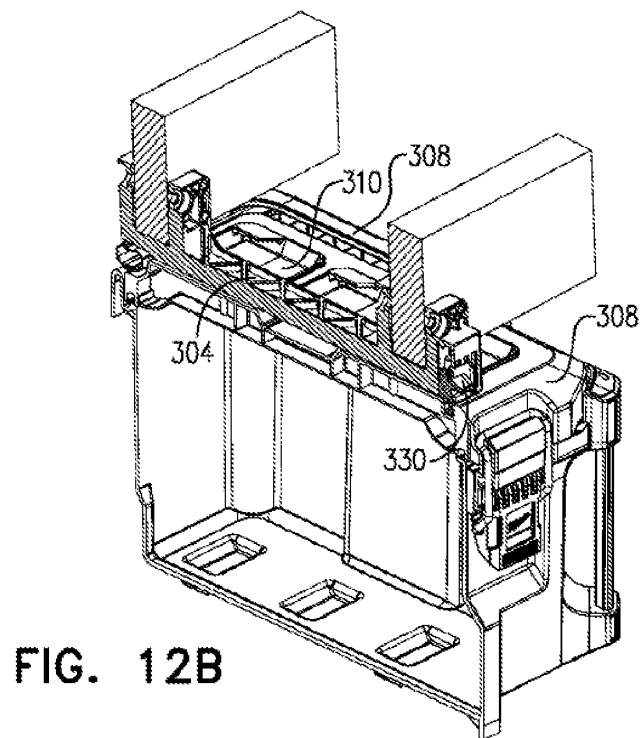
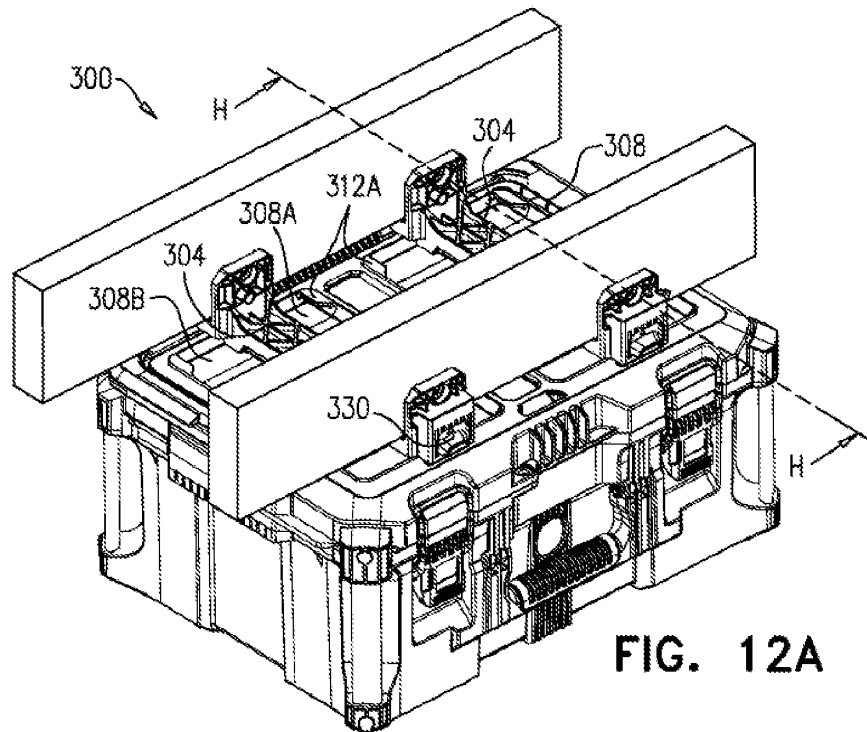


FIG. 11B



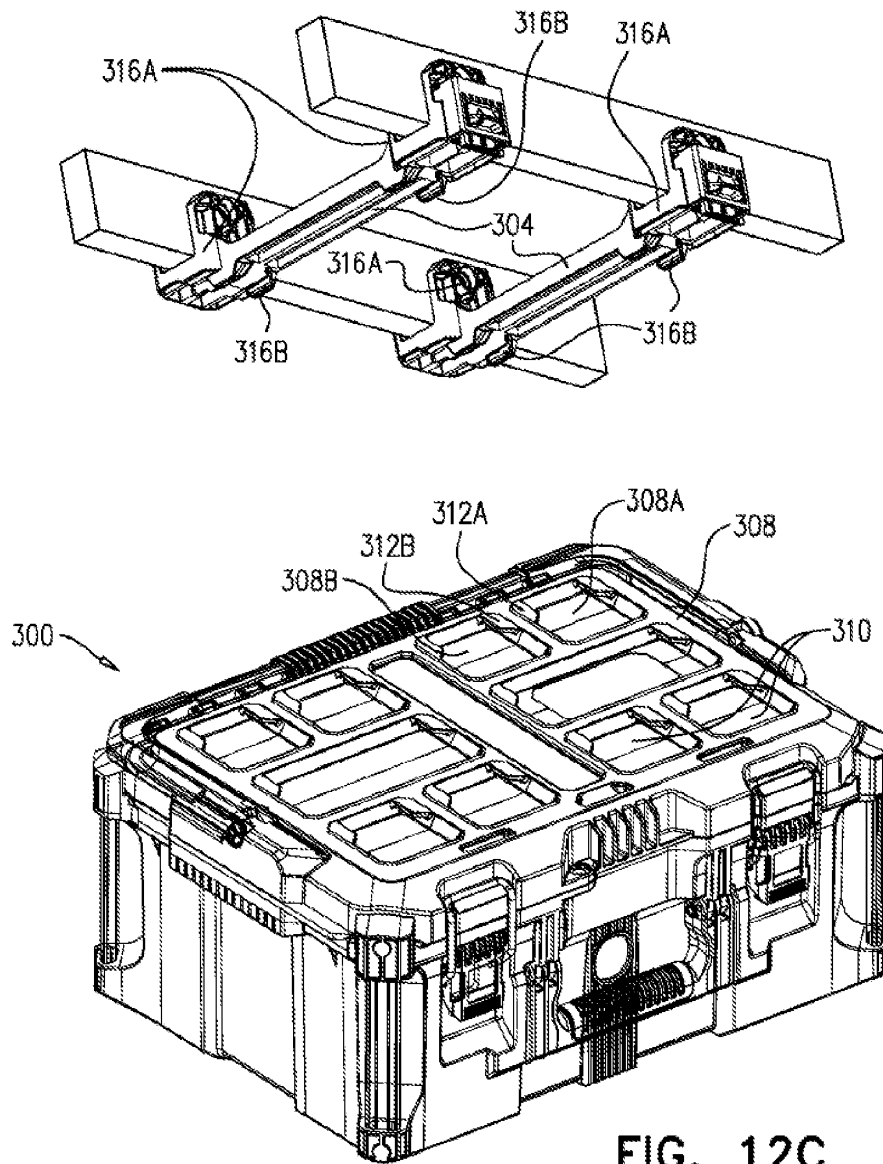


FIG. 12C

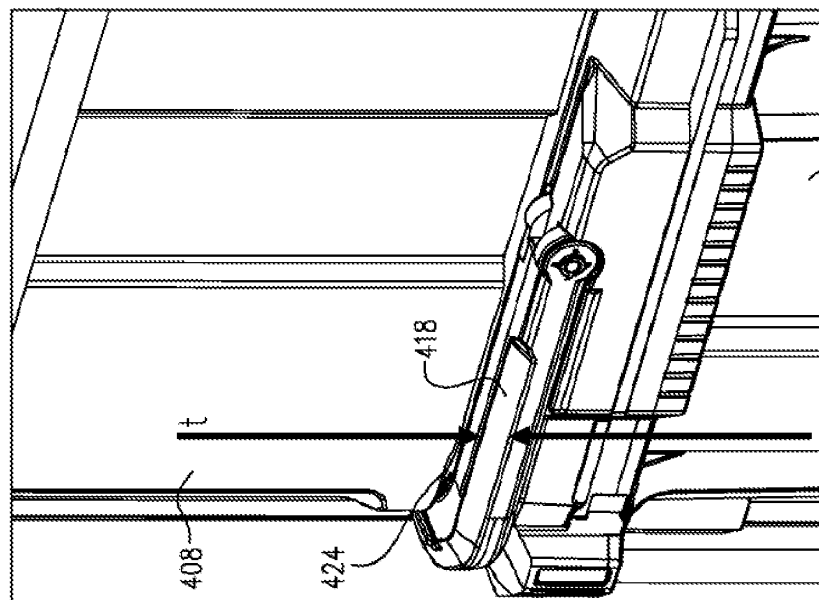


FIG. 13B

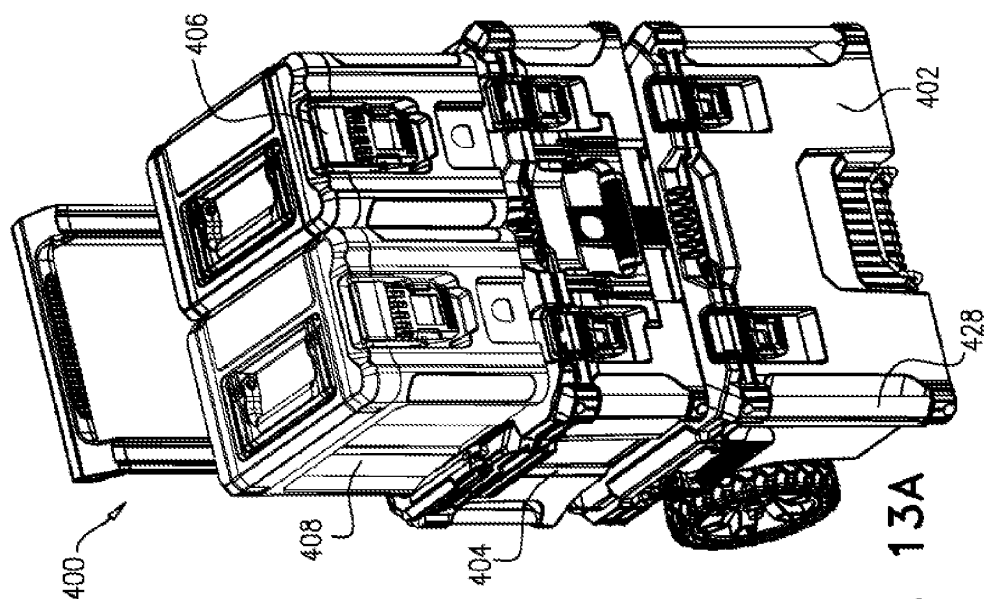


FIG. 13A

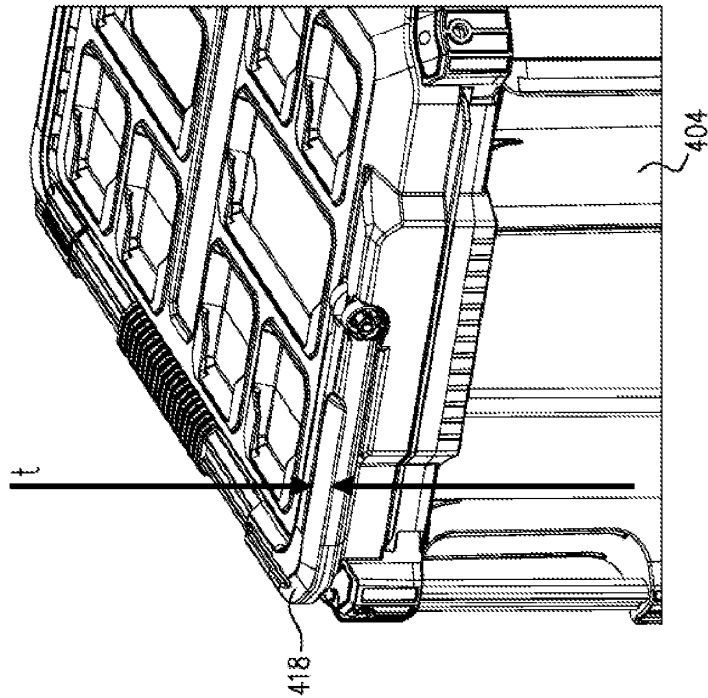


FIG. 13D

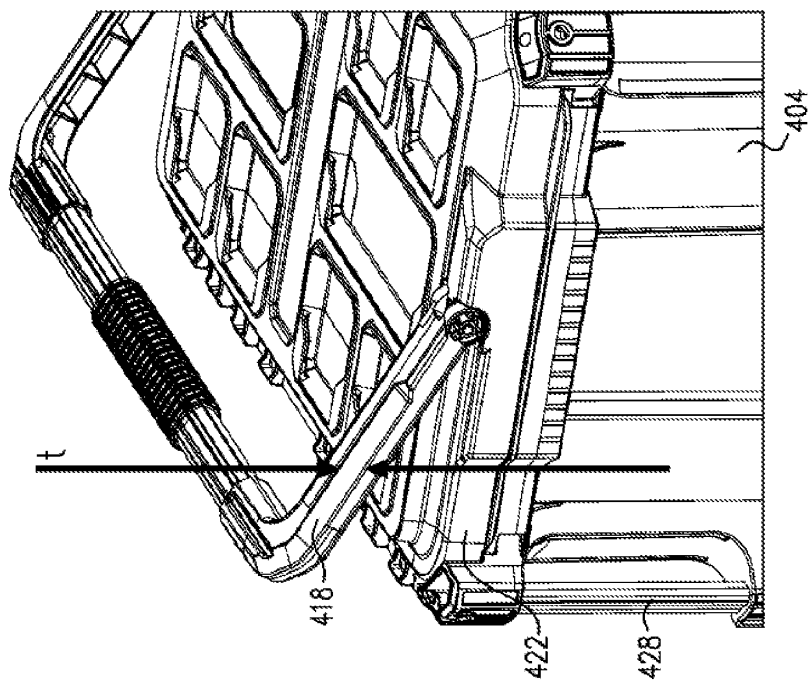


FIG. 13C

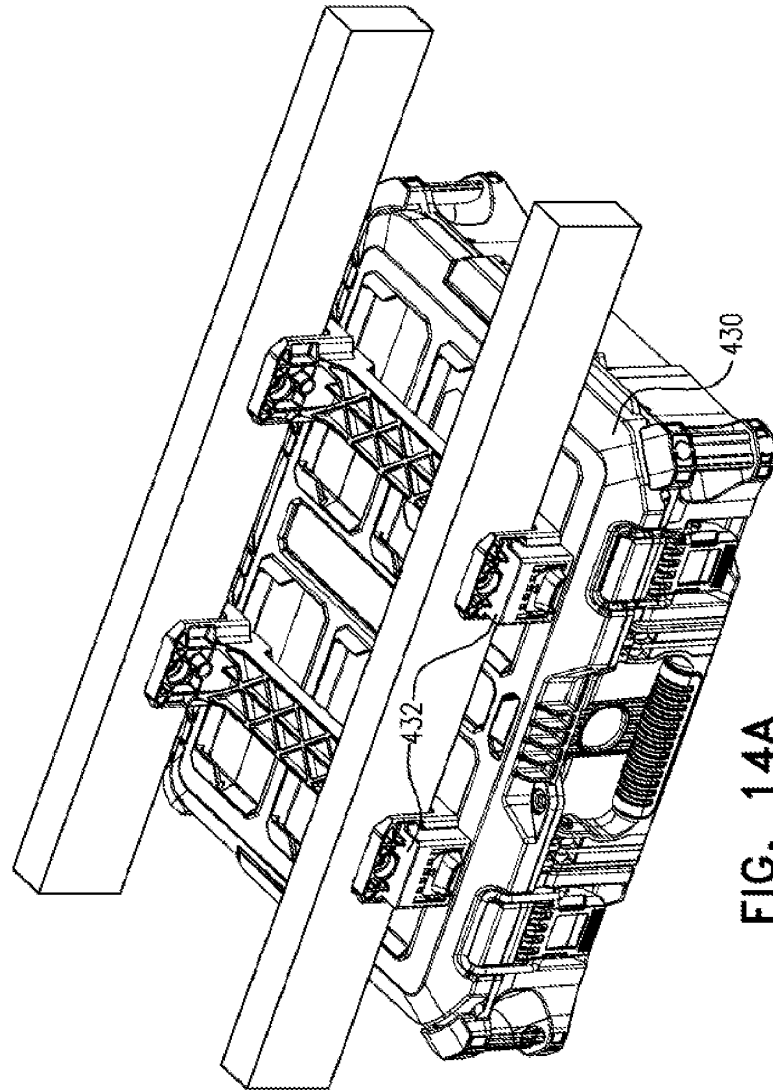


FIG. 14A

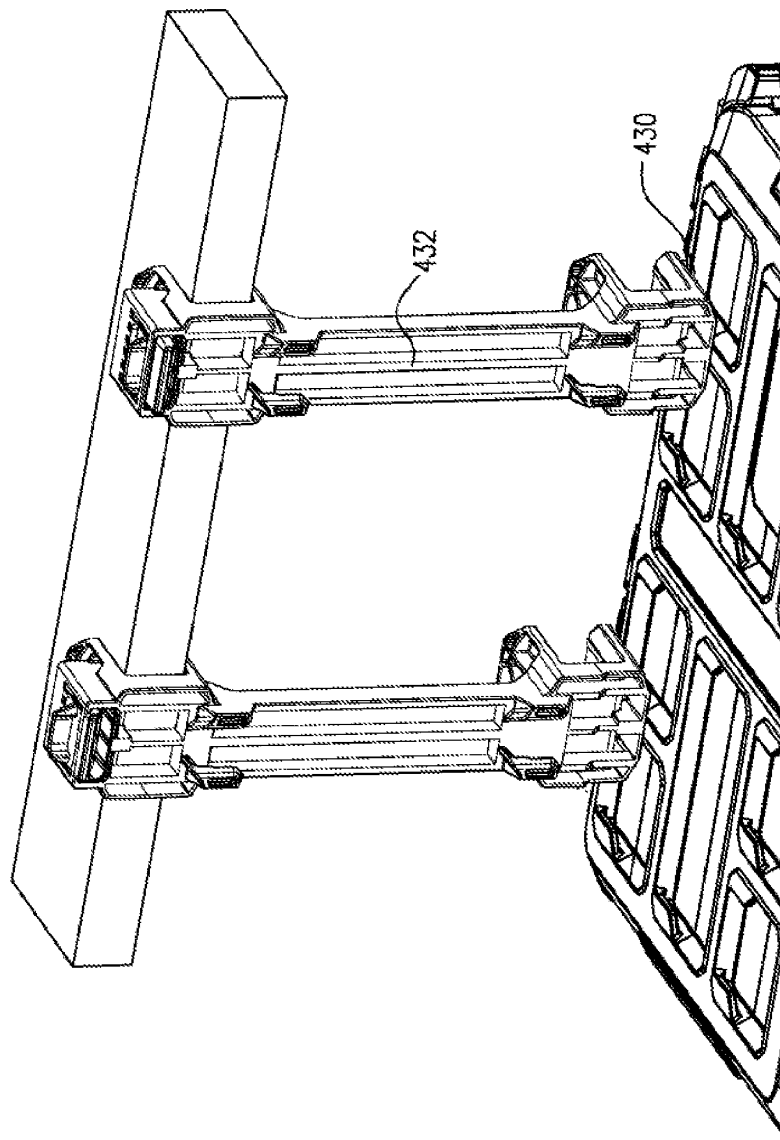


FIG. 14B

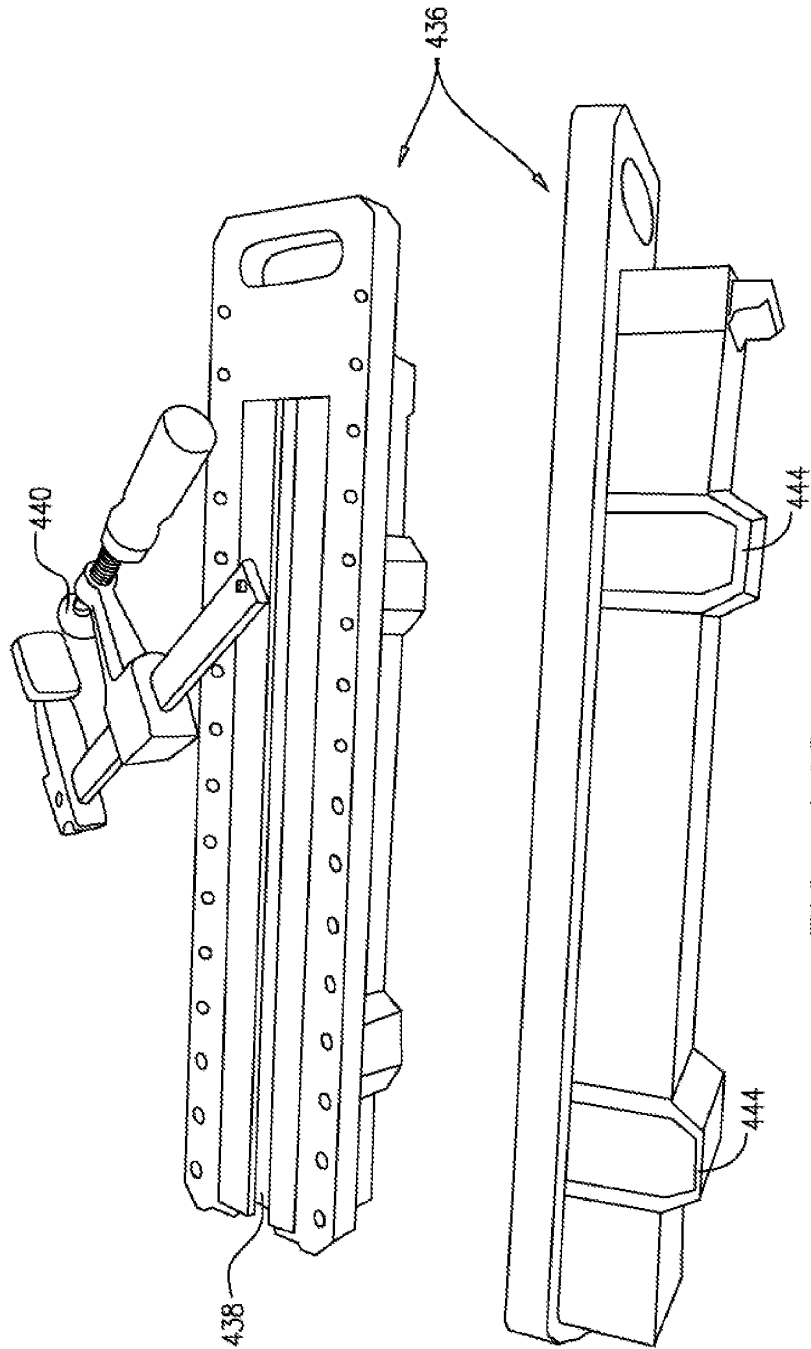
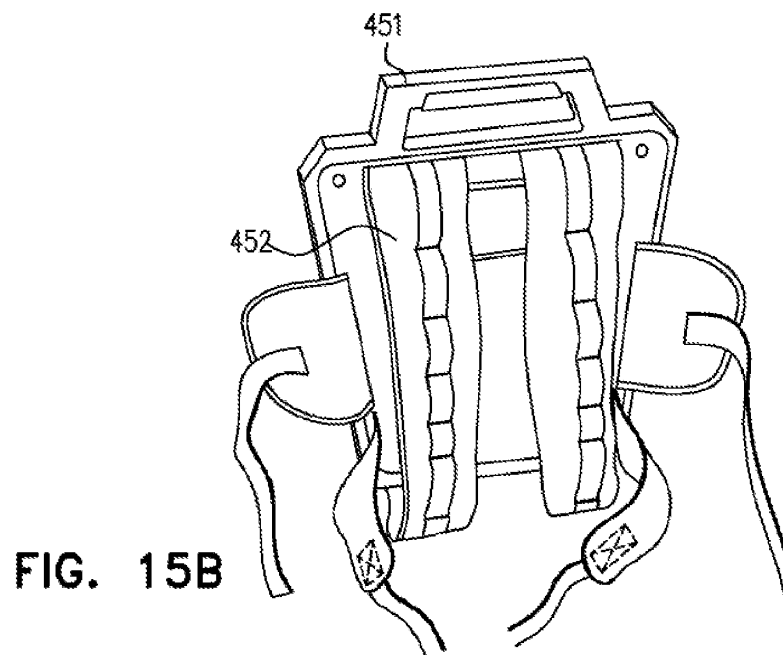
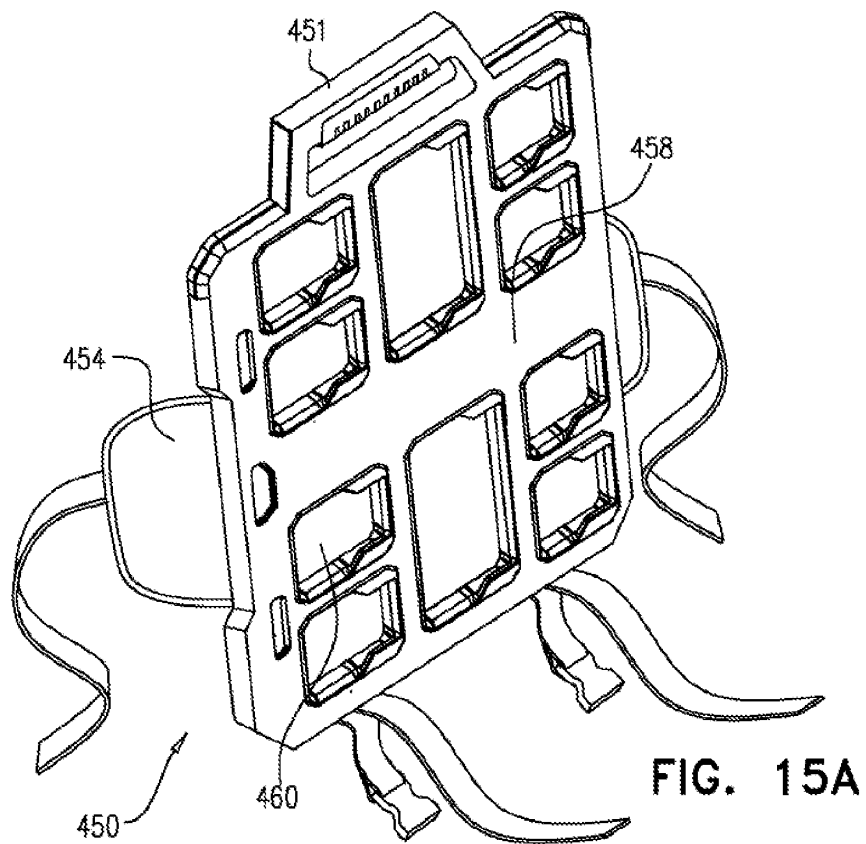


FIG. 14C



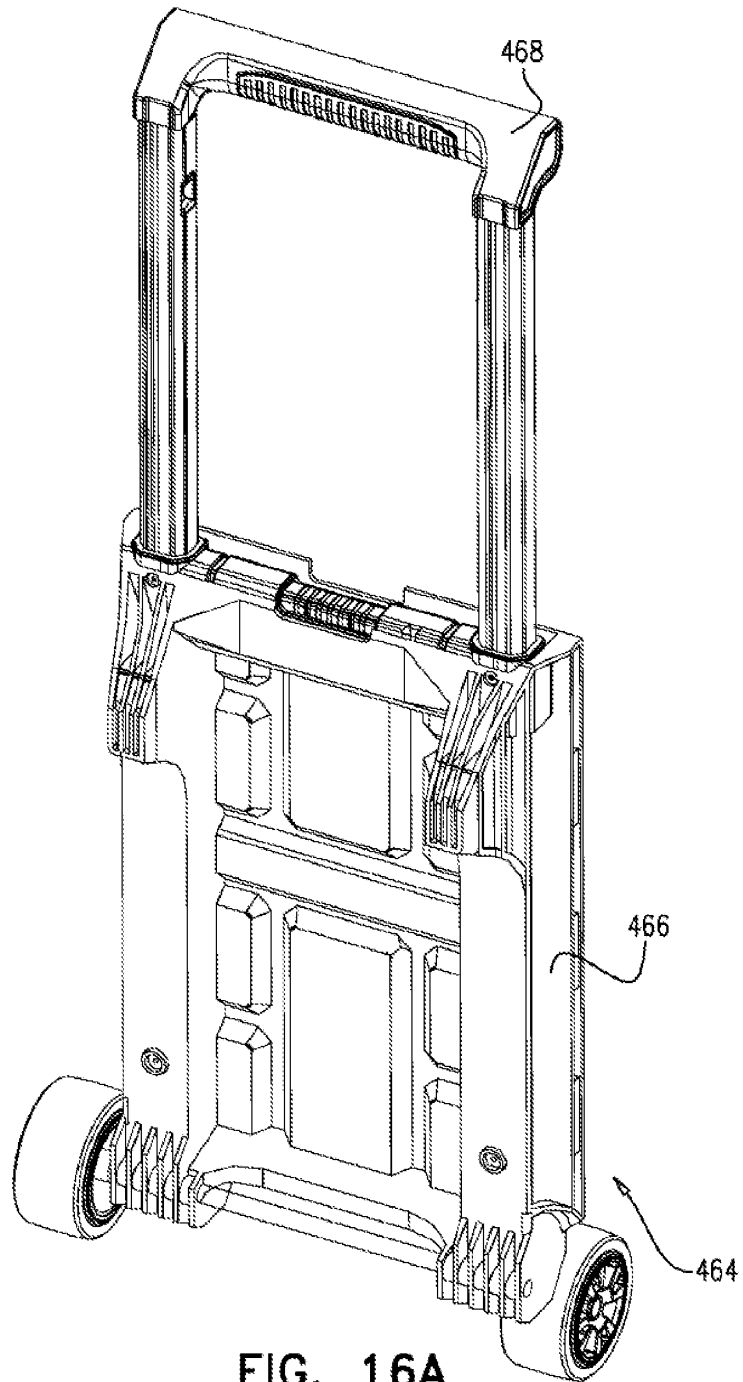


FIG. 16A

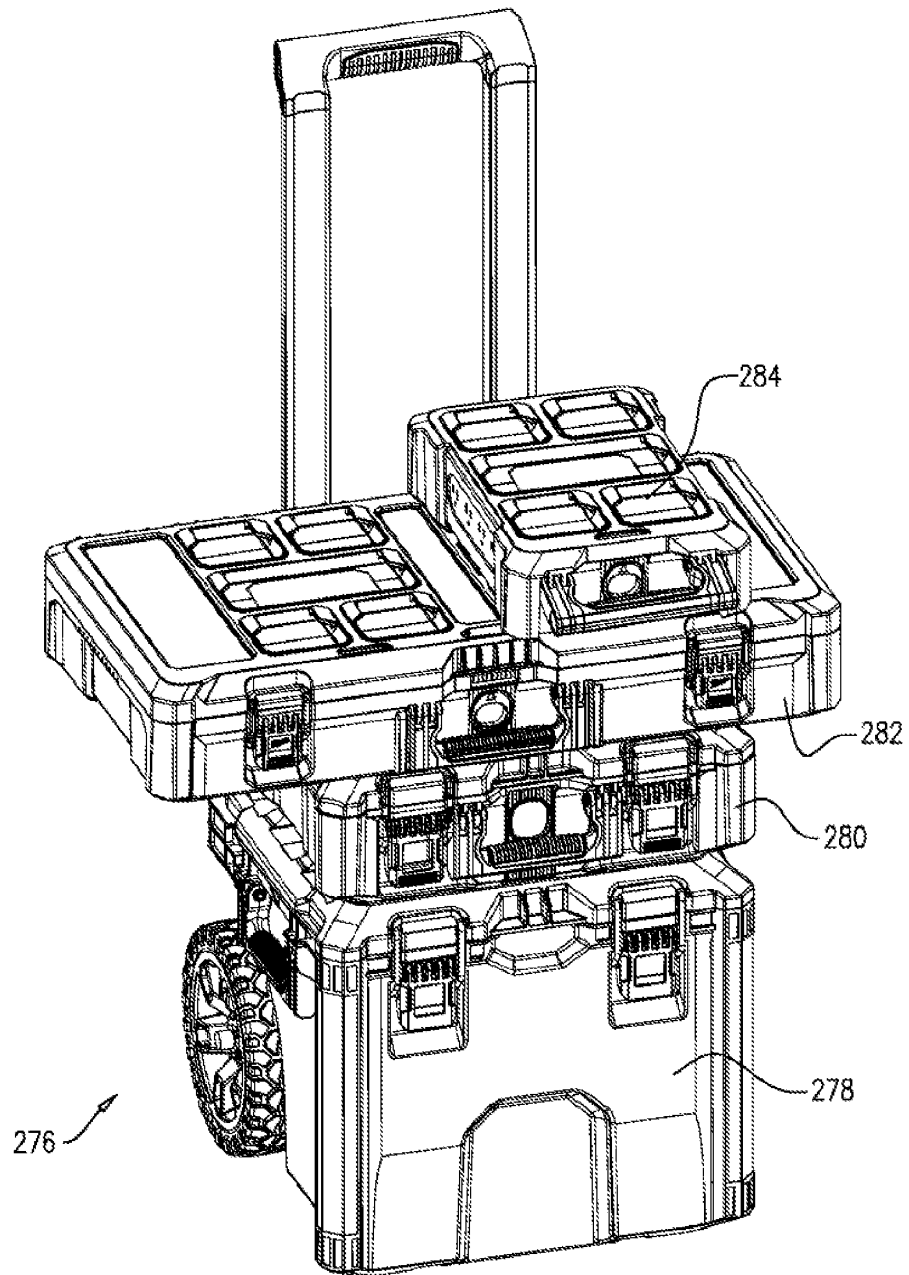


FIG. 16B

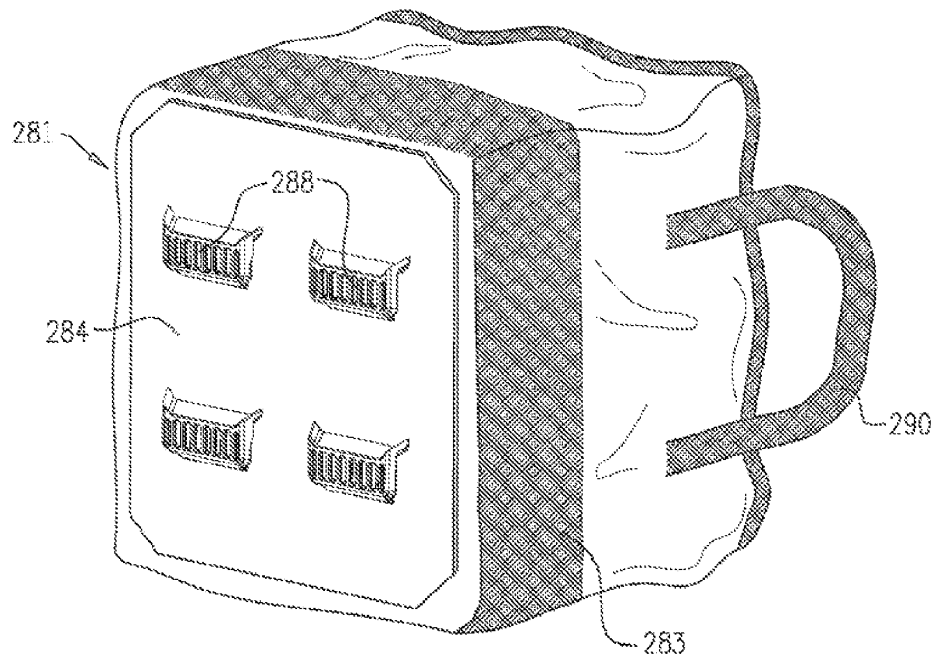


FIG. 17

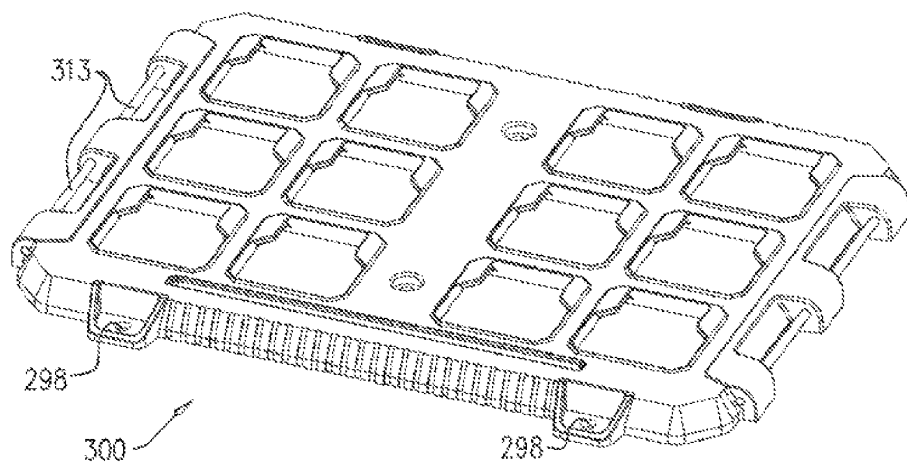
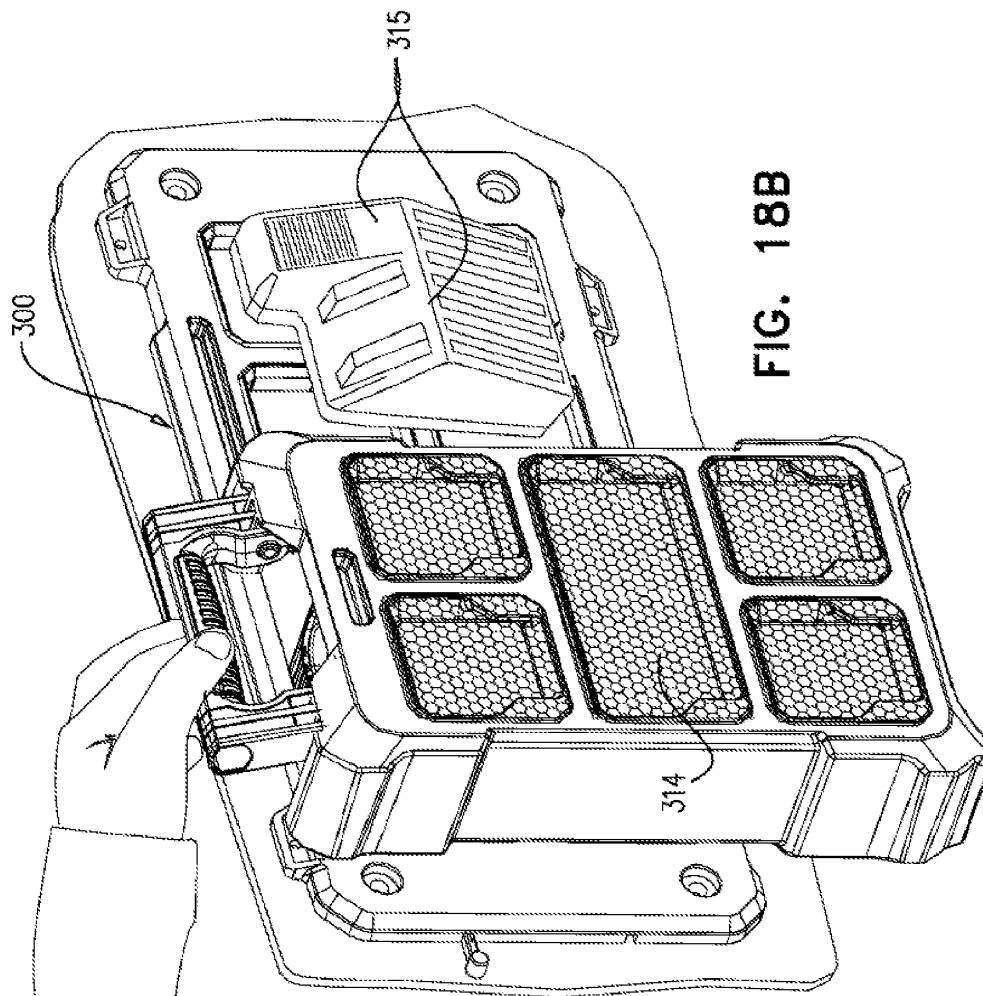


FIG. 18A



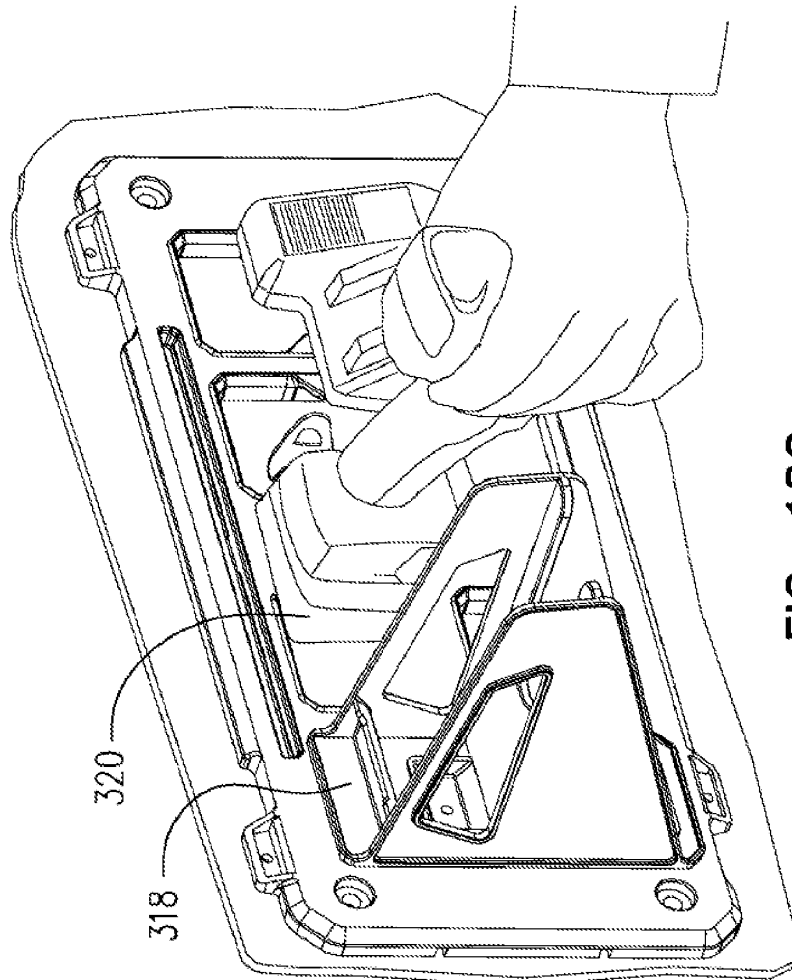


FIG. 18C

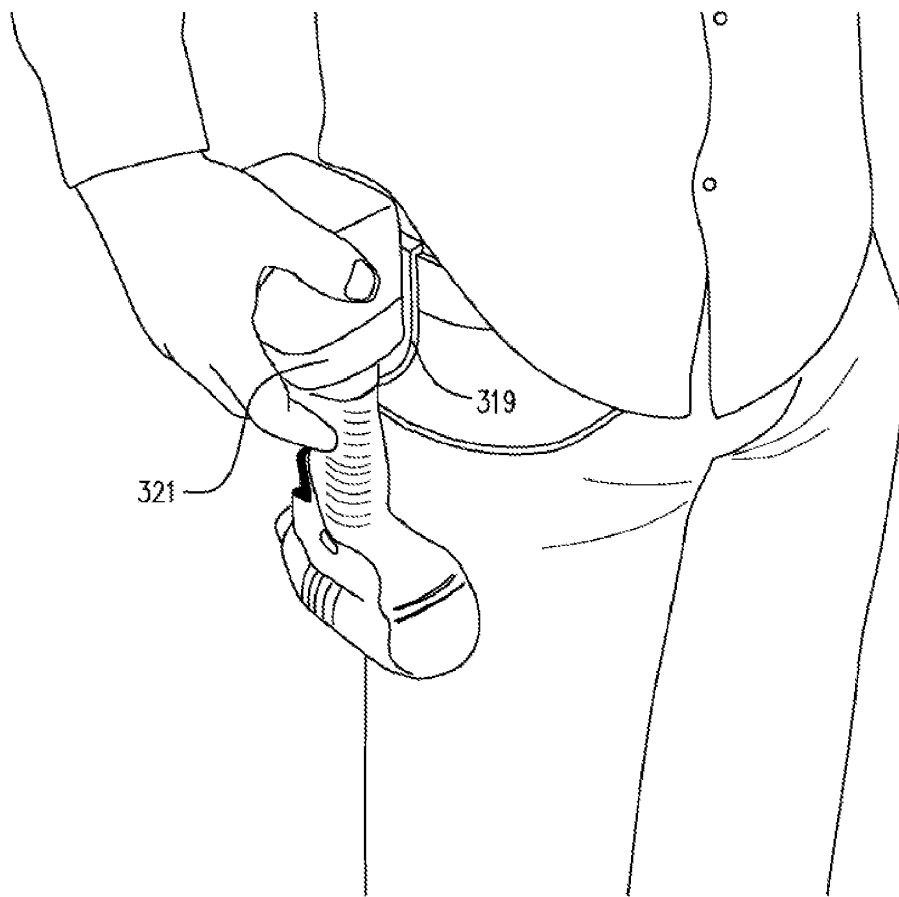
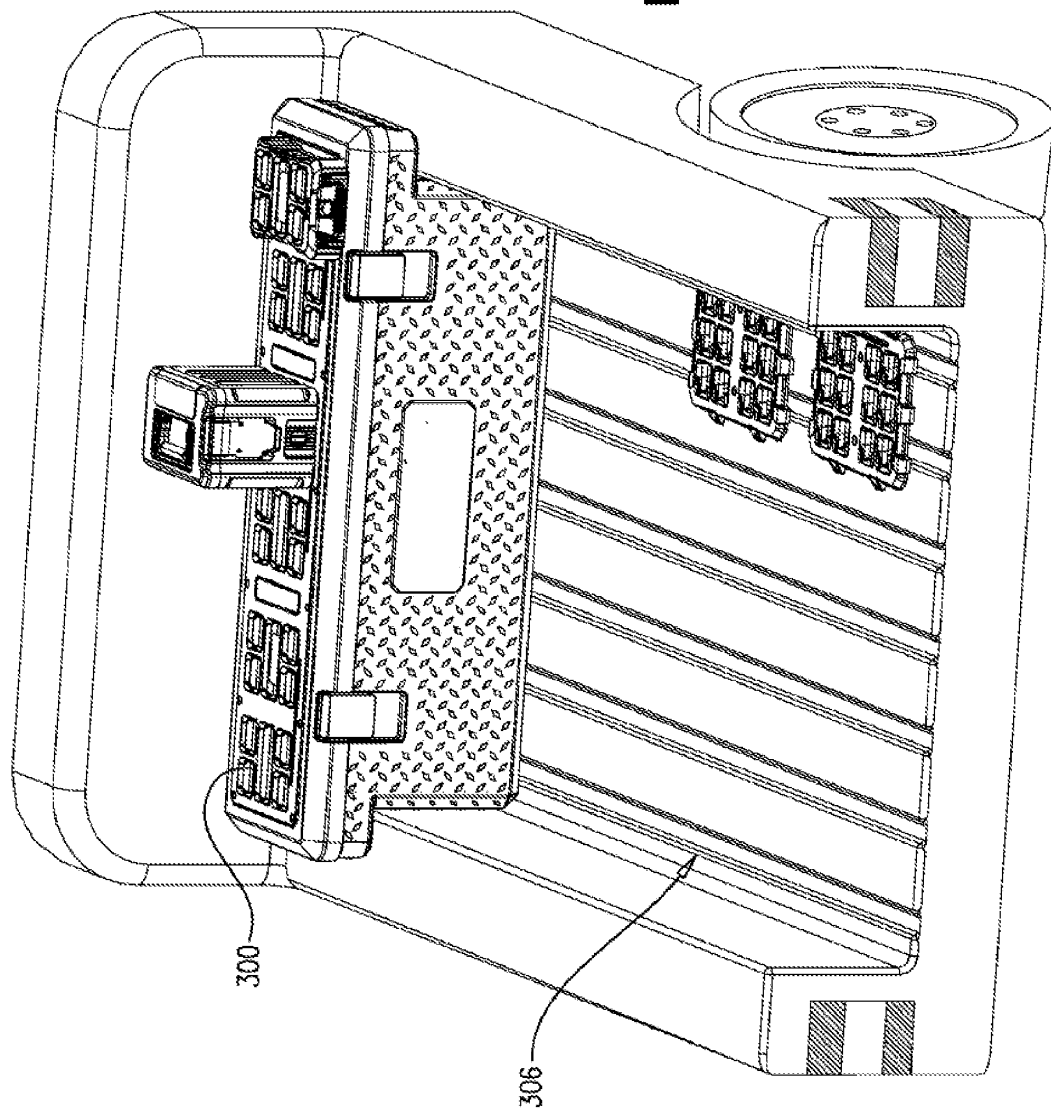


FIG. 19

FIG. 20



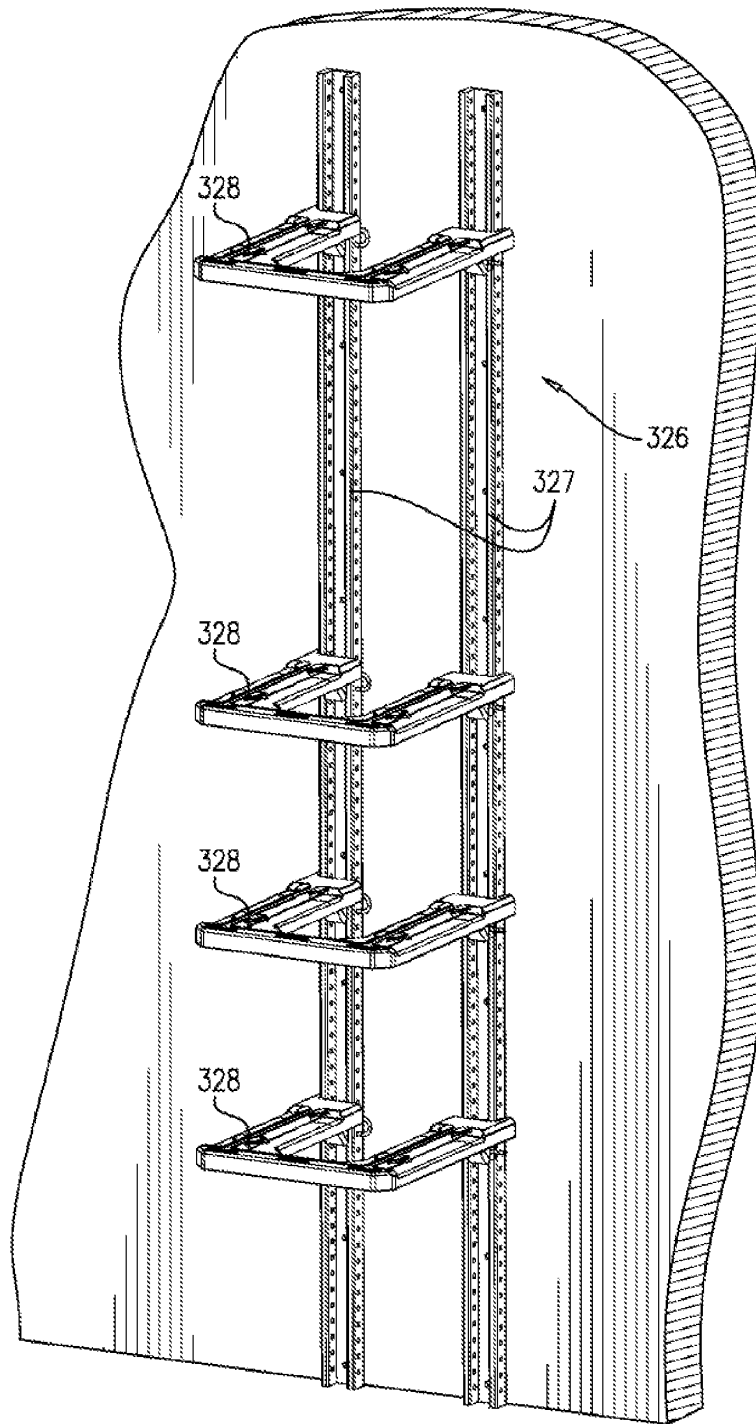


FIG. 21

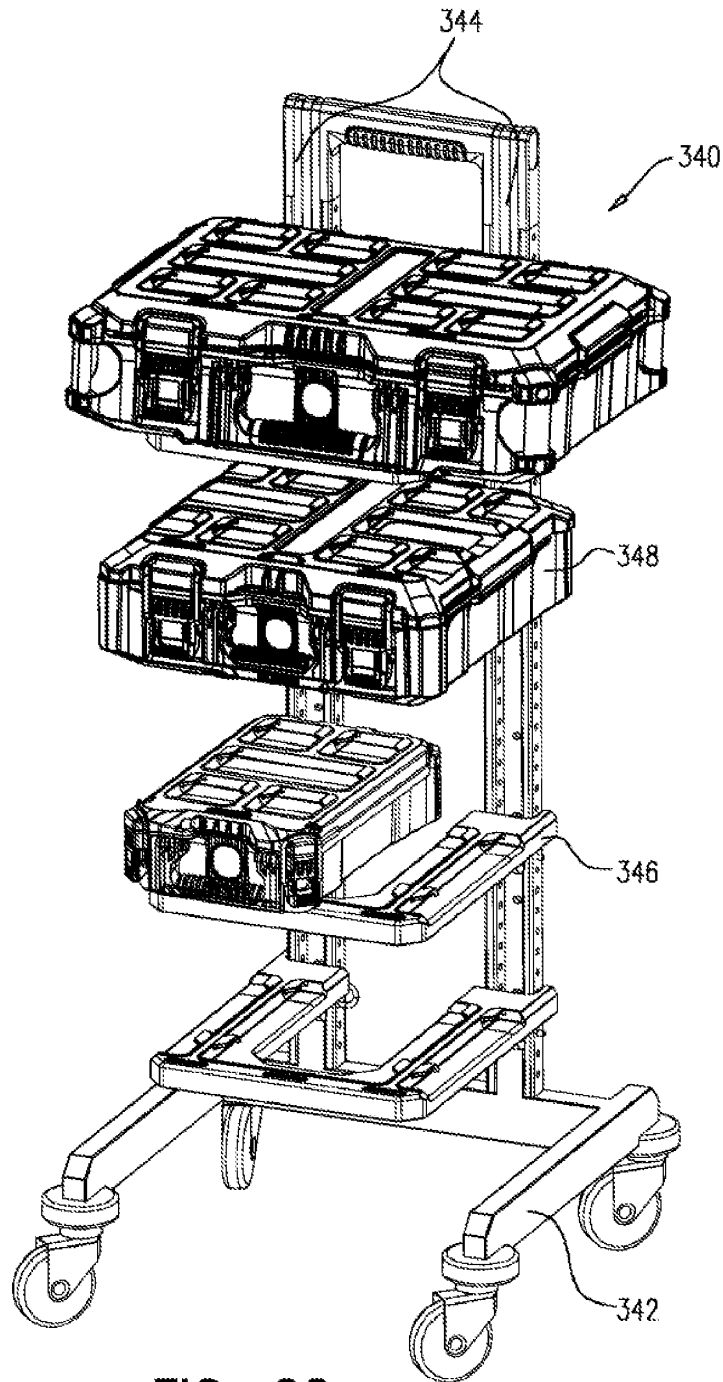
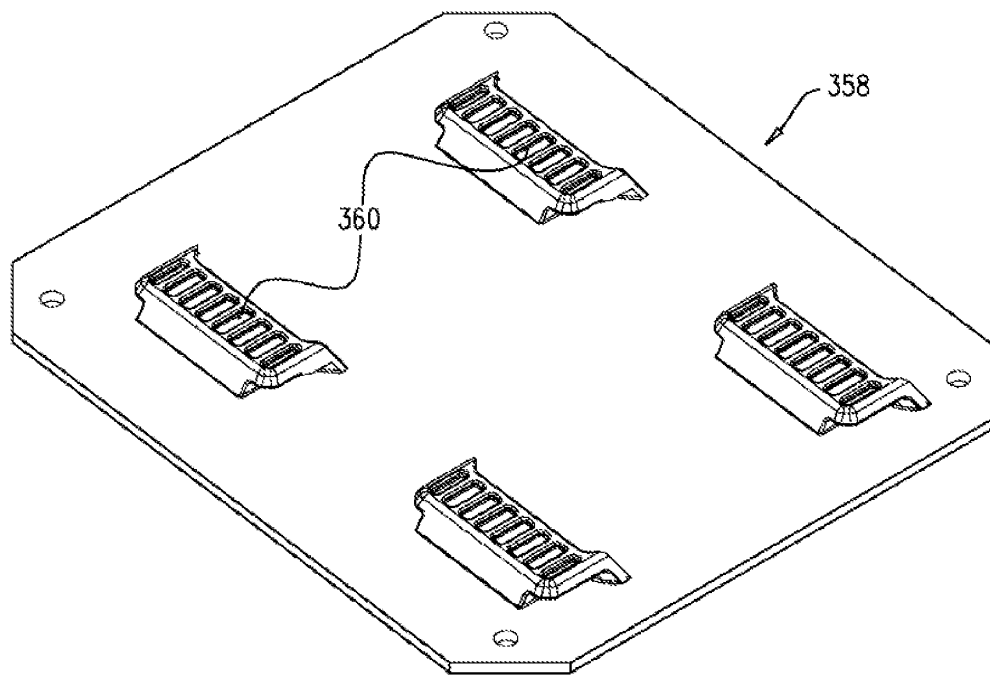
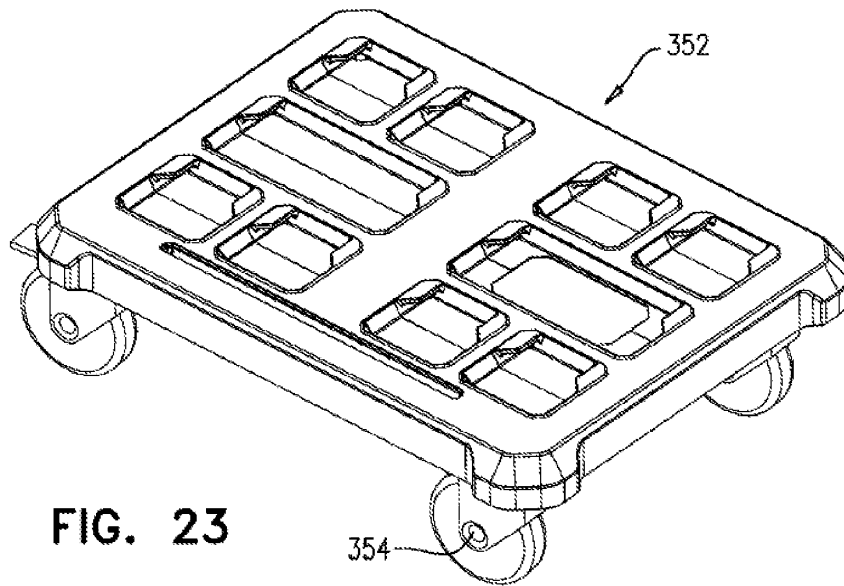


FIG. 22





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APPLICATION #
18/051,749

RECEIPT DATE / TIME
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ATTORNEY DOCKET #
066749-3677

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Utility Assembly and Coupling Mechanism

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CONFIRMATION # 9909

FILED BY Sarah Sesterhenn-Lee

PATENT CENTER # 61128252

FILING DATE -

CUSTOMER # 142078

FIRST NAMED
INVENTOR Yaron Brunner

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY Derek Campbell

Documents

TOTAL DOCUMENTS: 10

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
066749-3677- TrackOne_Request.pdf	2	Track One Request	124 KB
066749-3677- Continuing_Application_Transmittal.pdf	2	Transmittal of New Application	68 KB
066749-3677- Application_Data_Sheet.pdf	7	Application Data Sheet	99 KB
Warning: This is not a USPTO supplied ADS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
Application_RBVD_066749-	42	Application body structured text	56 KB

3677-APP.TEXT.docx document

Warning: All artifacts (SmartArt, Drawings, Charts, etc) have been replaced with images.

066749-3677_Figures.pdf		48	Drawings-only black and white line drawings	3495 KB
Preliminary_Amendment-066749-3677.pdf		7	-	100 KB
Preliminary_Amendment-066749-3677-A.PE.pdf	(1-1)	1	Preliminary Amendment	72 KB
Preliminary_Amendment-066749-3677-CLM.pdf	(2-6)	5	Claims	78 KB
Preliminary_Amendment-066749-3677-REM.pdf	(7-7)	1	Applicant Arguments/Remarks Made in an Amendment	61 KB
066749-3677_Executed_Declarations.pdf		7	Oath or Declaration filed	510 KB
066749-3677_PoA.pdf		2	Power of Attorney	185 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

First Named Inventor:	Yaron Brunner	Nonprovisional Application Number (if known):	To be determined
Title of Invention:	Utility Assembly and Coupling Mechanism		

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

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:
 - I. ☒ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**
 - i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
---OR---
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
 - ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.
 - II. ☐ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**
 - i. A request for continued examination has been filed with, or prior to, this form.
 - ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
 - iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
 - iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
 - v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature <u>/Derek H. Campbell/</u>	Date <u>November 1, 2022</u>
Name (Print/Typed) <u>Derek H. Campbell</u>	Practitioner Registration Number <u>70,608</u>
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.*	
☒ *Total of <u>1</u> forms are submitted.	

Privacy Act Statement

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

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

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

COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: UTILITY ASSEMBLY AND COUPLING MECHANISM

This declaration and assignment is directed to:

☐ The attached or filed herewith application of (list of named inventors) _____,

or

☒ The United States application or PCT international application
Number 15/826,232 filed on November 29, 2017.

Declaration

As the below named inventor, I hereby declare that:

The above-identified application ("Application") was made or authorized by me.

I believe that I am the original inventor or an original inventor of a claimed invention or discovery in the Application.

I have reviewed and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this Application in the United States of America.

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

Assignment

MILWAUKEE ELECTRIC TOOL CORPORATION
13135 West Lisbon Road
Brookfield, WI 53005

a Delaware Corporation

(hereinafter designated as the "Assignee"),

☐ I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:

or

☒ For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:

my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would

have been held and enjoyed by me had this assignment and sale not been made.

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

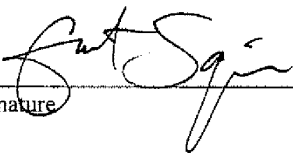
I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

LEGAL NAME OF INVENTOR

Grant T. Squiers



Signature

9.5.18

Date

COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: UTILITY ASSEMBLY AND COUPLING MECHANISM

This declaration and assignment is directed to:

☐ The attached or filed herewith application of (list of named inventors) _____,

or

☒ The United States application or PCT international application
Number 15/826,232 filed on November 29, 2017.

Declaration

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The above-identified application ("Application") was made or authorized by me.

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I have reviewed and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this Application in the United States of America.

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a Delaware Corporation

(hereinafter designated as the "Assignee"),

☐ I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:

or

☒ For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:

my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would

have been held and enjoyed by me had this assignment and sale not been made.

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

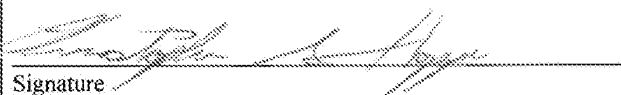
I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

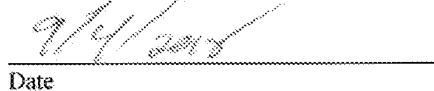
I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

LEGAL NAME OF INVENTOR

Christopher S. Hoppe


Signature


Date

COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: UTILITY ASSEMBLY AND COUPLING MECHANISM

This declaration and assignment is directed to:

☐ The attached or filed herewith application of (list of named inventors) _____,

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my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would

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I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

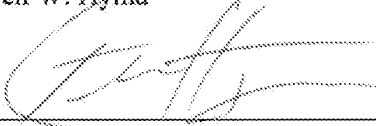
I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

LEGAL NAME OF INVENTOR

Steven W. Hymia


Signature

9/5/18
Date

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

Title of Invention: UTILITY ASSEMBLY AND COUPLING MECHANISM

As a below named inventor, I hereby declare that:

This declaration is directed to the application

☐ attached hereto, or

☒ United States application or PCT International Application No. 15/826,232
filed on November 29, 2017

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

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

I have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR § 1.56.

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

Legal Name of Inventor

Inventor: **Yaron BRUNNER**

Date: 4/01/18

Signature: _____

U.S. PATENT APPLICATION
for
UTILITY ASSEMBLY AND COUPLING MECHANISM

Inventors: Yaron Brunner
Grant T. Squiers
Christopher S. Hoppe
Steven W. Hyma

UTILITY ASSEMBLY AND COUPLING MECHANISM

CROSS-REFERENCE TO RELATED PATENT APPLICATIONS

[0001] This application is a continuation of U.S. Application No. 17/884,230, filed August 9, 2022, which is a continuation of U.S. Application No. 17/064,371, filed October 6, 2020, now U.S. Patent No. 11,427,382, which is a continuation of U.S. Application No. 16/752,441, filed January 24, 2020, now U.S. Patent No. 11,008,136, which is a continuation of U.S. Application No. 16/216,724, filed December 11, 2018, now U.S. Patent No. 10,583,962, which is a continuation of U.S. Application No. 15/826,232, filed November 29, 2017, now U.S. Patent No. 10,703,534, which is a continuation of International Application No. PCT/IL2017/050481, filed April 30, 2017, which claims priority to U.S. Provisional Application No. 62/459,076, filed February 15, 2017 and to U.S. Provisional Application No. 62/330,334, filed May 2, 2016, each of which are incorporated herein by reference in their entireties.

TECHNOLOGICAL FIELD

[0002] The present disclosure is directed to a container assembly and more specifically to a utility assembly comprising two or more detachably attachable utility modules. The disclosure is further concerned with a coupling mechanism facilitating detachably attaching the utility modules to one another.

[0003] The term 'utility module' is used hereinafter in its broad meaning and is meant to denote a variety of articles such as, storage containers, travel luggage, tool boxes, organizers, compacted work benches, cable storage, tools (e.g. hand tools, power generators and power sources), communication modules, carrying platforms, locomotion platforms, etc., of any shape and size, and wherein any utility module can be detachably attached to any other utility module.

[0004] The term 'utility assembly' as used herein denotes any set of utility modules configured for articulation to one another, either as a stationary unit or locomotive.

GENERAL DESCRIPTION

[0005] A first aspect of the disclosure concerns a coupling mechanism configured for readily detachably attaching any first article to any second article, wherein any first article and any second article can be any utility module.

[0006] The coupling mechanism comprises a male coupler at a face of one of the first utility module and the second utility module, and a female coupler at a face of the other one of the first utility module and the second utility module, said female coupler has a depressed locking location configured with at least one locking rib extending above a depressed surface and along a sliding path, and having an open edge facing in a first sense; said male coupler has a projecting locking location disposed in register with said depressed locking location and configured with at least one locking tongue extending along said engaging sliding path at a second sense, opposite to said first sense, and configured for arresting engagement at a space between said locking rib and depressed surface, the coupling mechanism further comprises at least one locking member for arresting the first utility module with respect to said second utility module and preventing sliding displacement along said sliding path.

[0007] The arrangement is such that at a locked position of a utility assembly the at least one locking tongue of the male coupler engages below said at least one locking rib of the female coupler and the at least one locking member is engaged, thus preventing any respective displacement between the first utility module and the second utility module, and retaining the coupling mechanism at an engaged and locked position.

[0008] The term 'first utility module' as used herein denotes any utility module bearing at least one second utility module over a first surface thereof. The second utility module of a utility assembly may comprise three or more stages of utility modules, and functions as first utility module with respect to a third stage utility module mounted thereover and serving in turn as a second utility module.

[0009] According to certain embodiments, one or more female couplers are configured at the top face of the first utility module, and one or more male couplers are configured at the bottom face of the second utility module

[0010] The disclosed subject-matter is directed to a utility module configured with at least one of a male coupling mechanism and a female coupling mechanism of the disclosure, a module assembly comprising one or more utility modules of the aforementioned type and a set of utility modules of the aforementioned type.

[0011] According to a configuration of the first aspect, there is provide a utility assembly comprising at least a first utility module and at least a second utility module, and comprising a coupling mechanism configured between the first utility module and the second utility module; said coupling mechanism comprising at one of a top face of the first utility module and a bottom face of the second utility module one or more depressed locking locations each configured with a locking rib, and at least one locking latch arresting location; and the other one of said top face of the first utility module and a bottom face of the second utility module comprises one or more projecting portions each configured with a locking tongue disposed in register with said one or more depressed locking locations, and at least one locking latch disposed in register with said at least one locking latch arresting location.

[0012] The arrangement is such that, at a locked position, the bottom face of the second utility module at least partially rests over the top face of the first utility module, and the one or more projecting tongues are arrested by the corresponding one or more locking ribs, and the at least one locking latch is arrested by corresponding at least one locking latch arresting location, thereby preventing sliding displacement between the first utility module and the second utility module, and further wherein disengaging the second utility module from the first utility module is facilitated by disengaging the at least one locking latch from the at least one locking latch arresting location.

[0013] Locking engagement between the second utility module and the first utility module is obtained when the one or more depressed locking locations and the one or more projecting portions are disposed behind one another (though not necessarily aligned).

[0014] According to a particular configuration of the coupling mechanism, the one or more depressed locking locations and the one or more locking latch arresting locations are configured at the top face of the first utility module, and the one or more projecting portions and the at least one locking latch are configured at the bottom face of the second utility module. According to

this configuration, locking between the first utility module and the second utility module is obtained by positioning the second utility module over the second utility module such that one or more locking tongues of the projecting portions engages with one or more respective locking ribs of the depressed locking locations, and wherein the locking latch interlocks with the respective locking latch arresting location.

[0015] The arrangement being such that the attaching engagement between the second utility module and the first utility module takes place when the one or more locking tongues and the corresponding one or more respective locking ribs are engaged, thereby preventing vertical separation between the utility modules (i.e. preventing lifting of the second utility module of the first utility module), and further when the locking latch is arrested by the respective locking latch arresting location, thereby preventing sliding displacement of the utility modules one with respect to the other (i.e. sliding displacement of the second module over the first module).

[0016] Disengaging the second utility module from the first utility module can be facilitated only after disengaging the locking latch from said locking latch arresting location.

[0017] According to a second aspect of the disclosure there is disclosed a coupling mechanism for a utility assembly comprising at least a first utility module and at least a second utility module, said coupling mechanism is configured between the first utility module and the second utility module and comprises at one of a top face of the first utility module and a bottom face of the second utility module with at least one depressed locking location configured with a locking rib, and at least one locking latch arresting location; and the other one of said top face of the first utility module and a bottom face of the second utility module comprises at least one projecting portion with a locking tongue disposed in register with said at least one depressed locking location, and at least one locking latch disposed in register with said at least one locking latch arresting location; and wherein at a locked position the bottom face at least partially rests over the top face, and the at least one projecting tongue is arrested by the corresponding at least one locking rib and the at least one locking latch is arrested by corresponding at least one locking latch arresting location, and further wherein disengaging the second utility module from the first utility module is facilitated by disengaging the at least one locking latch from the at least one locking latch arresting location.

[0018] Engaging the first and second utility modules into the locked position is provided by sliding the second utility module with respect to the first utility module along a sliding path defined by at least one of said at least one locking rib and said at least one locking tongue.

[0019] According to one particular configuration the at least one locking rib extends substantially parallel to the sliding path and according to another configuration the at least one locking rib extends substantially perpendicular and intersects the sliding path. A third aspect of the present disclosure is directed to a utility module being a mobile carrier unit and comprising at least one carrier engagement surface, compatible for interlocking engagement in a detachable manner with a first engagement surface of a utility module.

[0020] The term carrier unit as used herein denotes any kind of propelled cart configured for detachably attaching and carrying load. The carrier unit may be a hand cart, a mobile tool cart, a mobile workshop, traveling luggage cart, a trolley, etc.

[0021] With particular reference to the third aspect, the carrier engagement surface can be larger than the utility module's first engagement surface corresponding with it. In this case, several utility modules may be interlocked simultaneously upon one carrier unit. According to one configuration there is disclosed a carrier unit comprising a manipulating arrangement, a locomotion system, and an engagement surface comprising one or more engaging elements. The carrier unit is designated for detachable interlocking engagement with one or more utility modules, each comprising a first engagement surface configured with one or more first engaging elements compatible for detachable interlocking engagement with the carrier engaging elements.

[0022] According to yet configuration there is disclosed an assembly comprising a carrier unit comprising an engagement surface comprising one or more engaging elements, and at least one utility module configured with at least one first engagement surface comprising one or more first engaging elements compatible for detachable interlocking engagement with the carrier unit's engaging elements.

[0023] According to a modification of this aspect, there is also provided a container unit comprising a top member configured with a second engagement surface of the utility module, said top member, according to one example constitutes a cover of the utility module.

[0024] The arrangement is such that a container unit can be readily and easily applied over and interlockingly articulated to a carrier unit, or over a utility module configured with a second engagement surface mimicking the first engagement surface second engagement surface mimicking the first engagement surface of the carrier unit.

[0025] Engagement between the carrier unit and the container, and further between two containers, is facilitated by any locking mechanism of the disclosure hereinabove and hereinafter.

[0026] According to a specific example, there is a latching mechanism, wherein the first engaging elements of the carrier unit are configured for interlocking engagement with engaging elements of the mating surface of the respective utility module. The latching mechanism may assume various configurations, e.g. male-female couplings, dovetail couplings, and the like. The arrangement being such that only a minor displacement is required in order to lockingly mount, and respectively detach, a utility module over the carrier unit.

[0027] According to one specific configuration, the detachable interlocking engagement mechanism between the carrier engaging elements and the utility module's first engaging elements is a dovetail engagement mechanism, comprising laterally projecting shoulders configured on one of the carrier engagement surfaces and the first engagement surface of a utility module, and a shoulder receiving recess configured on the other one of one of the carrier engagement surfaces and the first engagement surface of a utility module; where said laterally projecting shoulders are configured for sliding engagement with said shoulder receiving recess.

[0028] According to a particular configuration, one or both of the carrier engagement surfaces and the first engagement surface of a respective utility module are configured with depressions, each accommodating respective laterally projecting locking shoulders. Said dovetail engagement mechanism members constitute said engaging elements, wherein said carrier engaging elements comprise one of said dovetail engagement members, while the utility module's first engaging element comprises the respective said dovetail engagement member.

[0029] According to another configuration, the detachable interlocking engagement mechanism between the carrier engaging elements and the utility module's first engaging

elements is an undercut engagement mechanism, comprising lateral projections configured on one of the carrier engagement surfaces and the first engagement surface of a container unit, and a receiving recess configured on the other one of one of the carrier engagement surfaces and the first engagement surface of a utility module; where said lateral projections are configured for engagement with said receiving recess.

[0030] Interlocking engagement of the utility module and the carrier unit takes place by placing the first engagement surface of a utility module over the carrier engagement surface, such that the utility module's first engaging elements are disposed shifted over the respective carrier engaging elements of the carrier unit, and are then slidingly shifted to obtain sliding interlocking engagement therebetween.

[0031] The detachable interlocking engagement mechanism may further comprise a locking mechanism configured for preventing unintentional detaching of the slidingly engaging elements once they are fully interlocked, i.e. to prevent detaching of the utility module from the carrier unit or from another utility module.

[0032] According to one configuration, the locking mechanism, comprises a locking pin that is configured for snappingly protruding from one of the engagement surfaces into a designated nook on the other engagement surface. This prevents the engaging surfaces from sliding relatively to each other, and by that it prevents said engaging elements from being slidingly separated once interlocked.

[0033] According to one configuration, the carrier engagement surface of the carrier unit constitutes a top wall of the carrier unit, when the carrier unit is balanced horizontally to the ground, and wherein the utility module's first engagement surface constitutes a bottom wall of the container unit, when the utility module is balanced horizontally to the ground. The utility module can further comprise a second engagement surface constituting its top wall, or a cover, when the utility module is balanced horizontally to the ground. The second engagement surface of the utility module simulates the carrier engagement surface as it is compatible for engaging with another utility module's first engagement surface.

[0034] Any one or more of the following features, designs and configurations, can be implemented in a utility module, a utility assembly, locking mechanism, and the carrier unit and assembly according to the present disclosure, individually or in various combinations thereof:

[0035] A single locking rib can extend at rear end of a depressed locking location (i.e. the female coupler may comprise a single locking rib) and substantially perpendicular to the sliding path;

[0036] Two locking ribs can extend at side edges of a depressed locking location (i.e. the female coupler may comprise two locking ribs) and disposed substantially parallel to the sliding path;

[0037] Two locking ribs can each extend at a respective side edge of two neighboring depressed locking locations, said locking ribs disposed substantially parallel to the sliding path;

[0038] The utility assembly can be modular wherein a top face of a first utility module can interlock with a bottom face of a second utility module disposed thereover in a substantially fully overlapping relation, or with a bottom face of at least one second utility module only partially overlapping therewith;

[0039] A second utility module overlapping a significant portion of a first utility module can be configured with a single release latch for displacing several locking latches articulated therewith;

[0040] Two or more second utility modules can be mounted over a first utility module, each being independently detachable attachable over the first utility module;

[0041] The at least one second utility module is configured for snap-type locking over the first utility module;

[0042] A release latch for displacing the locking latch into disengagement from the locking latch arresting location can be disposed at a front face of the respective second utility module;

[0043] The at least one locking latch and the at least one locking latch arresting location can be disposed at a front portion of the respective utility modules;

[0044] At least one of the first utility module and the second utility module are configured with a gliding surface facilitating displacement and positioning the respective second utility module at the locking position with respect to the first utility module;

[0045] The gliding surface reduces tolerances between the projecting portion and the depressed locking location receiving same;

[0046] One or both of the locking tongue and locking rib can be configured with a slanting surface at corresponding orientation, along the sliding path, for reducing or substantially elimination tolerance therebetween;

[0047] One or both of a front edge of the projecting portion and a corresponding front edge of the depressed locking location can be slanted for gliding positioning of the second utility module into true locking position over the first utility module;

[0048] The locking latch can be configured for displacement in a direction substantially normal to a respective face of a utility module;

[0049] The locking latch can be spring biased and configured for normally projecting from a face of the respective first or second utility module;

[0050] The locking latch can be manipulable to be opened through an opening configured at a front wall of the respective utility module;

[0051] Corners of the utility modules can be reinforced;

[0052] One or more of the utility modules can be a container module, and the utility assembly can be a container assembly/tool caddy;

[0053] The container module can be compartmented and can be configured with sub-containers and sub-compartments;

[0054] The top face of the container module can be configured as a lid or as a functional component of the container module;

[0055] A lid of a second container can be opened also when articulated and locked in position over a first container;

[0056] A lid of a first container can be opened also when a second container is articulated and locked in position thereabove;

[0057] At least one of the container modules can be a locomoting container and can be configured with an arrangement for locomoting said container module. Where the locomoting container is attached to other container modules it can facilitate for locomoting the utility assembly;

[0058] The container modules can be configured with carrying arrangement disposed at any one or more of its faces. According to a particular configuration, a front face of the container modules is configured with a carrying handle and according to another configuration side faces of the container modules can be configured with a carrying handle;

[0059] Examples of utility modules can be any one or more of a cooler box, a workpiece grip, a power supply (e.g. power bank, generator), hand tools, power tools, a locomotive platform (e.g. a work dolly), powered or not, a tactical unit (e.g. military gear, scientific equipment, communications equipment, personal gear, outdoor gear, etc.);

[0060] A tool caddy can be configured with a carrying handle (e.g. telescopic);

[0061] A utility module can be a soft-shell container with at least a rigid face portion configured with a male/female coupler;

[0062] The utility module can be an interface coupling module, i.e. functions only as a coupling interface;

[0063] The interface coupling module can be attached to a surface of any element or object and by different arrangements, fixedly or detachably;

- [0064]** The interface coupling module can be a cargo interface module for a utility vehicle, so as to attach one or more utility modules to the vehicle;
- [0065]** The cargo interface module can be a bed cargo module, a roof rack module, etc.;
- [0066]** The interface coupling module can be a surface mount for attaching utility modules, e.g. a floor mount, wall mount, wall rack, etc.;
- [0067]** The interface coupling module can be a tool mount/rack;
- [0068]** The interface coupling module can be belt mount for mounting of utility modules (e.g. a hand tool) to a workers belt;
- [0069]** The interface coupling module can be an interface mount module for coupling two utility modules to one another, e.g. for articulating two utility modules, both configured with a similar male coupler or a female coupler, and wherein the interface mount module is configured at both faces with another of male coupler or a female coupler;
- [0070]** The interface coupling module can be a back pack carrying module, for facilitating attachment and carrying of utility modules;
- [0071]** A top face of a utility module can be configured with a carrying handle, said carrying handle displaceable between a stowed position and a carrying position, wherein at the stowed position said carrying handle at least partially extends within a niche and does not to interfere with the coupling mechanism;
- [0072]** The carrier unit may include one or more auxiliary engagement surfaces positioned on an exterior face of the carrier unit. For example, an auxiliary engagement surface can be configured at a bottom face of the carrier unit;
- [0073]** The carrier unit may include a second engagement surface simulating/mimicking the first engagement surface of the utility module;
- [0074]** A utility module may be configured with one or more auxiliary first and second engagement surfaces;

[0075] The carrier engagement surface may be a connectivity platform detachably attached to the exterior surface of the carrier unit, facilitating a cart unit or a carrier unit according to the present disclosure;

[0076] One or both of the utility module's first and second engagement surfaces may be detachably attached to an exterior surface of the utility module;

[0077] The carrier engagement surface and the utility module's first engagement surface may be like elements;

[0078] The utility module's first and second engagement surfaces may be like elements;

[0079] The carrier unit's engaging elements and the utility module's first engaging elements may be similar elements;

[0080] One engagement surface may include several engaging elements and one locking mechanism;

[0081] The coupling mechanism is configured for spontaneous displacement into locking engagement within a locking receptacle, wherein manual interference is required only for unlocking the locking mechanism and detaching a utility module from a respective utility module or carrier unit;

[0082] The coupling mechanism can be a spring biased locking pin, normally projecting from a respective engagement surface;

[0083] One or both of the carrier unit and the utility module may further include a locking mechanism designated to prevent unintentional separation of the engagement surfaces while they are interlocked;

[0084] The locking mechanism is manipulable between an unlocked position in which said engagement surfaces may slide upon each other, and a locked state in which the engagement surfaces may not slide upon each other;

[0085] The locking mechanism may be configured with a biasing mechanism for snap arresting at least at its locked state;

[0086] The locking mechanism may be configured with a manually operated activating portion for switching between said unlocked and locked positions.

[0087] The carrier unit may be assembled together with other carrier units the same way it's assembled with the utility modules;

[0088] The locomotion system of the carrier unit may comprise a wheel system (e.g. axially fixed roller wheels, swivel wheels, etc.), a sliding platform, caterpillar tracks, etc;

[0089] The locomotion system of the carrier unit comprises, according to a particular example, several fixed axis wheels, wherein the perimeter of said wheels is tangent with a base edge of the carrier unit;

[0090] At an assembled configuration, where one or more utility modules are attached to the carrier unit, the assembly can be positioned vertically wherein a side face of the one or more containers rest over a supporting surface. According to a particular example, at this position the carrier unit and container assembly are configured with stability members for retaining their stability while positioned vertically to the ground;

[0091] The carrier unit may be stable while positioned horizontally to the ground, by a support system projecting from a bottom face thereof. The support system may comprise friction enhancing surfaces to restrict displacement of the assembly while placed over a bearing surface;

[0092] The carrier unit may be foldable to a more compact configuration;

[0093] The carrier unit may comprise an external storage box detachably interconnectable to its exterior walls;

[0094] The carrier unit may comprise a power supply detachably interconnectable to its exterior walls;

[0095] The carrier unit's transporting system may be motorized while powered via said power supply;

[0096] The carrier unit may further include a locking mechanism to insure interlocking connection of the engagement surfaces;

[0097] The container unit may comprise non-rigid portions;

[0098] The carrier unit may comprise at least one manipulating arrangement, configurable between a stowed position in which the manipulating arrangement is retracted, and a manipulating position in which the manipulating arrangement is extracted. The manipulating arrangement may be a telescopic or foldable handle;

[0099] The manipulating arrangement may be a gripping handle, a D-grip handle, a T-grip handle, a flexible strap, etc.

EMBODIMENTS

[00100] The present disclosure also encompasses embodiment as defined in the following numbered phrases. It should be noted that these numbered embodiments intended to add to this disclosure and is not intended in any way to be limiting.

[00101] 1. A coupling mechanism configured for readily detachably attaching a first utility module to a second utility module, the coupling mechanism comprising a male coupler at a face of one of the first utility module and the second utility module, and a female coupler at a face of the other one of the first utility module and the second utility module, said female coupler having a depressed locking location configured with at least one locking rib extending above a depressed surface and along a sliding path, and having an open edge facing in a first sense; said male coupler having a projecting locking location disposed in register with said depressed locking location and configured with at least one locking tongue extending along said engaging sliding path at a second sense, opposite to said first sense, and configured for arresting engagement at a space between said locking rib and depressed surface, the coupling mechanism further comprises at least one locking member for arresting the first utility module with respect to said second utility module and preventing sliding displacement along said sliding path.

[00102] 2. The coupling mechanism of embodiment 1, wherein said female coupler is configured at the top face of the first utility module, and the male coupler is configured at the bottom face of the second utility module.

[00103] 3. The coupling arrangement of embodiment 1 or 2, wherein the at least one locking rib extends substantially parallel to the sliding path.

[00104] 4. The coupling arrangement of embodiment 1 or 2, wherein the at least one locking rib extends substantially perpendicular and intersects the sliding path.

[00105] 5. The coupling arrangement of embodiment 1 or 2, wherein the female coupler comprises a single locking rib extends at rear end of a depressed locking location and substantially perpendicular to the sliding path.

[00106] 6. The coupling arrangement of embodiment 1 or 2, wherein the female coupler comprises two locking ribs extend at side edges of a depressed locking location and disposed substantially parallel to the sliding path.

[00107] 7. The coupling arrangement of embodiment 1 or 2, wherein the female coupler comprises two locking ribs each extend at a respective side edge of two neighboring depressed locking locations, said locking ribs disposed substantially parallel to the sliding path.

[00108] 8. A coupling mechanism for a utility assembly that comprises at least a first utility module and at least a second utility module, said coupling mechanism is configured between the first utility module and the second utility module; one of a top face of the first utility module and a bottom face of the second utility module comprises at least one depressed locking location configured with a locking rib, and at least one locking latch arresting location; and the other one of said top face of the first utility module and a bottom face of the second utility module comprises at least one projecting portion with a locking tongue disposed in register with said at least one depressed locking location, and at least one locking latch disposed in register with said at least one locking latch arresting location; and wherein at a locked position the bottom face at least partially rests over the top face, and the at least one projecting tongue is arrested by the corresponding at least one locking rib and the at least one locking latch is arrested by corresponding at least one locking latch arresting location, and further wherein disengaging the second utility module from the first utility module is facilitated by disengaging the at least one locking latch from the at least one locking latch arresting location, such that engaging the first and second utility modules into the locked position is provided by sliding the second utility module with respect to the first utility module along a sliding path defined by at least one of said at least one locking rib and said at least one locking tongue.

[00109] 9. The coupling arrangement of embodiment 8, wherein the at least one locking rib extends substantially parallel to the sliding path.

[00110] 10. The coupling arrangement of embodiment 8, wherein the at least one locking rib extends substantially perpendicular and intersects the sliding path.

[00111] 11. The coupling arrangement of embodiment 8, wherein a single locking rib extends at rear end of a depressed locking location and substantially perpendicular to the sliding path.

[00112] 12. The coupling arrangement of embodiment 8, wherein two locking ribs extend at side edges of a depressed locking location and disposed substantially parallel to the sliding path.

[00113] 13. The coupling arrangement of embodiment 8, wherein two locking ribs each extend at a respective side edge of two neighboring depressed locking locations, said locking ribs disposed substantially parallel to the sliding path.

[00114] 14. The coupling arrangement of any one of embodiments 8 to 13, further comprising a release latch for displacing the locking latch into disengagement from the locking latch arresting location can be disposed at a front face of the respective second utility module.

[00115] 15. The coupling arrangement of any one of embodiments 8 to 14, wherein the at least one locking latch and the at least one locking latch arresting location are disposed at a front portion of the respective utility modules.

[00116] 16. The coupling arrangement of any one of embodiments 8 to 15, wherein the locking latch is configured for displacement in a direction substantially normal to a respective face of a utility module.

[00117] 17. The coupling arrangement of any one of embodiments 8 to 16, wherein locking latch is spring biased and configured for normally projecting from a face of the respective first or second utility module.

[00118] 18. The coupling arrangement of any one of embodiments 8 to 17, wherein the locking latch is manipulable to be opened through an opening configured at a front wall of the respective utility module.

[00119] 19. The coupling arrangement of any one of embodiments 1 to 18, wherein one or both of the locking tongue and locking rib are configured with a slanting surface at corresponding orientation along the sliding path.

[00120] 20. The coupling arrangement of any one of embodiments 1 to 19, wherein one or both of a front edge of the projecting portion (or the projecting locking location) and a corresponding front edge of the depressed locking location are slanted for gliding positioning of the second utility module into locking position over the first utility module.

[00121] 21. The coupling mechanism of any one of embodiments 1 to 20, wherein the first utility module is configured for detachably attaching one or more second utility modules thereto.

[00122] 22. A coupling mechanism for a utility assembly comprising at least a first utility module and at least a second utility module, said coupling mechanism is configured between the first utility module and the second utility module and comprises at one of a top face of the first utility module and a bottom face of the second utility module with at least one depressed locking location configured with a locking rib, and at least one locking latch arresting location; and the other one of said top face of the first utility module and a bottom face of the second utility module comprises at least one projecting portion with a locking tongue disposed in register with said at least one depressed locking location, and at least one locking latch disposed in register with said at least one locking latch arresting location; and wherein at a locked position the bottom face at least partially rests over the top face, and the at least one projecting tongue is arrested by the corresponding at least one locking rib and the at least one locking latch is arrested by corresponding at least one locking latch arresting location, and further wherein disengaging the second utility module from the first utility module is facilitated by disengaging the at least one locking latch from the at least one locking latch arresting location.

[00123] 23. A utility assembly comprising at least a first utility module and at least a second utility module, and comprising a coupling mechanism according to any one of embodiments 1 to 21, the coupling mechanism being configured between the first utility module and the second utility module.

[00124] 24. A utility assembly comprising at least a first utility module and at least a second utility module, and comprising a coupling mechanism for readily detachably attaching the first and second utility modules, the coupling mechanism being configured between the first utility module and the second utility module; said coupling mechanism comprising at one of a top face of the first utility module and a bottom face of the second utility module one or more depressed locking locations each configured with a locking rib, and at least one locking latch arresting location; and the other one of said top face of the first utility module and a bottom face of the second utility module comprises one or more projecting portions each configured with a locking tongue disposed in register with said one or more depressed locking locations, and at least one locking latch disposed in register with said at least one locking latch arresting location; such that at a locked position, the bottom face of the second utility module at least partially rests over the top face of the first utility module, and the one or more projecting tongues are arrested by the corresponding one or more locking ribs, and the at least one locking latch is arrested by corresponding at least one locking latch arresting location, thereby preventing sliding displacement between the first utility module and the second utility module, and disengaging the second utility module from the first utility module is facilitated by disengaging the at least one locking latch from the at least one locking latch arresting location.

[00125] 25. The utility assembly of embodiment 24, wherein the first and second utility modules are in a locking engagement when said one or more depressed locking locations and the one or more projecting portions are disposed behind one another.

[00126] 26. The utility assembly of embodiment 24 or 25, wherein said one or more depressed locking locations and said one or more locking latch arresting locations are configured at the top face of the first utility module, and the one or more projecting portions and the at least one locking latch are configured at the bottom face of the second utility module.

[00127] 27. The utility assembly of any one of embodiments 24 to 26, wherein at least one second utility module is configured for snap-type locking over the first utility module.

[00128] 28. The utility assembly of any one of embodiments 24 to 27 wherein engaging the first and second utility modules into the locked position is provided by sliding the second utility

module with respect to the first utility module along a sliding path defined by at least one of said at least one locking rib and said at least one locking tongue.

[00129] 29. The utility assembly of any one of embodiments 24 to 28, wherein the at least one locking rib extends substantially parallel to the sliding path.

[00130] 30. The utility assembly of embodiment 29, wherein the at least one locking rib extends substantially perpendicular and intersects the sliding path.

[00131] 31. The utility assembly of embodiment 29, wherein a single locking rib extends at rear end of a depressed locking location and substantially perpendicular to the sliding path.

[00132] 32. The utility assembly of embodiment 29 wherein two locking ribs extend at side edges of a depressed locking location and disposed substantially parallel to the sliding path.

[00133] 33. The utility assembly of embodiment 29, wherein two locking ribs each extend at a respective side edge of two neighboring depressed locking locations, said locking ribs disposed substantially parallel to the sliding path.

[00134] 34. The utility assembly of any one of embodiments 24 to 33, wherein a top face of a first utility module interlocks with a bottom face of a second utility module disposed thereover in a substantially fully overlapping relation, or with a bottom face of at least one second utility module only partially overlapping therewith.

[00135] 35. The utility assembly of any one of embodiments 24 to 33, wherein the second utility module overlaps a significant portion of a first utility module and is configured with a single release latch for displacing several locking latches articulated therewith.

[00136] 36. The utility assembly of any one of embodiments 24 to 35, further comprising a release latch for displacing the locking latch into disengagement from the locking latch arresting location can be disposed at a front face of the respective second utility module.

[00137] 37. The utility assembly of any one of embodiments 24 to 36, wherein the locking latch is configured for displacement in a direction substantially normal to a respective face of a utility module.

[00138] 38. The utility assembly of any one of embodiments 24 to 37, wherein the locking latch is spring biased and configured for normally projecting from a face of the respective first or second utility module.

[00139] 39. The utility assembly of any one of embodiments 24 to 38, wherein two or more second utility modules can be mounted over a first utility module, each being independently detachable attachable over the first utility module.

[00140] 40. The utility assembly of any one of embodiments 24 to 39, wherein at least one of the first utility module and the second utility module are configured with a gliding surface facilitating displacement and positioning the respective second utility module at the locking position with respect to the first utility module.

[00141] 41. The utility assembly of any one of embodiments 24 to 40, wherein one or more of the utility modules is a container module, and the utility assembly is a container assembly or a tool caddy.

[00142] 42. The utility assembly of embodiment 41, wherein the container module is compartmented and optionally configured with sub-containers and sub-compartments.

[00143] 43. The utility assembly of embodiment 41 or 42, wherein a top face of the container module is configured as a lid or as a functional component of the container module.

[00144] 44. The utility assembly of any one of embodiments 41 to 43, wherein the container modules is a locomoting container, configured with an arrangement for locomoting said utility assembly.

[00145] 45. The utility assembly of any one of embodiments 41 to 44, wherein the container modules is configured with a carrying arrangement disposed at any one or more of its faces, optionally being a carrying handle.

[00146] 46. The utility assembly of any one of embodiments 24 to 40, wherein one or more of the utility modules is a soft-shell container with at least a rigid face portion.

[00147] 47. The utility assembly of any one of embodiments 24 to 40, wherein said first utility module is a mobile carrier unit.

[00148] 48. The utility assembly of any one of embodiments 24 to 47, further comprising a locking mechanism for preventing unintentional separation of the modules while they are interlocked.

[00149] 49. The utility assembly of any one of embodiments 24 to 48, wherein the first utility module is configured for detachably attaching at least two second utility modules thereto.

[00150] 50. A mobile carrier unit comprising at least one carrier engagement surface, compatible for interlocking engagement in a detachable manner with a first engagement surface of a utility module, said carrier engagement surface having (i) one or more depressed locking locations each configured with a locking rib and at least one locking latch arresting location, configured for engagement with said first engagement surface of a utility module that comprises at least one locking latch and one or more projecting portions, each projecting portion being configured with a locking tongue, or (ii) at least one locking latch and one or more projecting portions each configured with a locking tongue for engagement with said first engagement surface of a utility module that comprises one or more depressed locking locations, each depressed locking locations configured with a locking rib and at least one locking latch arresting location.

[00151] 51. The mobile carrier unit of embodiment 50, wherein once associated with the utility module, said locking tongue becomes disposed in register with said one or more depressed locking locations, and at least one locking latch become disposed in register with said at least one locking latch arresting location.

[00152] 52. The mobile carrier unit of embodiment 50 or 51, configured for detachable interlocking engagement with one or more utility modules, each utility module comprising a first engagement surface.

[00153] 53. The mobile carrier unit of any one of embodiments 50 to 52, further comprising at least one of a manipulating arrangement and a locomotion system.

[00154] 54. An assembly comprising a mobile carrier unit of any one of embodiments 50 to 53 having at least one carrier engagement surface, and at a least one utility module having a first engagement surface, the utility module being detachably interlocked with the mobile carrier unit by engaging said first engagement surface with said carrier engagement surface.

[00155] 55. The assembly of embodiment 54, wherein the mobile carrier unit and the at least one utility module are detachably interlocked with one another by a dovetail engagement mechanism, that comprises laterally projecting shoulders configured on one of the carrier engagement surfaces and the first engagement surface of a utility module, and a shoulder receiving recess configured on the other one of one of the carrier engagement surfaces and the first engagement surface of a utility module; where said laterally projecting shoulders are configured for sliding engagement with said shoulder receiving recess.

[00156] 56. The assembly of embodiment 55, wherein one or both of the carrier engagement surfaces and the first engagement surface of a respective utility module are configured with depressions, each accommodating respective laterally projecting locking shoulders.

[00157] 57. The assembly of embodiment 54, wherein the mobile carrier unit and the at least one utility module are detachably interlocked with one another by an undercut engagement mechanism, comprising lateral projections configured on one of the carrier engagement surfaces and the first engagement surface of a container unit, and a receiving recess configured on the other one of one of the carrier engagement surfaces and the first engagement surface of a utility module; where said lateral projections are configured for engagement with said receiving recess, such that interlocking engagement of the utility module and the carrier unit takes place by placing the first engagement surface of a utility module over the carrier engagement surface, such that the utility module's first engaging elements are disposed shifted over the respective carrier engaging elements of the carrier unit, and are then slidingly shifted to obtain sliding interlocking engagement therebetween.

[00158] 58. The assembly of any one of embodiments 54 to 57, further comprising a locking mechanism configured for preventing unintentional detaching of the utility module from the carrier unit.

[00159] 59. The assembly of embodiment 58, wherein the locking mechanism comprises a locking pin that is configured for snappingly protruding from one of the engagement surfaces into a designated nook on the other engagement surface.

[00160] 60. An interface coupling module comprising at least one engagement surface, compatible for interlocking engagement in a detachable manner with a first engagement surface of a utility module, said interface coupling module comprising an engagement surface having (i) one or more depressed locking locations each configured with a locking rib and at least one locking latch arresting location, configured for engagement with said first engagement surface of a utility module that comprises at least one locking latch and one or more projecting portions, each projecting portion being configured with a locking tongue, or (ii) at least one locking latch and one or more projecting portions each configured with a locking tongue for engagement with said first engagement surface of a utility module that comprises one or more depressed locking locations, each depressed locking locations configured with a locking rib and at least one locking latch arresting location

[00161] 61. The interface coupling module of embodiment 60, being configured for detachable or fixed attachment to a surface of an object.

[00162] 62. The interface coupling module of embodiment 60 or 61, being a cargo interface module for a utility vehicle configured for attaching one or more utility modules to the vehicle.

[00163] 63. The interface module of embodiment 60 or 61, being a surface mount for attaching utility modules

[00164] 64. The interface module of embodiment 60 or 61, being a tool mount or a tool rack.

[00165] 65. The interface module of embodiment 60 or 61, being a belt mount for mounting of utility modules to a workers belt;

[00166] 66. The interface module of embodiment 60 or 61, being an interface mount module for coupling two utility modules to one another.

BRIEF DESCRIPTION OF THE DRAWINGS

[00167] In order to better understand the subject matter that is disclosed herein and to exemplify how it may be carried out in practice, embodiments will now be described, by way of non-limiting examples only, with reference to the accompanying drawings, in which: Figs. 1A to 6G are directed to a first example of a locking mechanism, wherein:

[00168] Fig. 1A is a top perspective view of a container assembly according to an example of the present disclosure;

[00169] Fig. 1B is an exploded perspective view of the container assembly of Fig. 1A;

[00170] Fig. 1C is a bottom, front perspective view of Fig. 1B;

[00171] Fig. 1D is a bottom, rear perspective view of Fig. 1B;

[00172] Fig. 2A is a sectioned portion along line A-A in Fig. 1A;

[00173] Fig. 2B is a sectioned portion along line B-B in Fig. 1A;

[00174] Fig. 2C is a sectioned portion along line C-C in Fig. 1A;

[00175] Figs. 3A to 3D are consecutive steps illustrating locking engagement of the locking tongue of the second container with the respective locking rib of the first container;

[00176] Figs. 4A to 4D are consecutive steps illustrating locking engagement of the locking latch of the second container with the respective locking latch arresting location of the first container;

[00177] Figs. 5A to 5E schematically demonstrate modularity of a container assembly according to the disclosure;

[00178] Figs. 6A to 6G are various combinations of a modular container assembly according to examples of the present disclosure.

[00179] Figs 7A to 12C are directed to a carrier unit and another example of a locking mechanism, wherein:

[00180] Fig. 7A is container carrier assembly according to an example of the disclosure, illustrating a top, left perspective view of a container unit, mounted on top of a carrier unit;

[00181] Fig. 7B is a top, left perspective view of a second container unit, mounted on top of a first container unit, which in turn is mounted on top of a carrier unit according to an example of the present disclosure;

[00182] Fig. 8A is a top, left perspective view of a carrier unit, illustrating the carrier engagement surface in further detail;

[00183] Figs. 8B and 8C are a top and a bottom perspective view of a carrier unit, illustrating the container unit's first engagement surface in further detail;

[00184] Fig. 9A is a side section along line F-F in Fig. 7A, illustrating the container unit and the carrier unit unattached;

[00185] Fig. 9B is a side section along line F-F in Fig. 7A illustrating the container unit and the carrier unit attached;

[00186] Fig. 9C is a close-up view of Fig. 9B;

[00187] Fig. 9D is a sectioned view along line F-F in Fig. 7A illustrating the interlocking engagement of the carrier engaging elements together with the container unit's first engaging elements;

[00188] Fig. 10A is a sectioned view along line D-D in Fig. 7A, illustrating the locking mechanism;

[00189] Fig. 10B is an enlarged image of the portion marked M in Fig. 10A;

[00190] Fig. 11A illustrates different sizes of container units forming an assembly, at a tilted orientation;

[00191] Fig. 11B illustrates an assembled configuration balanced vertically relative to the ground;

[00192] Fig. 12A shows a container assembly wherein the female coupler comprises two locking ribs extending at respective side edges of two neighboring depressed locking locations;

[00193] Fig. 12B is a section along line H-H in Fig. 12A;

[00194] Fig. 12C illustrates the utility module apart from the container and flipped, so as to expose the mating coupling mechanism.

[00195] Figs. 13A-13D, 14A-14C, 15A-15B, 16A-16B, 17, 18A-18C, and 19-24 are different embodiments and configurations of utility modules and utility assemblies according examples of this disclosure.

DETAILED DESCRIPTION OF EMBODIMENTS

[00196] Reference is first being made to Figs. 1A to 6G, directed to a first configuration of a coupling mechanism. For sake of convenience the utility modules are exemplified as containers and respectively the utility assembly is illustrates as a tool caddy. It is however appreciated that the utility modules can be of any type, shape or size, as discussed hereinabove and as will be exemplified below.

[00197] Attention is first directed to Figs. 1A to 4D, illustrating a container assembly generally designated 20, comprising four containers 22, 24, 26 and 28 disposed in a triple stage configuration, the stages designated A, B and C. In the illustrated example containers 24 and 26 of the second stage are half-size and overlap the footprint of the first stage container 22 and the third stage container 28, wherein the first container 22 is for example a hand tool container and containers 24 to 28 are organizers or the like.

[00198] The term 'first container' as used herein denotes a container bearing over a top face thereof at least one other container, said at least one other container denoted herein as a 'second container'. It is thus appreciated that a second container of a container assembly comprising three or more stages of containers' serves as second container when referred to the first stage container, and as a first container when referred to a third stage container mounted thereover. Accordingly, in the illustrated example of Figs. 1A-2C, container 22 is a first container and containers 24 and 26 are second containers, whilst they function as first containers when discussing locking arrangement with respect to third stage container 28.

[00199] Each of the containers is configured with a lid L constituting a top face of the respective container, said lids being pivotally attached and securely articulated to the respective container through a toggle locking latch 29. Each top face (see Fig.1B) is configured with several depressed locking locations 32 and it is seen that the at least two depressed locking locations are disposed behind one another along imaginary lines I, II and III (though not necessarily aligned).

[00200] Each such depressed locking location is in turn configured with a laterally projecting locking rib 36 extending from a rear portion of the depressed locking location 32 towards a front face of the container. The locking rib 36 has a flat top surface 38 substantially flush with a top surface of the respective lid L, and a slanting bottom surface 40. A front portion 46 of the depressed locking location 32 is slanted too, in the same orientation as bottom surface 40 (i.e. substantially parallel thereto).

[00201] Furthermore, the top face, namely lid L of the containers, is configured with at least one locking latch arresting location in the form of a recess 50 disposed at a front portion of the respective top face and configured with a slanted rear wall portion 52 and a right angled front wall portion 53.

[00202] A bottom face 54 of each container 22, 24, 26 and 28 is configured with several projecting portions 56, extending in register with the depressed locking locations 32, and it is seen that the at least two projecting portions 56 are disposed behind one another along the imaginary lines I, II and III (though not necessarily aligned).

[00203] Each projecting portions 56 is configured with a locking tongue 60 laterally projecting rearwards and having a slanted surface 62 corresponding with slanting surface 40 of locking rib 36. Also, a front portion 66 of the projecting portions 56 slants substantially parallel to the slanted surface 62 of the locking tongue 60.

[00204] It is essential that the at least two depressed locking locations 32 and the at least two projecting portions 56 be disposed behind one another (though not necessarily aligned), as exemplified by imaginary lines I, II and III (though not necessarily aligned).

[00205] A plunger-like locking latch 70 is disposed at a front portion of each container, said locking latch 70 disposed in register with the recesses 50 and configured with a slanting rear wall

portion 72 and a right angled front wall portion 74, corresponding with the sloping wall portions of the recesses 50. The locking latch 70 has an elongate finger engaging aperture 73 (Fig. 2A) accessible through an aperture 75 formed in register at a front wall face of the respective second container, said locking latch 70 being normally biased to project under force of coiled spring 71, such that the locking latch 70 is axially displaceable between a projecting, locked position and a temporary retracted position during transition into the locked position.

[00206] The locking latch 70 is typically single-handedly manipulable between its locking position and its releasing position, such that manipulation of the locking latch to disengage it from the locking latch arresting location 50 can be easily facilitated using one hand simultaneously with gripping the carrying handle 80. As seen in Figs. 1A-2C, manipulating the finger engaging aperture 73, being part of locking latch 70, is disposed opposite to and at finger-reach distance from the carrying handle 80 when the handle is at its carrying position tilted upwards. This enables a grab, release and go detachment of the second utility module from the first utility module in a simple single-handed operation.

[00207] When it is required to detachably attach a second container over a first container, the former is placed over the later (Fig. 3A), placing the projecting portions 56 within the depressed locking location 32 (Fig. 3B) with the locking tongues 60 engaging below and being gradually arrested by the respective locking ribs 36 arresting is obtained (Fig. 3C) until complete arresting is obtained (Fig. 3D). Simultaneously, as the locking tongues 60 arrest by the locking ribs 36, the locking latch 70 of the second container slides into the locking latch arresting location (recess 50) and finally snaps into locking engagement therewith. It is noted (Figs 4A to 4D) that first (Figs. 4B and 4C) the locking latch 70 displaces upwards against the biasing effect of spring 71, and when the second container reaches the final locking position over the first container, the locking latch 70 plunges into arresting position within the recess 50.

[00208] At the locked position the second container is attached over the top face of the first container, such that they can be moved as an integrated unit. Detaching of a second container from a first container is easily facilitated by unlocking, obtained by displacing the locking latch 70 upwards against the biasing effect of spring 71, whereby the second container can be displaced with respect to the first container and detached therefrom.

[00209] As further seen in Figs. 1A-4D, each of the containers 22, 24, 26 and 28, is configured at a front face thereof with a tiltable carrying handle 80, for carrying a respective container or the entire container assembly 20. Also seen, some of the containers can be configured with fender-like protectors 90 at their corners.

[00210] Further attention is now directed to Figs. 5A to 5E demonstrating examples of modularity of a container assembly according to the disclosure. Fig. 5A is a planner top view of a first container 94 and Figs. 5B to 5E illustrate second containers superimposed over the first container 94. In Fig. 5B a second container 96 is substantially as big as the first container 94, i.e. having the same footprint. In Fig. 5C a second container 98 is as wide as the first container 94, however narrower in depth, and disposed at a front portion of the first container. In Fig. 5D two second containers 99A and 99B are mounted over the first container 94 and occupy substantially the entire footprint thereof, whereby each of containers 99A and 99B is independently attachable and detachable from the first container 94, as exemplified hereinabove. In Fig. 5E two second containers 100A and 100B are positioned over the first container 94, occupying the entire width though narrower in depth and extending from a front portion of the first container 94.

[00211] Turning now to Figs. 6A to 6K, there are illustrated several examples of container assemblies, subassemblies and their components. Fig. 6A illustrates a disassembled container assembly collectively designated 104 and comprising a base container 106, a chest of drawers module 108 comprising three drawers, a tool caddy module 110, a compartmented storage module 112 and a half-sized compartmented storage module 114 (typically two of which). It is noted that the base container is configured for locomoting and comprises at a rear thereof wheels 116 and a telescopic handle 118.

[00212] As can be appreciated from Figs. 6B through 6D, various container assemblies are illustrated, the arrangement is such that in practice any module can constitute either a first container or a second container, as defined hereinabove (though it is more likely that base container 106 serves as a first container).

[00213] Figs. 6E and 6F illustrate a chest of drawers module 108, illustrated separately in Fig. 6E and mounted over a similar drawer module 108 in Fig. 6F. It is appreciated that the drawers of each module can be locked at their closed position to prevent spontaneous opening thereof

whilst carrying a module. Furthermore, each module 108 is configured with a pair of carrying handles 115 disposed at top side wall portions thereof, to facilitate carrying of the module.

[00214] In Fig. 6G there is illustrated a subassembly comprising a first container in the form of a tool caddy module 110 and second container in the form of a compartmented storage module 112 attached thereto, whilst the lid 119 of the first container is open facilitating access to the contents thereof.

[00215] Further attention is now directed to Figs. 7A to 16B, showing a third aspect of the disclosure, namely a utility module being a mobile carrier unit and comprising at least one carrier engagement surface, compatible for interlocking engagement in a detachable manner with a first engagement surface of a second utility module. For sake of example only, the second utility module exemplified in the annexed drawings is in the form of a utility container. It is however appreciated that the utility modules can be of any type, shape or size, as discussed hereinabove and as will be exemplified below. Accordingly, the term container unit as used in the following description denotes any type of a utility module, as discussed herein the specification.

[00216] Attention is first directed to Fig. 7A, illustrating a container carrier assembly generally designated 200 comprising a container unit 202 (utility module) mounted on top of a carrier unit 206. The carrier unit 206 is equipped with a telescopic manipulating handle 210, a pair of rear wheels 208 and a set of horizontally stabilizing support legs 212 at a front portion of the carrier unit 206. The carrier unit 206 and the container unit 202 are engaged in an interlocking engagement via their engagement surfaces, i.e. a carrier engagement surface 216 at a top face of the a carrier unit 206 (best seen in Fig. 8A), and the container unit's first engagement surface 220 (namely its bottom face; best seen in Figs. 8B and 8C). The container unit 202 is configured with yet a second engagement surface 226 (namely the container's top face), simulating the carrier engagement surface 216. The container unit 202 further comprises a locking mechanism 230 configured for arresting within a respective notch 231 at the carrier engagement surface 216, to thereby to prevent displacement and separation of the engagement surfaces 216 and 220 once they are interlocked, as later will be explained.

[00217] The carrier engagement surface 216 seen in greater detail in Fig. 8A, illustrates a top perspective view of a carrier unit 206 with the telescopic handle 210 in a retracted position. The

carrier engagement surface 216 comprises multiple carrier engaging elements 236, depressed from the surface, and designated for interlockingly receiving respective container unit's first engaging elements 240, projecting from the first engagement surface (bottom face) 220 of the container unit 202.

[00218] Each carrier engaging element 236, is a so-called female coupler and has a depressed locking location configured with at least one locking rib extending above a depressed surface and along a sliding path and having an open edge facing in a first sense. As seen in the drawings, it is generally constituted by a receiving recessed depression 244 in the carrier engagement surface 216, configured with a pair of facing locking ribs 248, forming the aforementioned recess. The locking ribs 248 extend substantially parallel to sliding path of the container unit 202 with respect to the carrier unit 206, said path (designated Pin Figs. 7A and 10B). Further noted, side walls 250 of depressions 244 are sloped in order to allow directing of a container unit's first engaging element 240, mounted upon it, to its interlocking position.

[00219] A corresponding coupler configured at the container unit is a so-called male coupler comprising a projecting locking location disposed in register with said depressed locking location and configured with at least one locking tongue extending along said engaging sliding path at a second sense, opposite to said first sense, and configured for arresting engagement at a space between said locking rib and depressed surface. As seen, a single container unit's engaging element 240 is generally constituted a downwardly projecting outwards protrusion 258, projecting from the bottom face 220 of the container 202.

[00220] In order to lock the container 202 over the carrier unit 206, upon placing the container 202 over the carrier engagement surface 216 of carrier unit 206 one must mount the container unit's first engaging elements 240 into the depressions 244 and then slide the container 202 along the sliding path P (i.e. towards the locking ribs 248) so that the engaging elements 240 engage below said projecting ribs/shoulders 248 and the engaging elements 240 are thus arrested at a space between said locking ribs and the depressed surface, as seen in Fig. 9C. Interlocking engagement of the container (or any other utility module) can be facilitated by a single male-female locking mechanism of the aforementioned type, or by a plurality of such locking mechanism, at any location over the carrier unit 206.

[00221] The shape and size of the locking members is modular as far as the depression 244 in the carrier engagement surface 216, can be single or double in size (e.g. 236 and 236A in Fig. 8A, respectively), so it is large enough to accommodate two container unit's first engaging elements 240, or two neighboring container unit's first engaging elements.

[00222] Locking/engaging and detaching of this configuration is similar to a single locking module.

[00223] The engagement and locking mechanism is modular in the sense that any first article can be easily and readily articulated to a surface of any second article, wherein the articulation is strong and firm (i.e. substantially motionless).

[00224] With further reference to Fig. 7B, there are illustrated two containers 202A and 202B articulated over one another, the arrangement being such that the bottom face of the intermediate container 202A serves for engaging with the top face of the carrier unit 206 and likewise, the top face of the intermediate container 202A serves for engaging with the bottom face of the top container 202B, as discussed herein above. The arrangement is such that each stage is lockingly secured by the locking mechanism 230, wherein each stage can be detached from the stage below upon releasing locking engagement of the respective locking mechanism 230.

[00225] The locking mechanism 230 is shown in further detail in Figs. 10A and 10B. The locking mechanism comprises a locking pin 231 normally biased by spring 233 such that a tip 235 projects from a bottom surface of the container 202 (see also Fig. 8B) and is configured for snap arresting within a respective notch 231 configured at the engagement surface 216 of the carrier unit 206 (seen also in Fig. 8A). The locking pin 231 is slidable within a race at the side wall of the container, and comprises a finger manipulating portion at 237 (accessible through an opening at the side wall of the container), for displacing the locking pin, against the biasing effect of spring 233, into its disengaged position, thus facilitating sliding the container along the path P into disengagement from the carrier unit (or respective other container or utility module). The carrier unit 206 is further configured at a bottom end, with a pair of stability supports 264 (Figs. 8A, 11B), configured for supporting the carrier unit, with or without a container attached thereto, at an upright, i.e. vertical position, thus preventing it from tipping over, in particular with containers or any other utility module articulated thereto. Stability supports 264 can be,

according to a particular configuration, an extension of the telescopic handle 210, whereby the stability supports are functional as such only when the handle is fully contracted. However, in the illustration of Figs. 16A-16B the utility assembly 253 is maintained at its upright position owing to said stability supports 264 and further bearing over a side face 266 of the intermediate container 202A, being substantially flush with a bottom face of the stability supports 264.

[00226] With further reference to Figs. 12A to 12C there is illustrated a modification of articulation between a first utility module (container 300 in the particular example) and a second utility module (two work-piece supports 304 in the particular example). The container 300 is substantially similar to that illustrated in the previous examples, wherein the cover/lid 308 is configured with a plurality of female coupler members 310, each configured with a depressed locking location and a pair of locking ribs extending above the depressed surface and along a sliding path. The opposing locking ribs 312A and 312B have an open edge facing in a first sense (the introducing direction).

[00227] In the examples hereinbefore, engagement with a corresponding male coupler took place within the vicinity of a single coupling element, i.e. over two engaging ribs 312A and 312B of a single depressed locking location facing each other. However, in the example of Figs. 12A-12C engagement of the work-piece supports 304 takes place over two engaging ribs 312A and 312B of two neighboring depressed locking locations 308A and 308B. Accordingly, the male coupler of the two work-piece supports 304 is configured for arresting with the two engaging ribs 312A and 312B by two individual (separate) male couplers 316A and 316B, each configured for arresting one of the respective engaging ribs 312A and 312B. Arresting of the male projections 316 takes place as discussed before, by arresting below the respective engaging ribs, within the space at the depressed locking location. In spite of the relative narrow body structure of the work-piece supports 304, they are each configured with a locking mechanism 330, similar to locking mechanism 230 discussed hereinbefore.

[00228] Turning now to Figs. 13A-13D, 14A-14C, 15A-15B, 16A-16B, 17, 18A-18C, and 19-24, there are illustrated various examples of utility modules, utility assemblies and various configurations according to the disclosure.

[00229] Fig. 13A illustrates a utility module assembly generally designated 400, comprising a wheeled base container 402 supporting an intermediate container 404, bearing in turn a cooler box 406 and a power unit 408 disposed side by side over the intermediate container. At least the intermediate container 404 is configured at a bottom face thereof with a male-type coupling arrangement, for attachment over the cover of the base container, said cover configured with a respective female coupling arrangement. The cover of the intermediate container 404 is configured with a similar female coupling arrangement, and can thus engage with one the utility modules 406 and 408, each configured at its bottom face with a respective male-type coupling arrangement.

[00230] It is seen in Figs. 13B through 13D that the intermediate container 404 is fitted with a pivotal carrying handle 418 articulated at the top side walls thereof. The carrying handle has a thickness t and the arrangement is such that at the stowed/folded position (Figs. 13B, 13D) the handle 418 is received within a peripheral groove 422 extending over a top edge of the intermediate container 404 and a peripheral groove 424 extending at a bottom edge of the utility modules 408 and 406 (cooler box 406 and a power unit 408), such that the handle 418 does not constitute an obstacle in mounting and interlocking a utility module over another utility module. It is also seen that at least some of the utility modules are configured with side handles 428 serving both as carrying handles and as bumpers.

[00231] Figs. 14A to 14C illustrate a first utility module in the form of a container 430 supporting two detachable workpiece-piece supports 432 (attached as discussed herein before with reference to Figs. 12A-12C). Fig. 14C illustrates a utility module in the form of a work surface 436 configured with a vice race 438, so that a vice 440, or other workshop tools can be used. The workpiece-piece supports 432 are configured with a male type coupling having projecting locking locations 444 for engaging with respective female couplers.

[00232] In Figs. 15A and 15B there is illustrated a back-rack 450 being a substantially rigid platform having a carrying handle 451 and configured at one side thereof with a pair of adjustable shoulder harnesses 452, and an adjustable waist harness 454. The other side of the back-rack is configured as a universal utility mounting platform 458, configured with a plurality of attachment locations 460. In the illustrated example all attachment locations 460 are so-called female attachments (as discussed hereinabove in detail), however it is appreciated that the

attachment locations can just as well be male-type attachments, or a combination of male and female attachments. According to yet an example (not shown), one side of the carrying platform can be configured with male- type attachments, and an opposite side of the platform be configured with female-type attachments, wherein a user has the choice of attaching the platform to the harness system at an orientation of choice.

[00233] In Fig. 16A there is illustrated a utility module in the form of a wheeled carrying unit 464 (shown from a bottom side), similar to that disclosed in connection with Figs. 7A to 11B. The carrying unit 464 comprises a rigid platform 466 fitted at a top face thereof with a female/male attaching arrangement in accordance with the disclosure, such that any utility module according to the disclosure can be detachably attached thereto. Also provided is a telescopic manipulating handle 468 and a pair of wheels 466. The carrying unit can be fitted with a collapsible support plate configuring it into a pushcart (not shown).

[00234] Fig. 16B shows a utility assembly 276 comprising a wheeled base container 278 interlocked with a first intermediate container 280 mounted thereover (constituting a second stage of the assembly), and a second intermediate container 282 mounted thereover (constituting a third stage of the assembly 276), there being yet a fourth stage utility module container 284 mounted over the second intermediate container 282.

[00235] Whilst the second intermediate container 282 has a wider footprint than the first intermediate container 280, this does not constitute any difficulty as far as attaching it over the second intermediate container 282, and further, the top face of the second intermediate container 282 has a great surface suited for articulation thereof of several fourth stage utility modules (only one shown).

[00236] Fig. 17 shows a carrying bag 281 having soft side walls 283 (in the example illustrated made of fabric), however fitted with (integrally or detachable) an articulation platform base 284, said articulation platform made of a firm rigid material and is configured with four male-type coupling locations 288 of the type disclosed hereinabove. The carrying bag 281 has a carrying strap 290 useful for hand held or shoulder carrying of the bag.

[00237] Figure 18A shows 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, and carrying bars 313.

[00238] The coupling platform 300 can be attached for example to a truck bed 306 (Fig. 20), directly over the truck bed or over a cargo container attached to the truck. The coupling platform 300 can be attached to a wall, as in Fig. 18B, wherein a plurality of various utility modules can be articulated thereto. For example, utility modules can be an electric charger 315 of a power tool, a wall mounted sorting container 314, a hand tool rack 318 (Fig. 18C), a tool coupling adaptor 320 (Fig. 18C), etc.

[00239] In Fig. 19 there is illustrated a belt-mount 319 configured as a female coupler according to the disclosure, wherein a tool 321 or a bag/pouch configured with a male coupler can be detachably attached thereto.

[00240] In Fig. 21 there is illustrated a wall rack 326 comprising four utility modules in the form of articulation platforms 328 (mountable at different elevations about the wall supports 327) each configured for bearing and attaching thereto any utility module in accordance with the disclosure.

[00241] In Fig. 22 there is illustrated a mobile work stand 340 comprising a wheeled base 342 supporting two racks 344 with four utility modules in the form of articulation platforms 346 (mountable at different elevations about the wall supports 327) each configured for bearing and attaching thereto any utility module (e.g. containers 348) in accordance with the disclosure.

[00242] In Fig. 23 the utility module is in the form of a dolly 352 configured with wheels 354 and having a top surface configured with an array of female type couplings, as discussed.

[00243] In Fig. 24 there is illustrated a utility coupling platform 358 suited for articulation to any desired article (e.g. a bag, a tool, etc.). The utility coupling platform is configured at least at one face thereof with a male coupling locations 360 mimicking the coupling arrangement of the disclosure, rendering it suitable for articulation with a coupling system according to the disclosure.

WHAT IS CLAIMED IS:

1. A utility module assembly comprising:
a first utility module comprising:
a first female coupler extending from a first face of the first utility module,
the first 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 first male coupler extending from a second face of the second utility
module, the first 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. The utility module assembly of claim 1, wherein the first female coupler and the first
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. The utility module assembly of claim 2, the first female coupler comprising a second rib
that extends above the depressed locking location.
4. 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. 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. 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. The utility module assembly of claim 1, wherein the first male coupler extends from a bottom face of the first utility module, and the first female coupler extends from a top face of the second utility module.

8. 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. The utility module assembly of claim 1, wherein the first utility module comprises a latch recess, and the second utility module comprises a latch received with the latch recess.

10. The utility module assembly of claim 1, wherein the first female coupler comprises a pair of locking ribs including the first rib, the pair of locking ribs extending along a sliding path along which the first female coupler and the first male coupler slide with respect to each other to become engaged.

11. The utility module assembly of claim 10, wherein the 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.

12. The utility module assembly of claim 1, wherein the first utility module comprises a plurality of female couplers including the first female coupler, each of the plurality of female couplers extending from a first face of the first utility module, and each of the plurality of female couplers comprising two sidewalls, a back wall, and a first rib, the back wall extending between

the two sidewalls, the first rib extending above a surface of a depressed locking location.

13. The utility module assembly of claim 1, wherein the second utility module comprises a plurality of male couplers including the first male coupler, each of the plurality of male couplers extending from the second face of the second utility module, each of the plurality of male couplers comprising a tongue configured for arresting engagement between the first rib and the surface of the depressed locking location of the first utility module.

14. A platform for a stackable utility module configured to engage a female coupler on an adjacent utility module comprising:

a first 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 first 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.

15. The platform of claim 14, the first 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.

16. The platform of claim 15, wherein the first locking tongue extends from a front of the first 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 first male coupler a second distance that is more than twice as far as the second locking tongue protrudes from the central body.

17. The platform of claim 14, wherein the platform comprises a plurality of male couplers including the first male coupler, each of the plurality of male couplers comprising at least one locking tongue, the at least one locking tongue configured for arresting engagement with the locking rib of the female coupler.

18. 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. 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. 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.

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation et al.
Title: Utility Assembly and Coupling Mechanism
Appl. No.: To be determined
Filing Date: November 1, 2022
Examiner: To be determined
Art Unit: To be determined
Confirmation No: To be determined

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

PRELIMINARY AMENDMENT UNDER 37 CFR 1.115

Prior to examination of the present application, Applicant respectfully requests that the application be amended as follows:

Amendments to the Claims begin on page 2 of this document.

Remarks begin on page 7 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:

1-20. (Cancelled)

21. (New) A container assembly comprising:

a first container comprising:

a first coupler extending from a top face of the first container, the first coupler comprising two sidewalls, a back wall, and a rib, the back wall located between the two sidewalls, the two sidewalls and the back wall projecting above a depressed surface of the top face, and the rib extending away from the back wall in a first direction;

a lid pivotally attached to the first container; and

a first toggle locking latch configured to latch the lid of the first container in a closed position; and

a second container comprising:

a second coupler extending from the second container, the second coupler comprising a tongue extending in a direction parallel to a bottom face of the second container, the tongue extends in a second direction opposite the first direction, the tongue of the second container is engageable with the rib of the first container such that the tongue engages between the rib and the depressed surface;

a lid pivotally attached to the second container; and

a toggle locking latch configured to latch the lid of the second container in a closed position;

wherein the first and second couplers of the first and second containers engage each other when the first and second containers are slid with respect to each other along a sliding path defined by the rib and the tongue;

a locking latch arresting location defined by one of the first container or the second container; and

a locking latch coupled to the other of the first container or the second container, the locking latch positionable in a locked position engaging the locking latch arresting location thereby limiting sliding displacement of the first container with respect to the second container.

22. (New) The container assembly of claim 21, the second container comprising a front face, a first side face, an opposing second side face, a first corner bumper coupled to the second container between the front face and the first side face, and a second corner bumper coupled to the second container between the front face and the second side face, the first corner bumper defining an outer surface that faces away from each of the front face and the first side face, and the second corner bumper defining an outer surface that faces away from each of the front face and the second side face.

23. (New) The container assembly of claim 21, wherein the sliding path is perpendicular to the locking latch.

24. (New) The container assembly of claim 21, wherein the locking latch is spring biased to engage with the locking latch arresting location.

25. (New) The container assembly of claim 21, wherein a width of the second container is half of a width of the first container, and the second container is located on top of the first container.

26. (New) The container assembly of claim 21, wherein the first container further comprises a handle coupled to a front face of the first container and a second toggle locking latch configured to latch the lid of the first container in a closed position, wherein the handle is located between the first and second toggle locking latches of the first container.

27. (New) The container assembly of claim 21, wherein the second coupler of the second container extends from the bottom face of the second container such that the tongue is offset

from at least a portion of the bottom face of the second container and wherein the rib engages between the tongue and the bottom face of the second container.

28. (New) The container assembly of claim 21, wherein the first container defines a width axis parallel to a front face of the first container and the second container defines a length axis perpendicular to a front face of the second container, wherein the width axis of the first container is perpendicular to the length axis of the second container when the second container is coupled on top of the first container.

29. (New) The container assembly of claim 21, wherein the first container further comprises a pair of rear wheels and a telescoping handle extending upwards from a rear wall of the first container.

30. (New) A container assembly comprising:

a first container comprising:

a lid pivotally attached to the first container;

a front face;

a first side face;

a second side face opposite the first side face;

a first corner protector coupled to the first container between the front face and the first side face;

a second corner protector coupled to the first container between the front face and the second side face;

a first coupler located on the lid of the first container; and

a first toggle locking latch coupled to the front face and configured to latch the lid of the first container in a closed position; and

a second container comprising:

a second coupler extending from the second container, wherein the first and second couplers of the first and second containers engage each other when the second container is stacked on top of the first container;

a lid pivotally attached to the second container; and

a toggle locking latch configured to latch the lid of the second container in a closed position;

a locking latch arresting location defined by one of the first container or the second container; and

a locking latch coupled to the other of the first container or the second container, the locking latch positionable in a locked position engaging the locking latch arresting location thereby limiting decoupling of the second container from the first container when the second container is stacked on top of the first container.

31. (New) The container assembly of claim 30, wherein the second container comprises a front face, a first side face, an opposing second side face, a first corner protector coupled to the second container between the front face and the first side face, and a second corner protector coupled to the second container between the front face and the second side face.

32. (New) The container assembly of claim 30, wherein the first container further comprises a pair of rear wheels each located on rear corners opposite of the first and second corner protectors of the first container and a telescoping handle extending upwards from a rear wall of the first container.

33. (New) The container assembly of claim 30, wherein the first container further comprises a handle coupled to a front face of the first container and a second toggle locking latch configured to latch the lid of the first container in a closed position, wherein the handle is located between the first and second toggle locking latches of the first container, and the handle, the first toggle locking latch and the second toggle locking latch are located along the front face between the first and second corner protectors.

34. (New) The container assembly of claim 30, wherein the first container further comprises a first gap located between the first corner protector and a body of the first container and a second gap located between the second corner protector and the body of the first container such that first and second corner protectors act as corner carrying handles.

REMARKS

Applicant respectfully requests that the foregoing amendments to the claims be made prior to examination of the present application. Support for new claims 21-29 can generally be found throughout the specification and figures, and specific exemplary support can be found at least in paragraphs [00197] to [00198], [00209], [00211] to [00212], [00215] to [00224], [00229], [00230], and [00234] to [00235], and FIGS. 1A, 1B, 6A-6D, 7A, 7B, 11A, 13A, 13C, and 16B. No new matter has been added with this amendment.

Applicant believes that the present application is in condition for allowance. Favorable consideration of the application as amended 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.

Although Applicant believes that no additional 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 November 1, 2022

By /Derek H. Campbell/

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Application Data Sheet

Application Information

Application Number:	To Be Determined
Application Type:	Nonprovisional
Subject Matter:	Utility
CD-ROM or CD-R:	None
Computer Readable Form (CRF):	No
Title:	Utility Assembly and Coupling Mechanism
Attorney Docket Number:	066749-3677
Request for Early Publication:	No
Request for Non-Publication:	No
Suggested Drawing Figure:	1A
Total Drawing Sheets:	48
Small Entity:	No
Petition included:	No
Secrecy Order in Parent Appl.:	No

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Domestic Priority Information

Application:	Continuity Type:	Prior Application No.:	Parent Filing Date:	Prior Application Status:	Patent No.:

This Application	Is a continuation of	17/884,230	August 9, 2022	Pending	N/A
17/884,230	Is a continuation of	17/064,371	October 6, 2020	Patented	11,427,382
17/064,371	Is a continuation of	16/752,441	January 24, 2020	Patented	11,008,136
16/752,441	Is a continuation of	16/216,724	December 11, 2018	Patented	10,583,962
16/216,724	Is a continuation of	15/826,232	November 29, 2017	Patented	10,703,534
15/826,232	Is a continuation of	PCT/IL2017/050481	April 30, 2017	Expired	N/A
PCT/IL2017/050481	Claims the benefit under 35 U.S.C. 119(e)	62/459,076	February 15, 2017	Expired	N/A
PCT/IL2017/050481	Claims the benefit under 35 U.S.C. 119(e)	62/330,334	May 2, 2016	Expired	N/A

Foreign Priority Information

Country:	Application number:	Filing Date:	Priority Claimed:

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from

the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

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

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

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

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

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

Applicant Information

Applicant 1:

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If the Assignee is an Organization check here ☒			

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Applicant 2:

☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Person to whom the inventor is obligated to assign	☐ Person who shows sufficient proprietary interest
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
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Signature:	/Derek H. Campbell/	Date:	November 1, 2022
First Name:	Derek H.	Last Name:	Campbell
Registration No.:	70,608		

SCORE Placeholder Sheet for IFW Content

Application Number: 18051749

Document Date: 11/01/2022

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

- Drawing

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