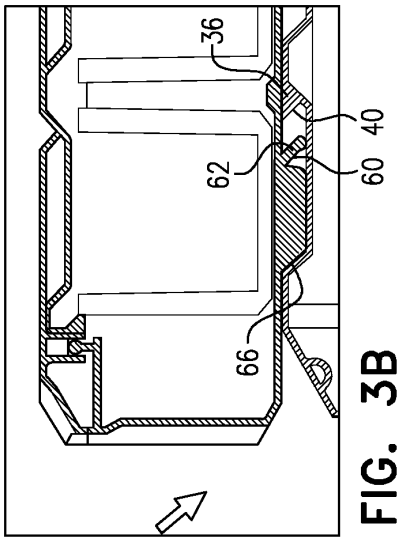


FIG. 3B

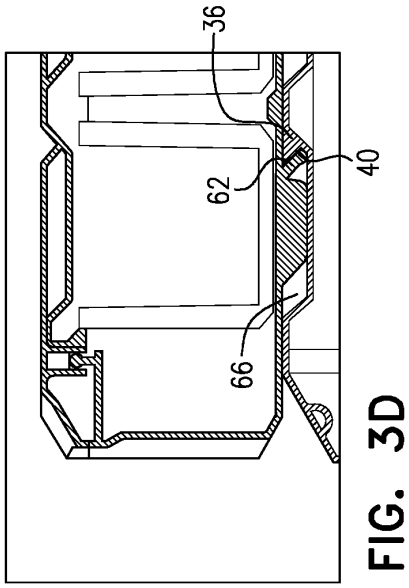


FIG. 3D

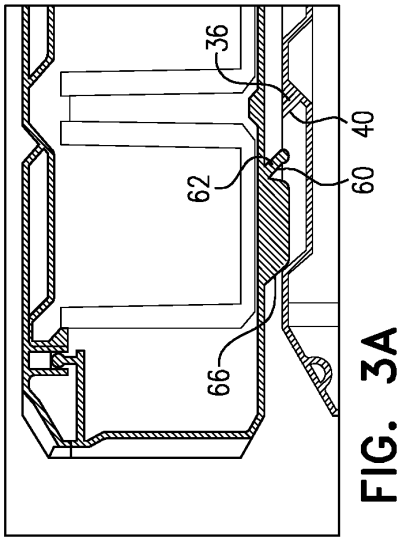


FIG. 3A

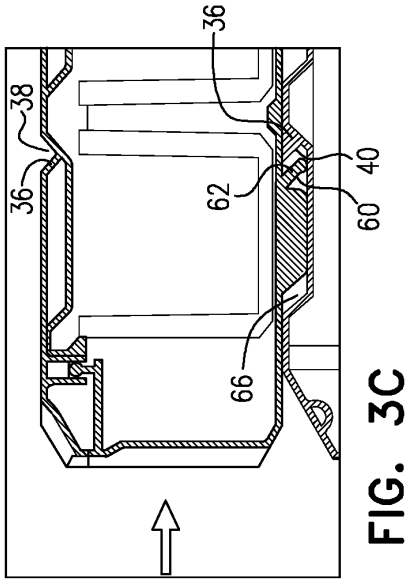


FIG. 3C

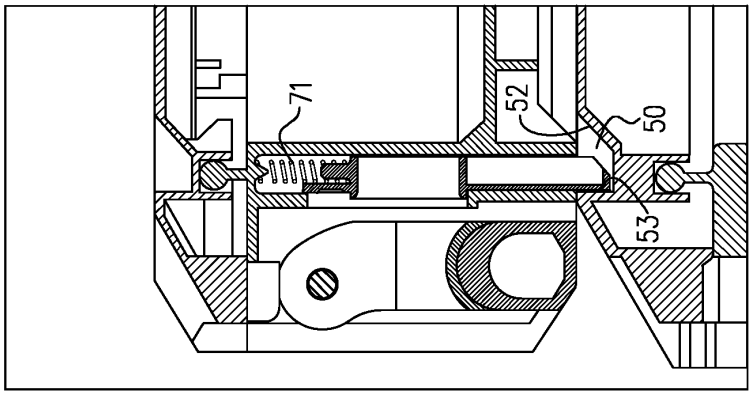


FIG. 4D

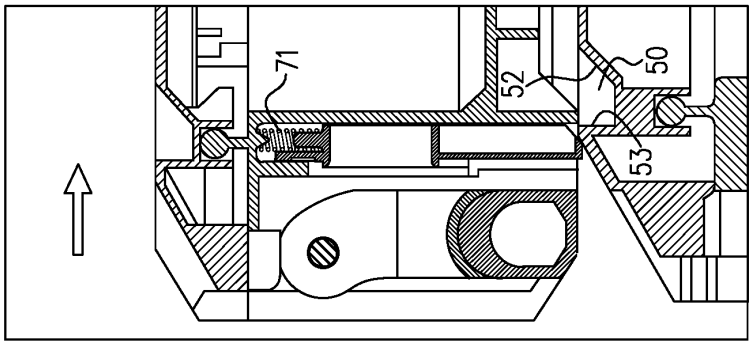


FIG. 4C

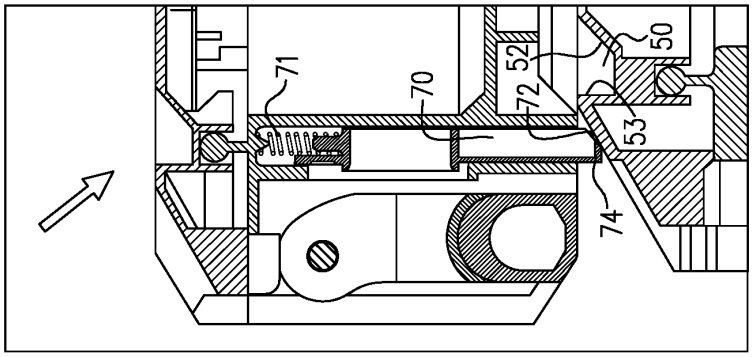


FIG. 4B

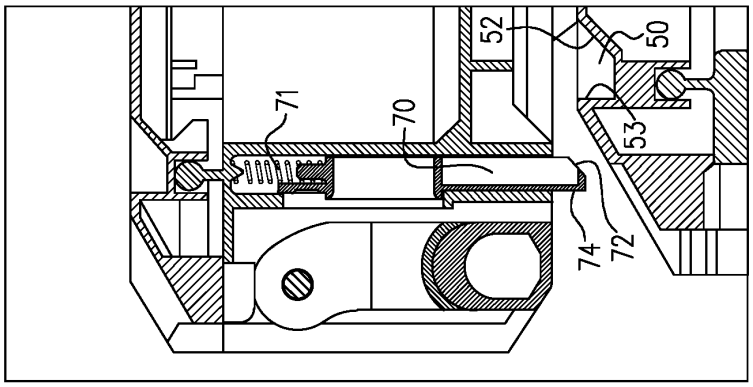


FIG. 4A

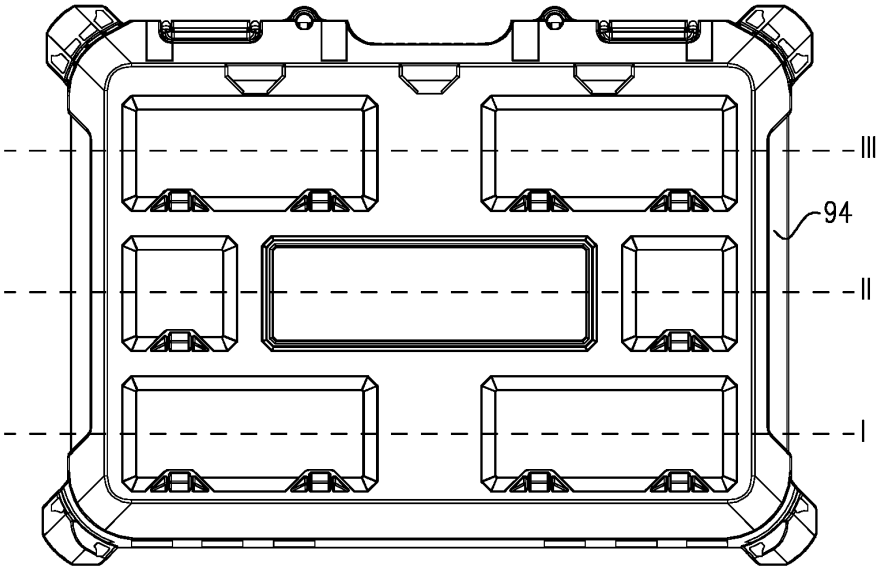


FIG. 5A

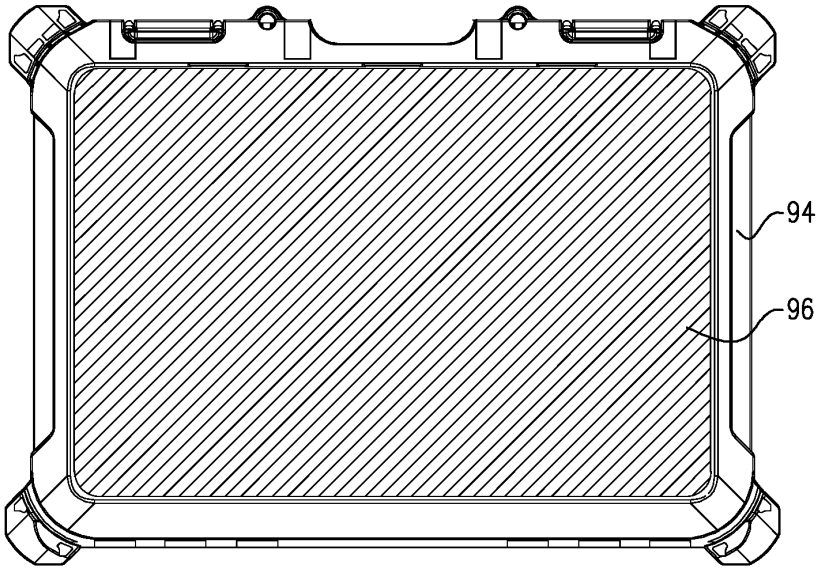


FIG. 5B

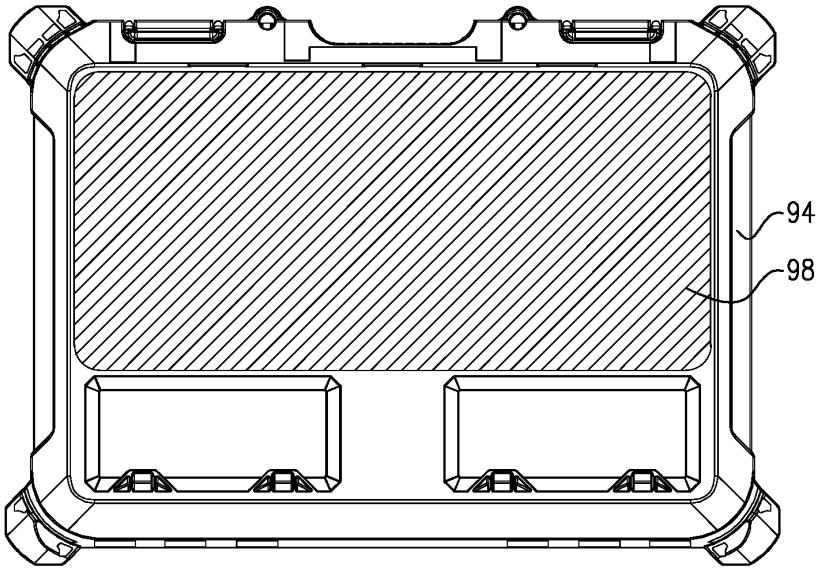


FIG. 5C

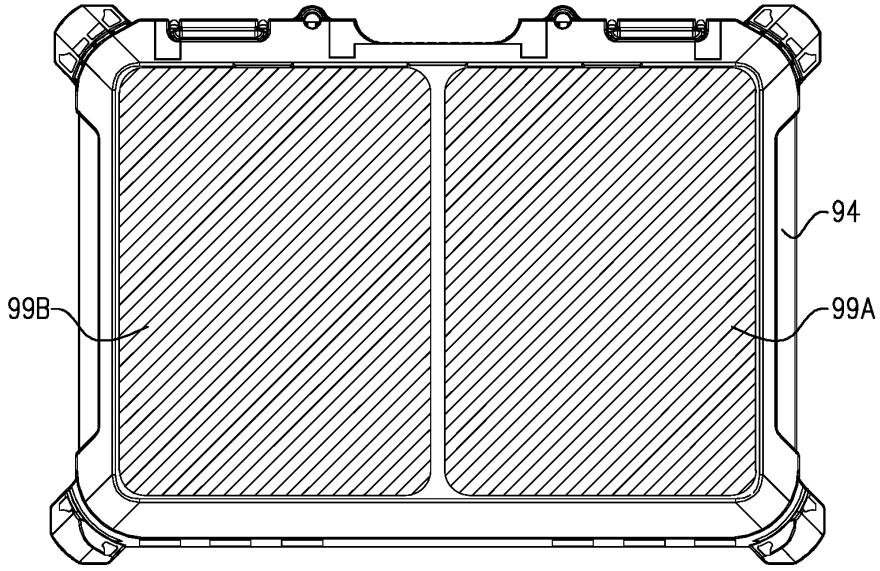


FIG. 5D

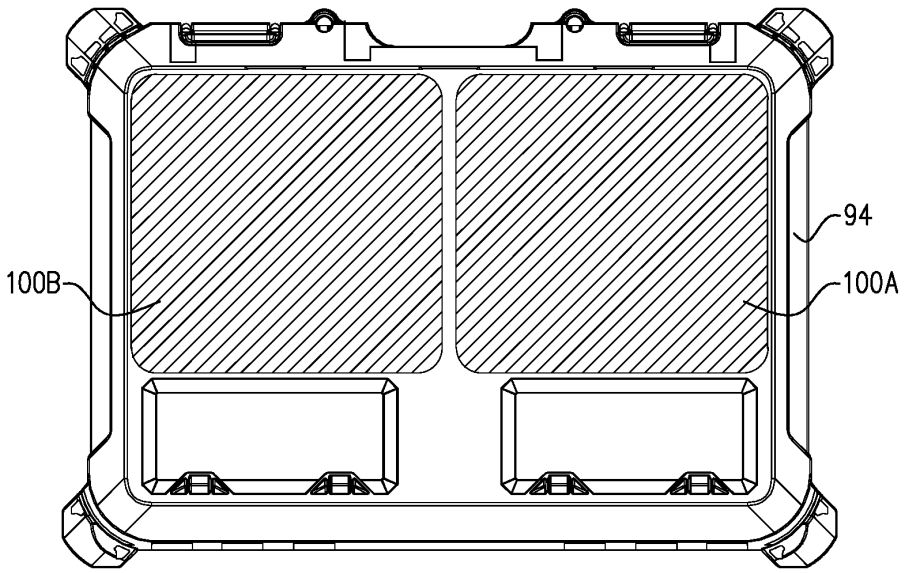


FIG. 5E

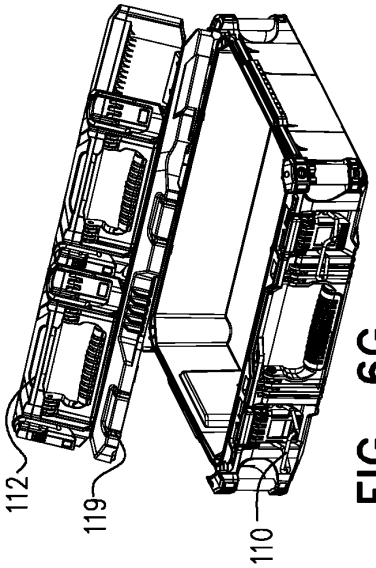


FIG. 6G

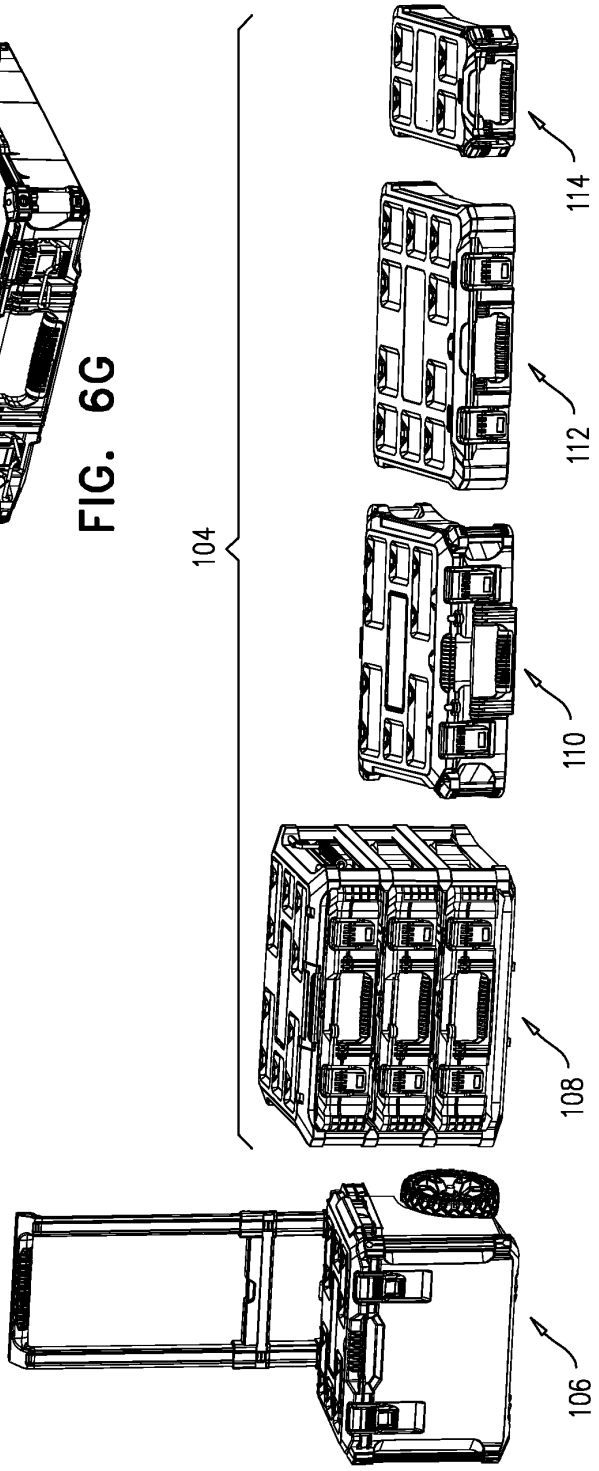


FIG. 6A

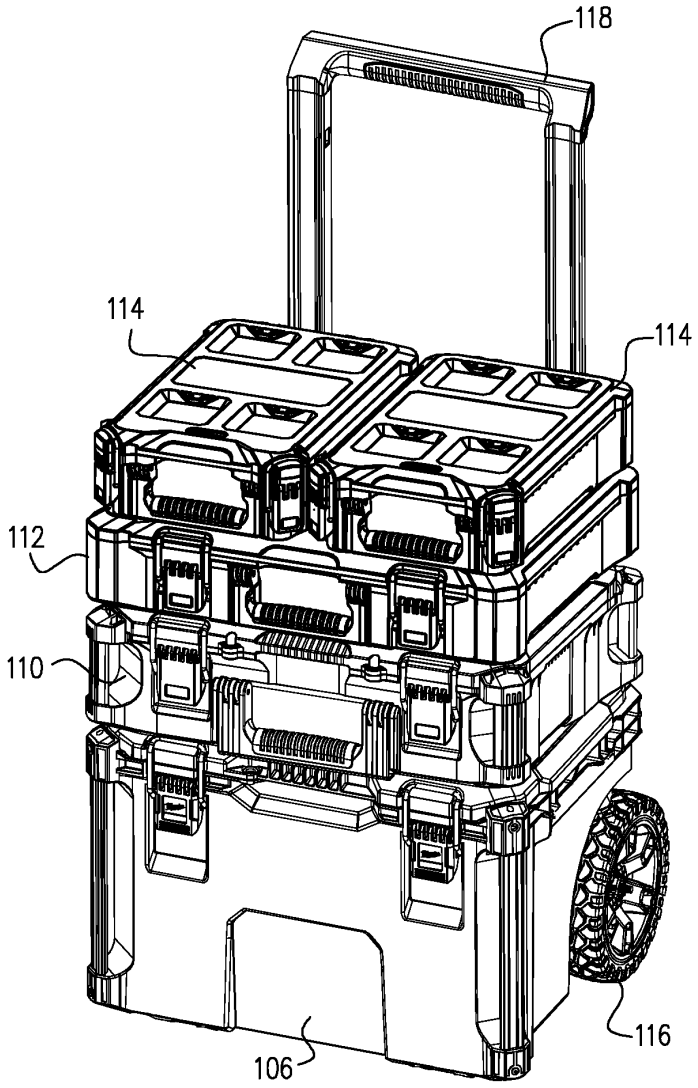


FIG. 6B

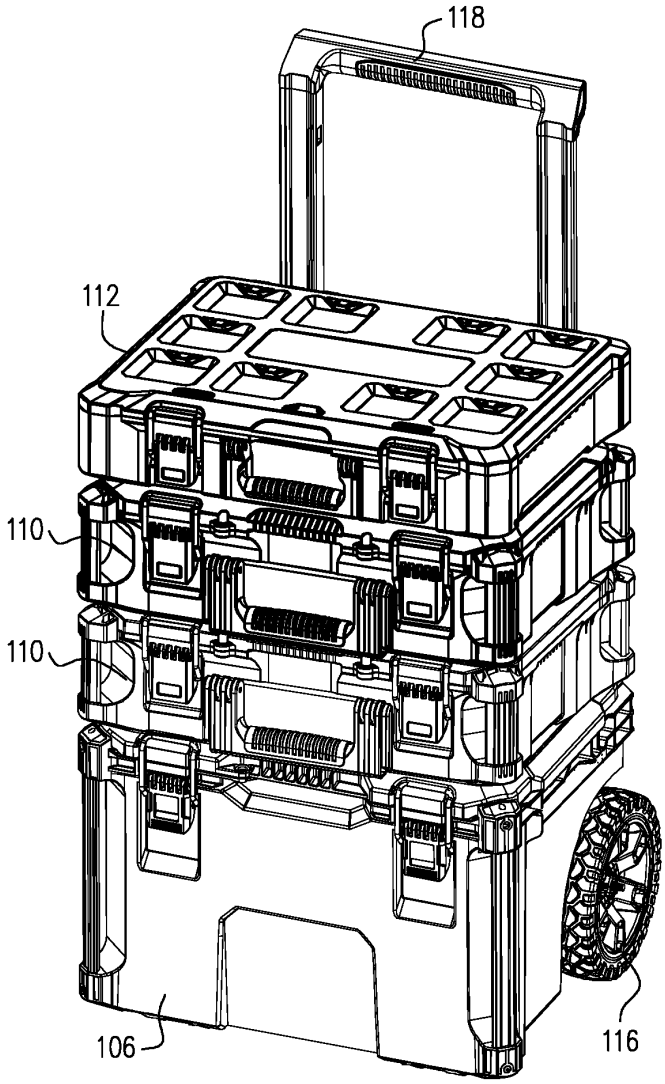


FIG. 6C

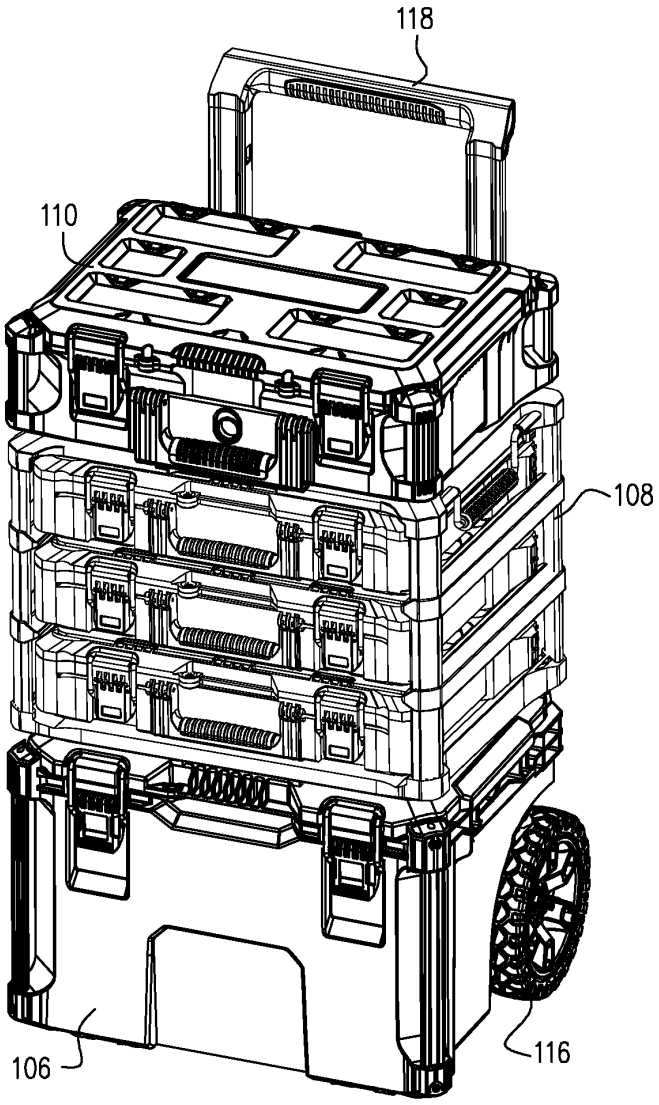


FIG. 6D

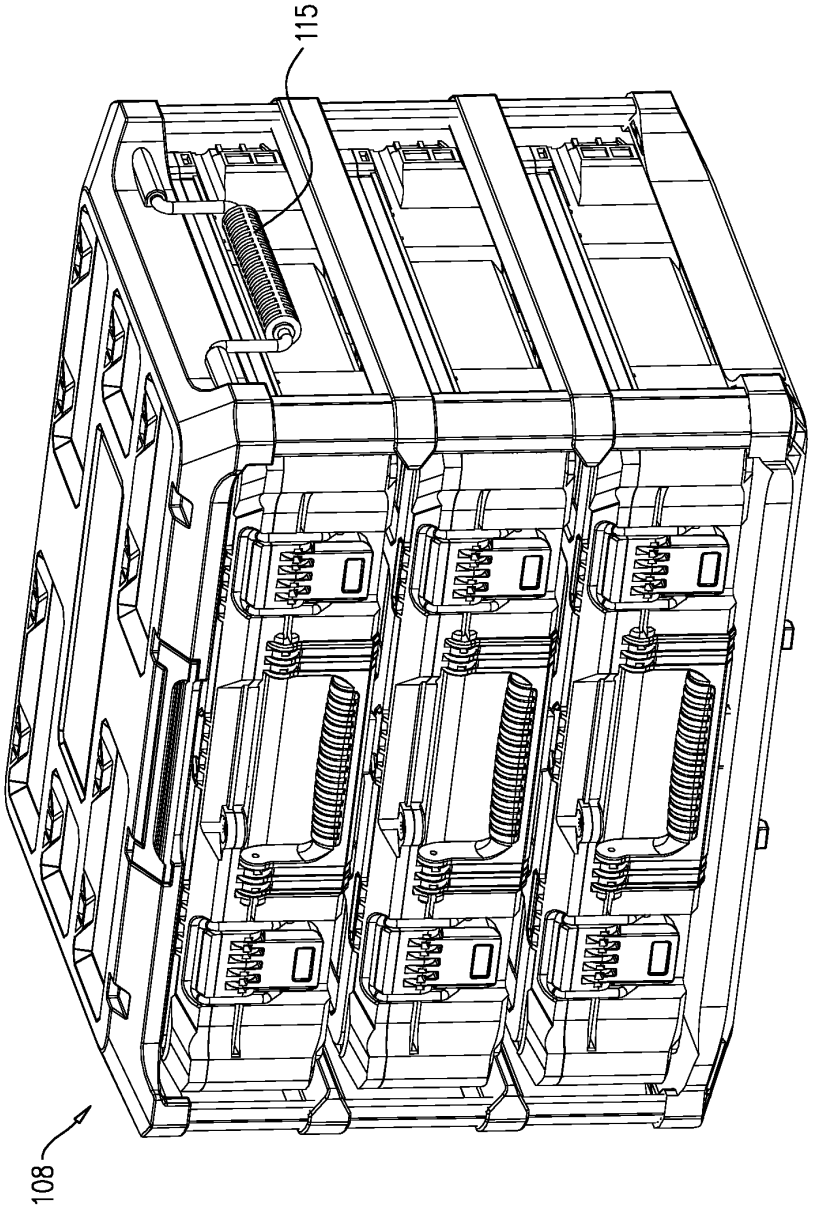


FIG. 6E

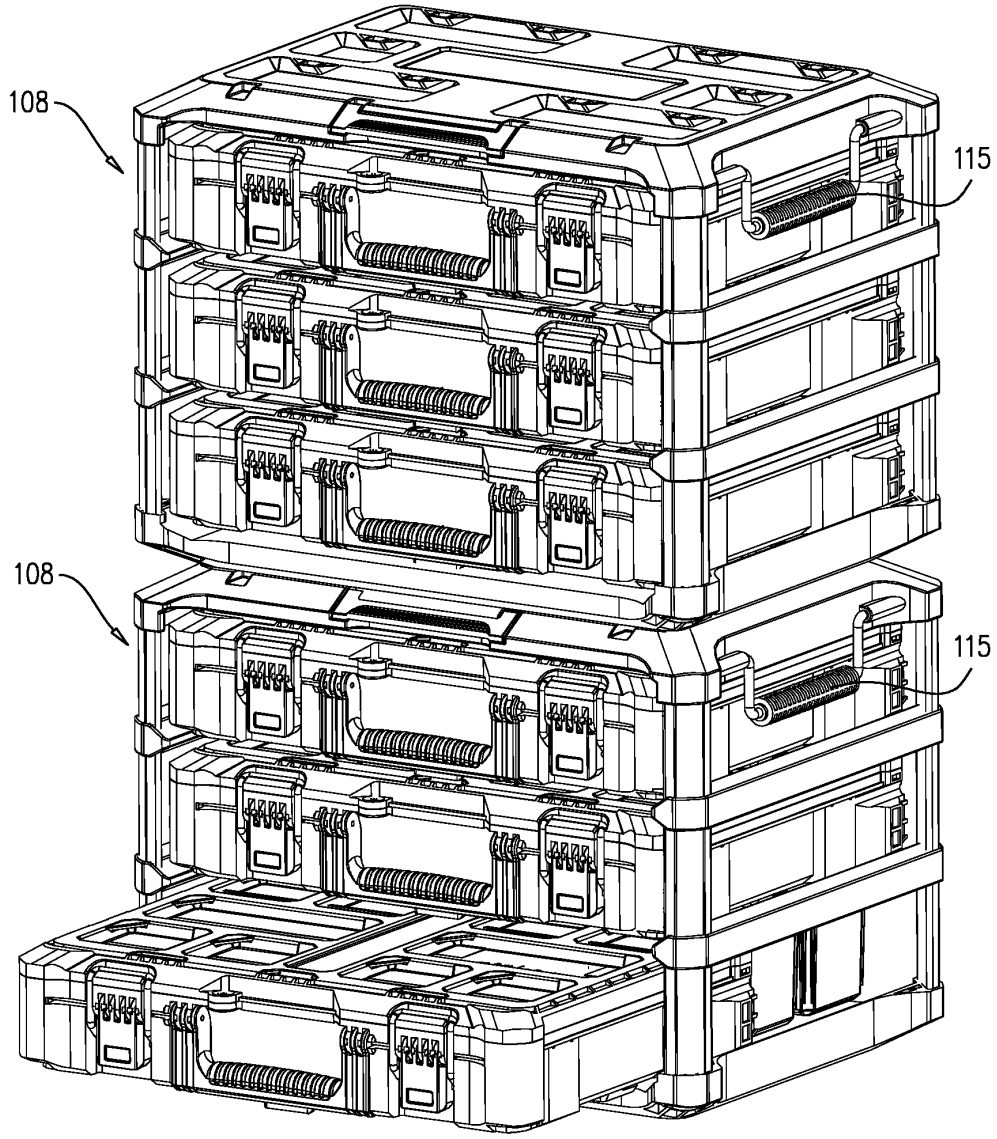


FIG. 6F

REPLACEMENT SHEET

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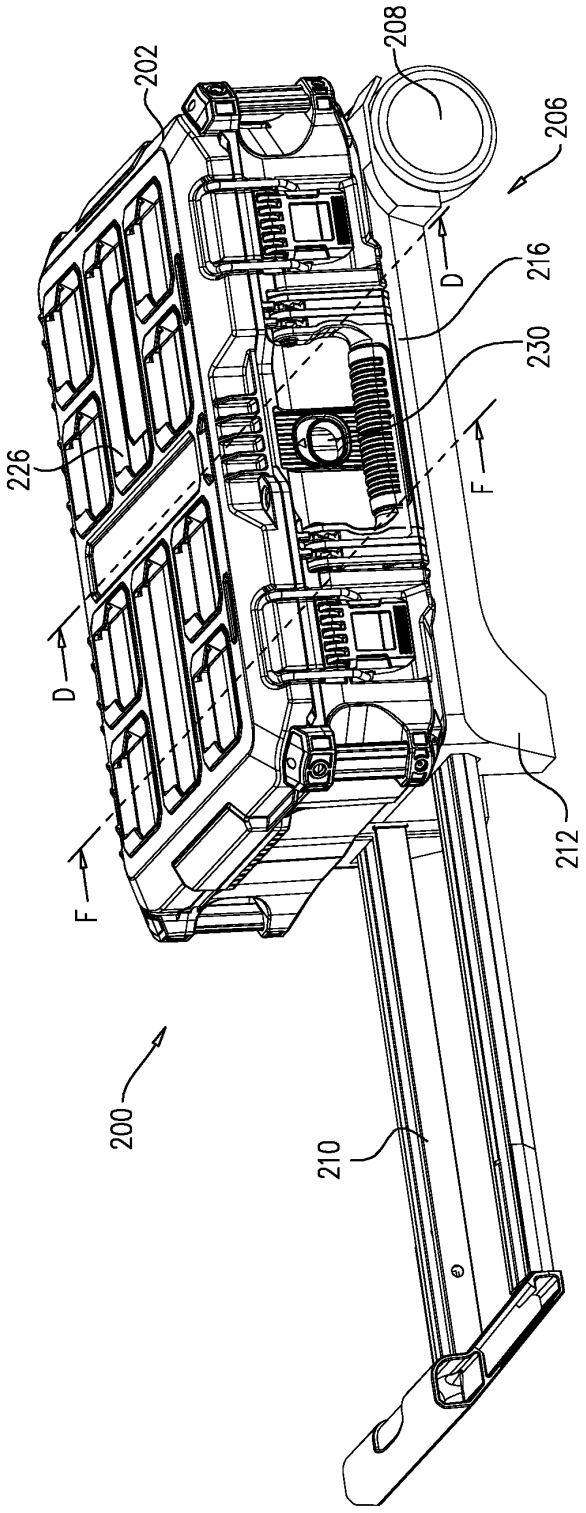


FIG. 7A

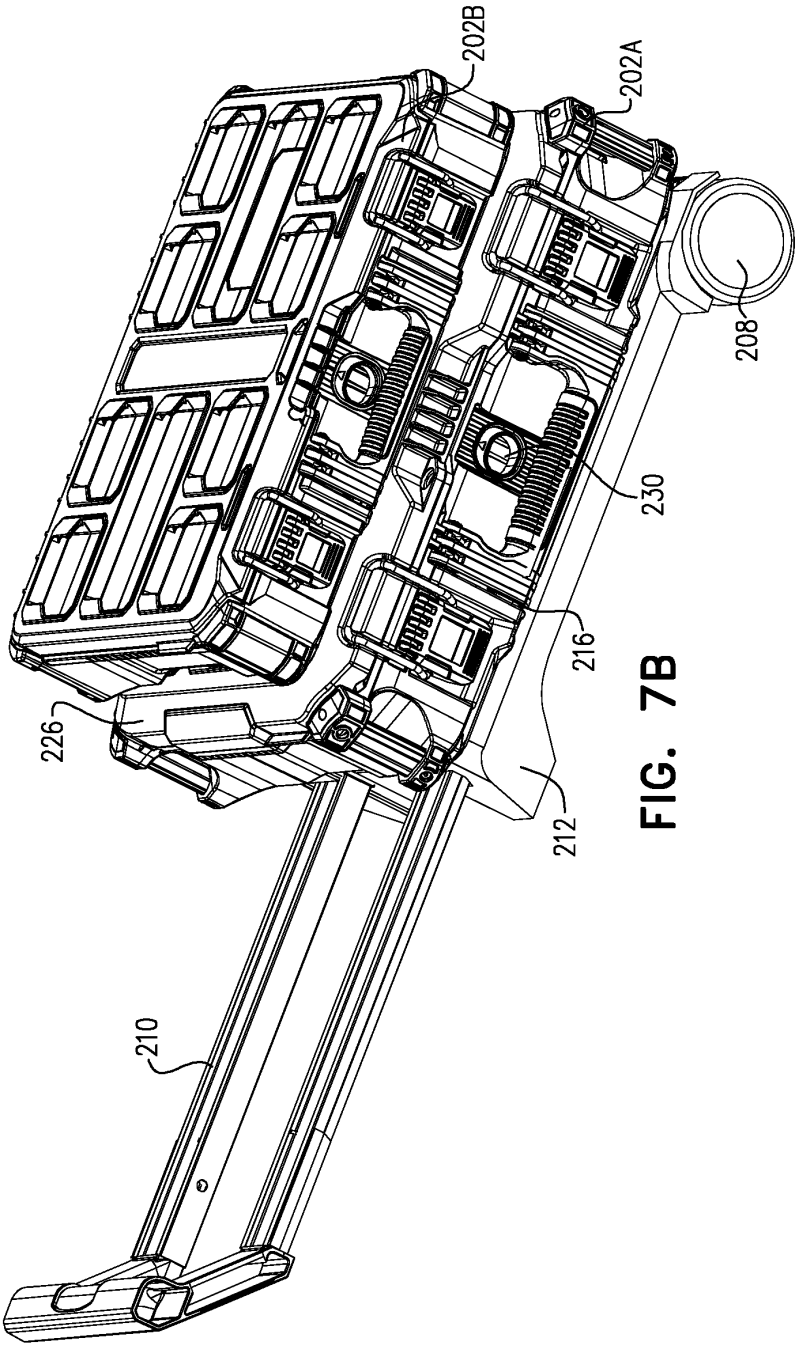


FIG. 7B

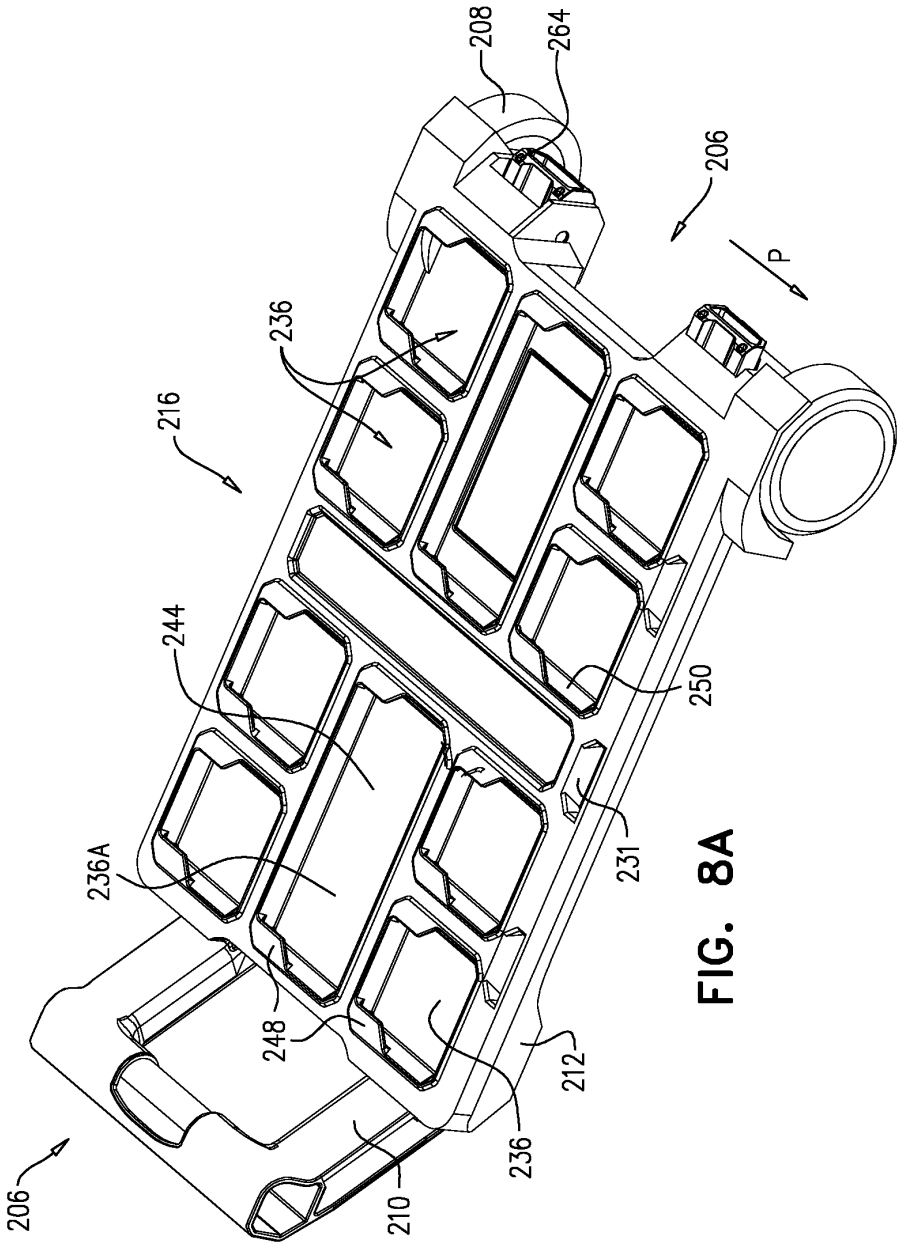


FIG. 8A

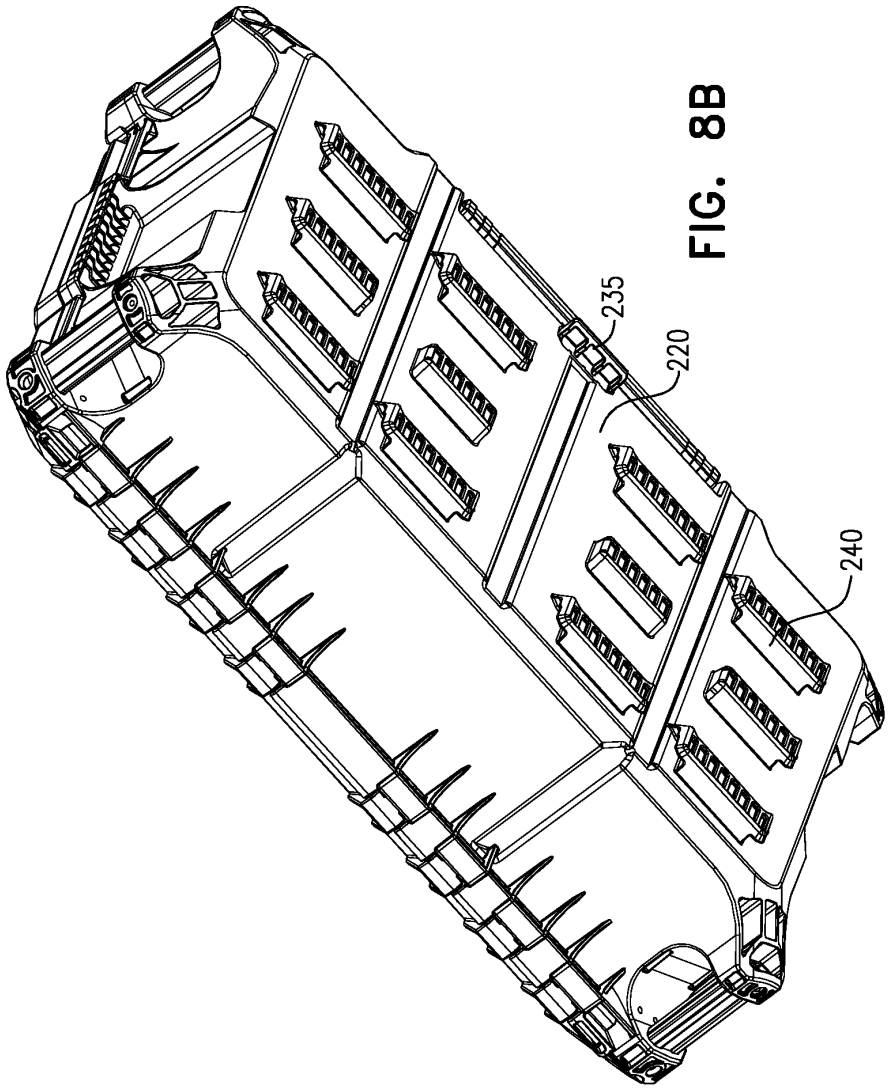


FIG. 8B

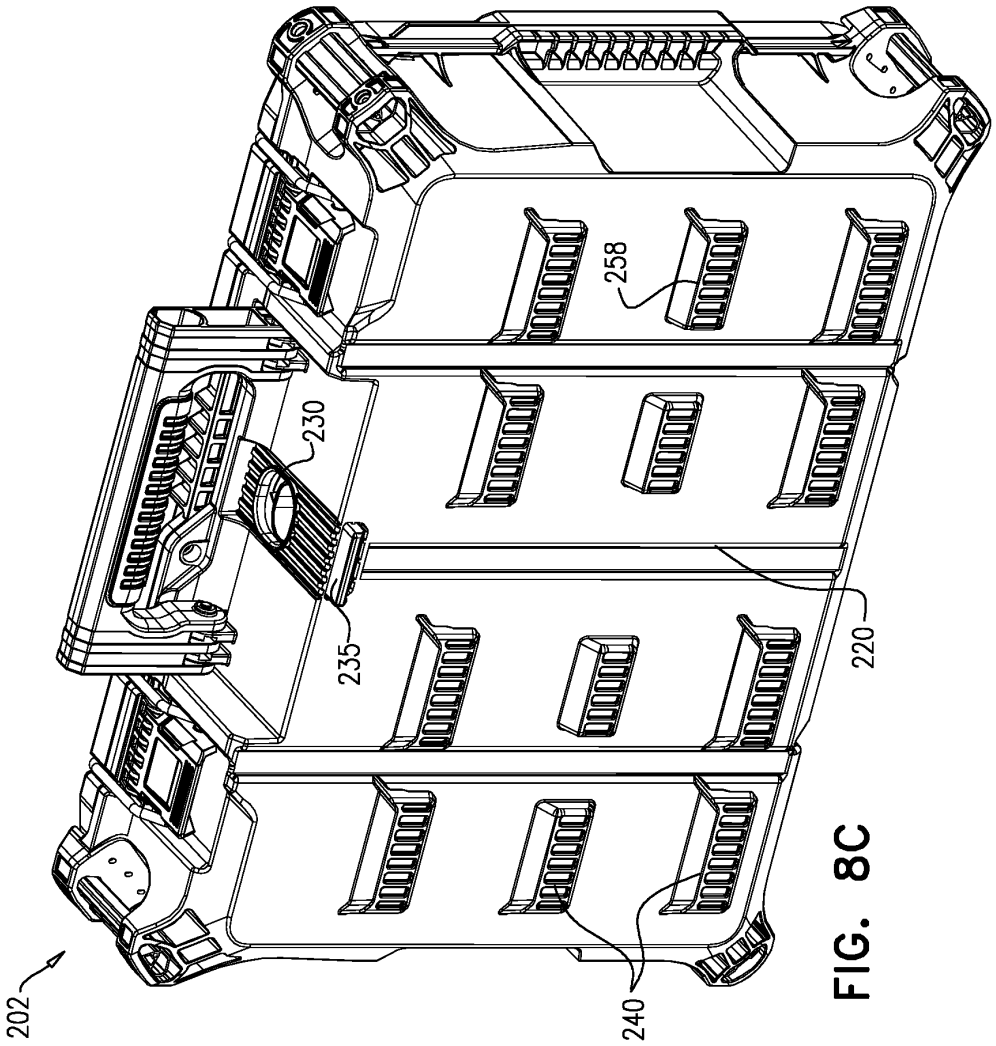


FIG. 8C

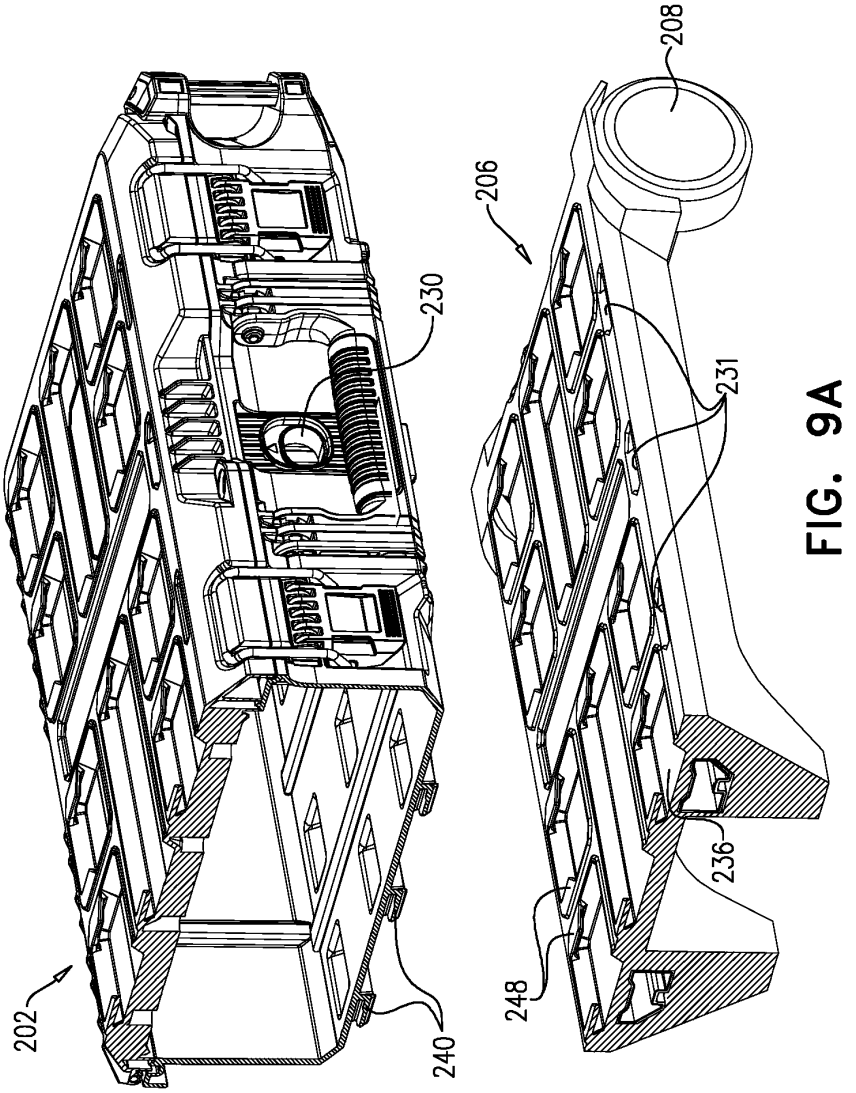


FIG. 9A

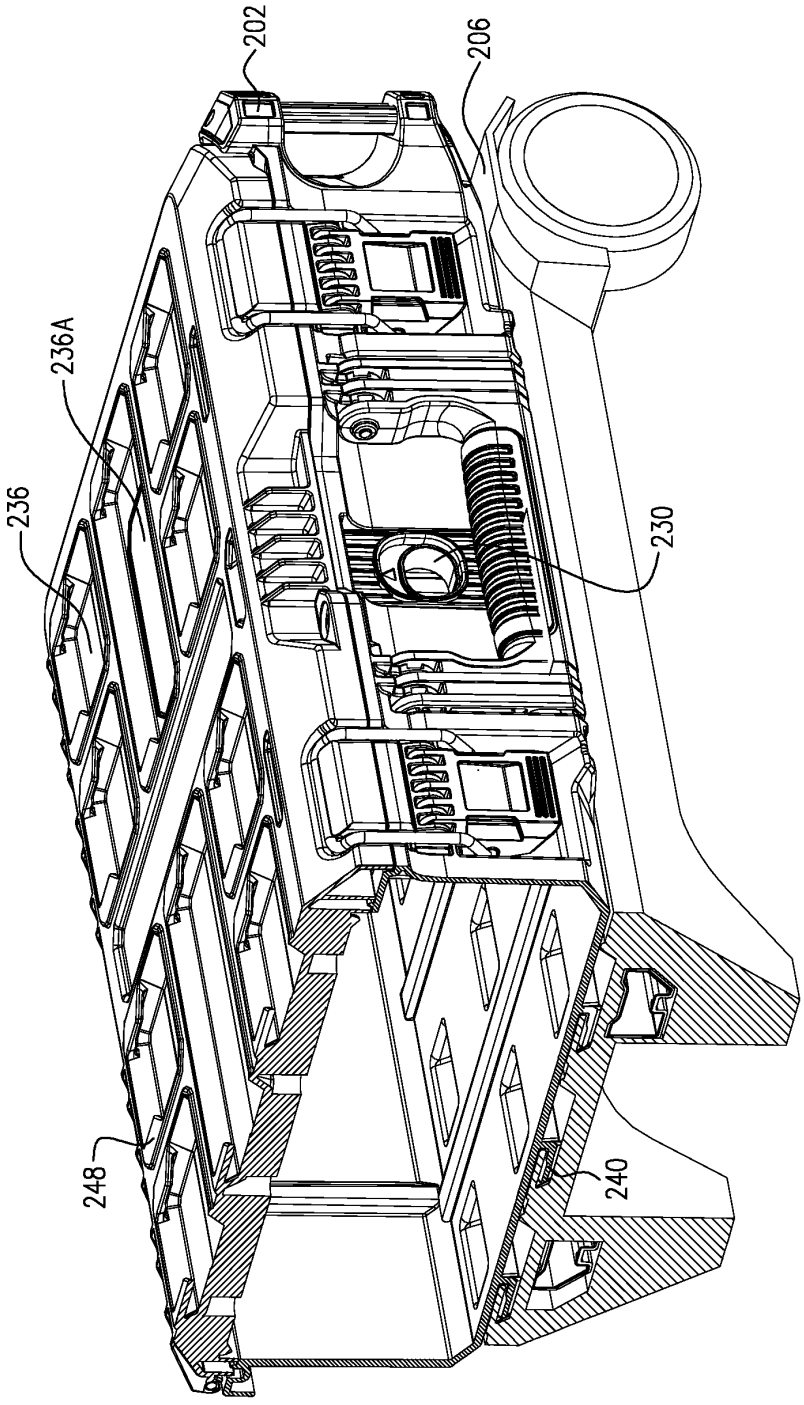


FIG. 9B

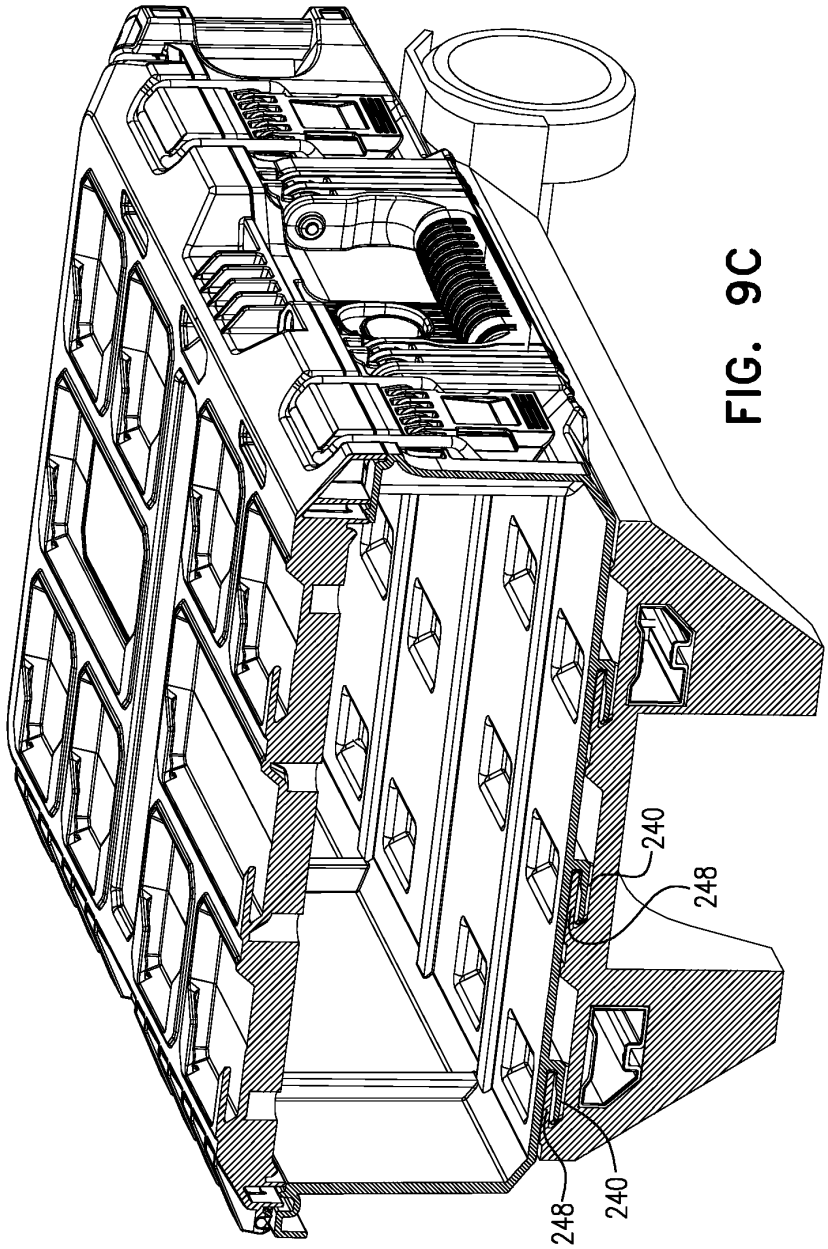


FIG. 9C

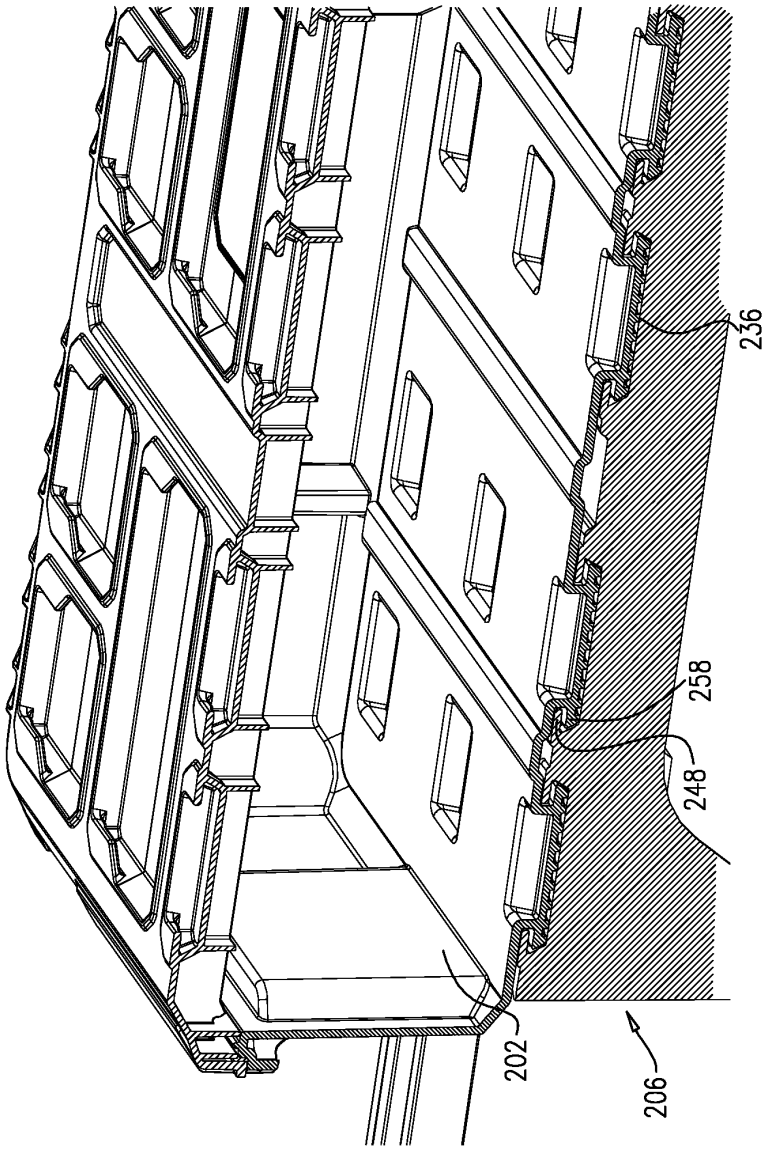


FIG. 9D

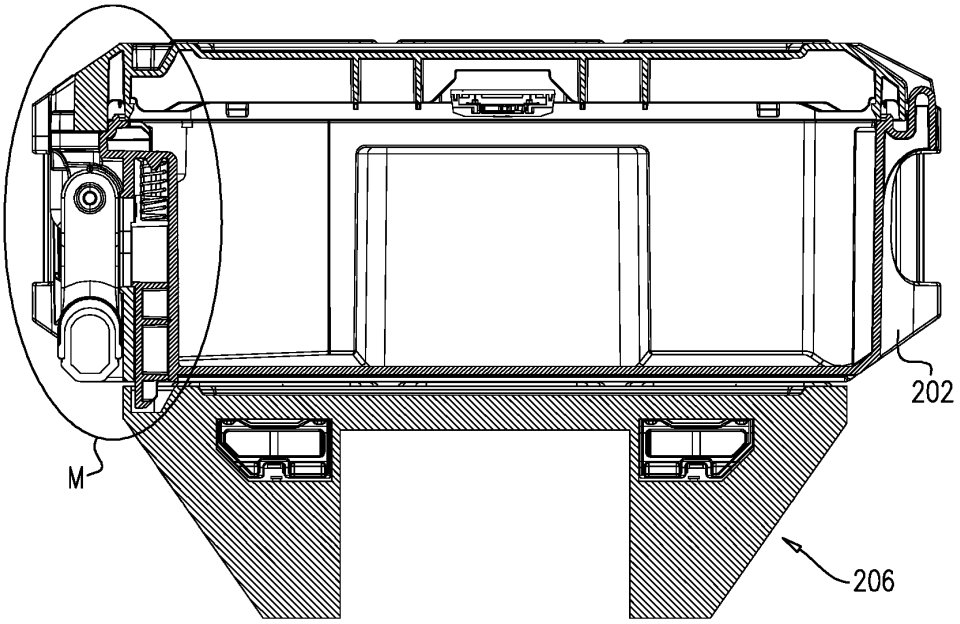


FIG. 10A

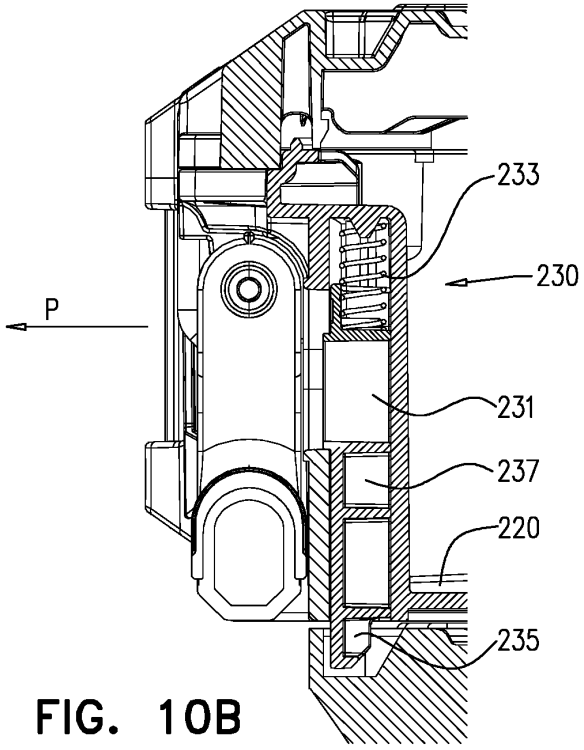


FIG. 10B

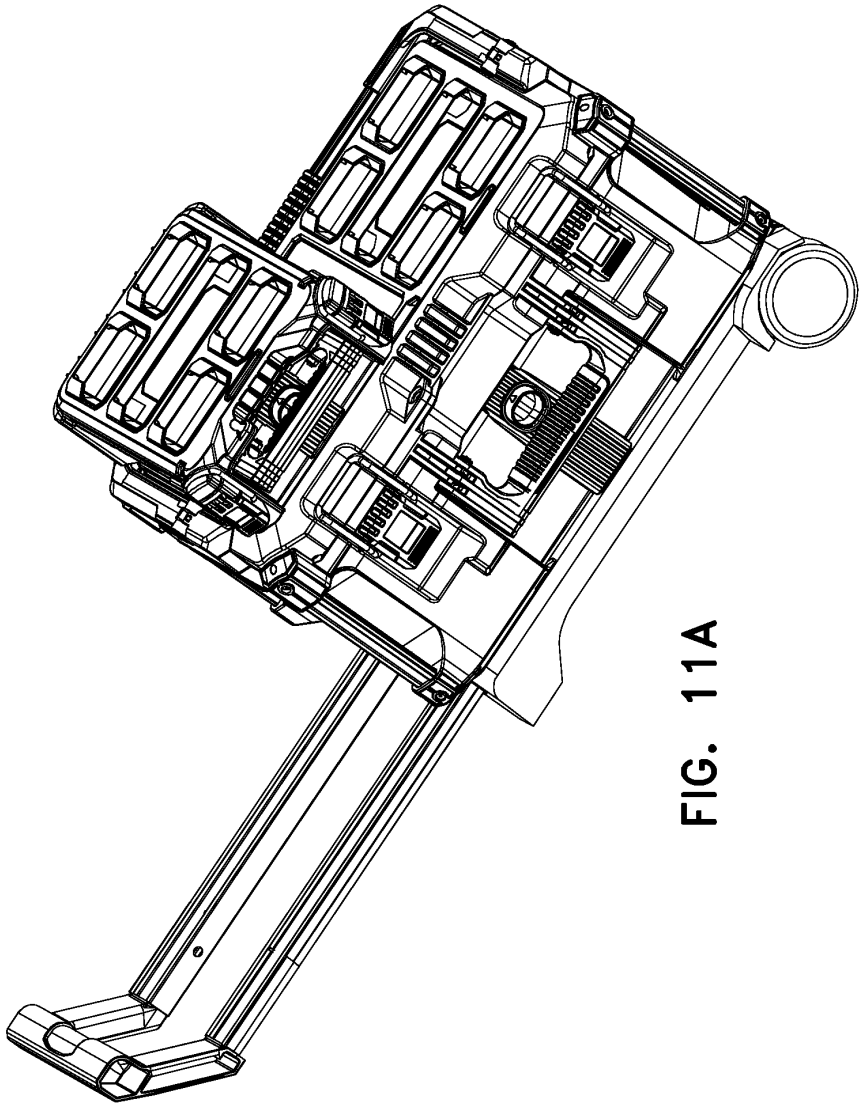


FIG. 11A

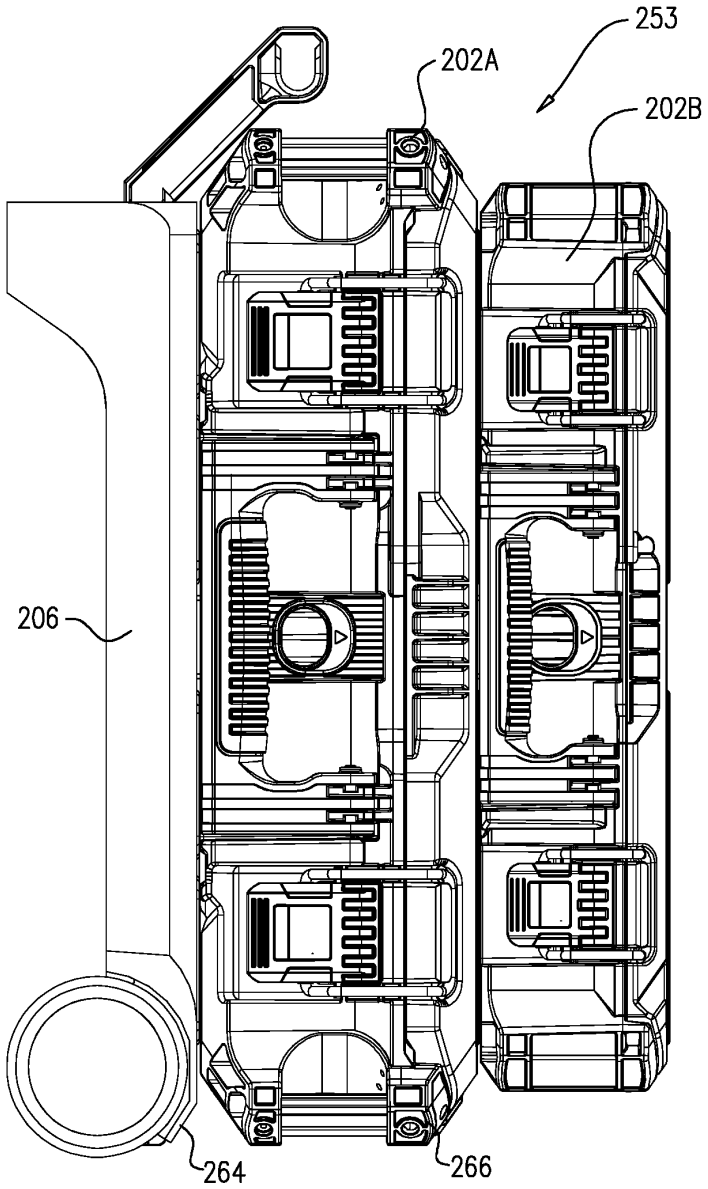


FIG. 11B

REPLACEMENT SHEET

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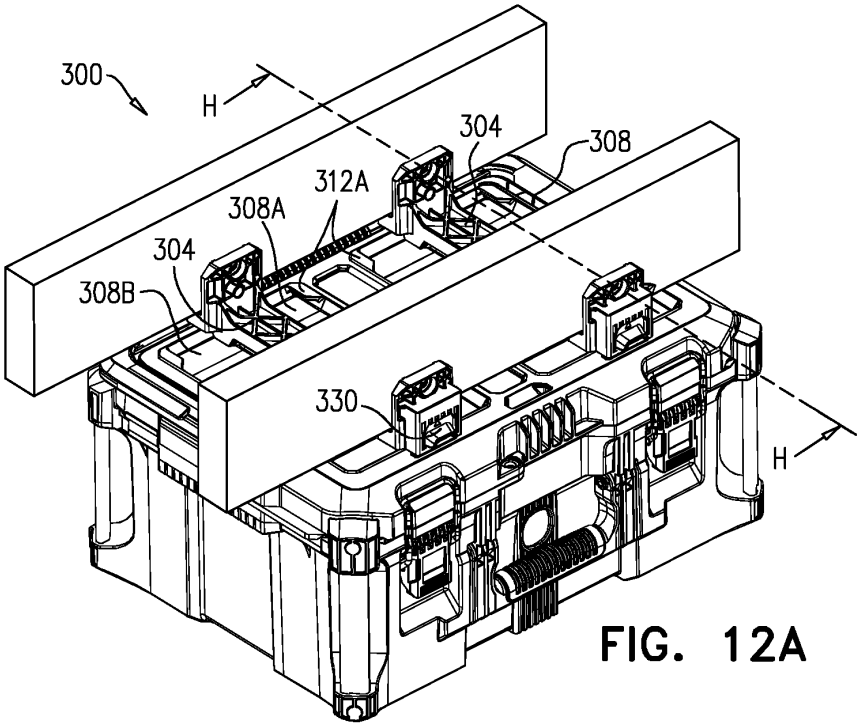


FIG. 12A

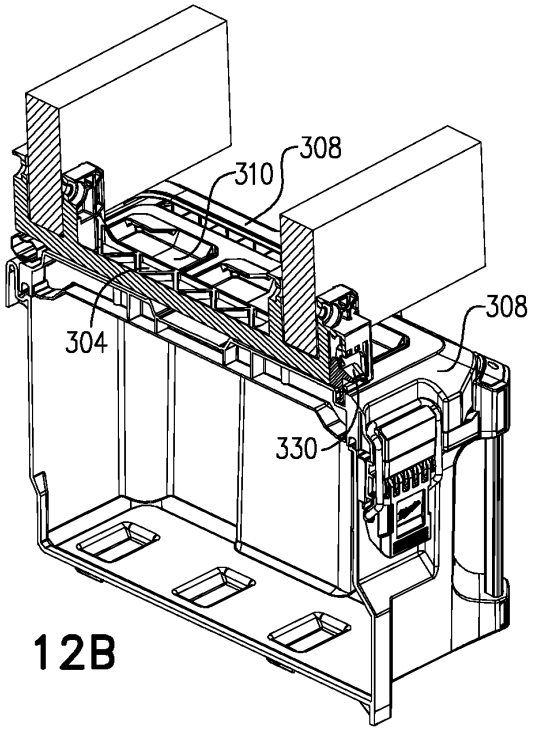
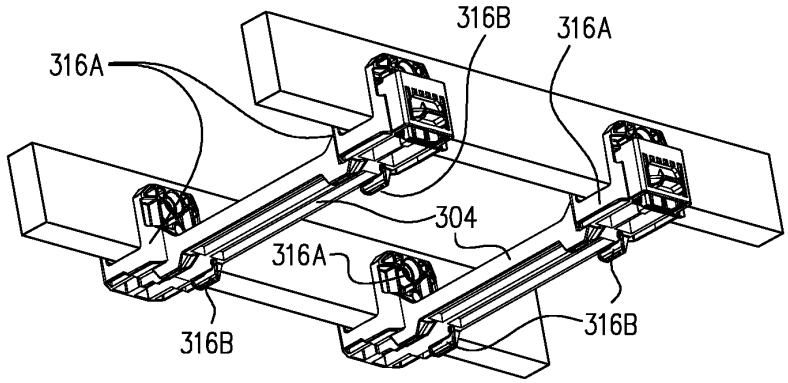


FIG. 12B


316B
316A
316A
304
316A
316B
316B

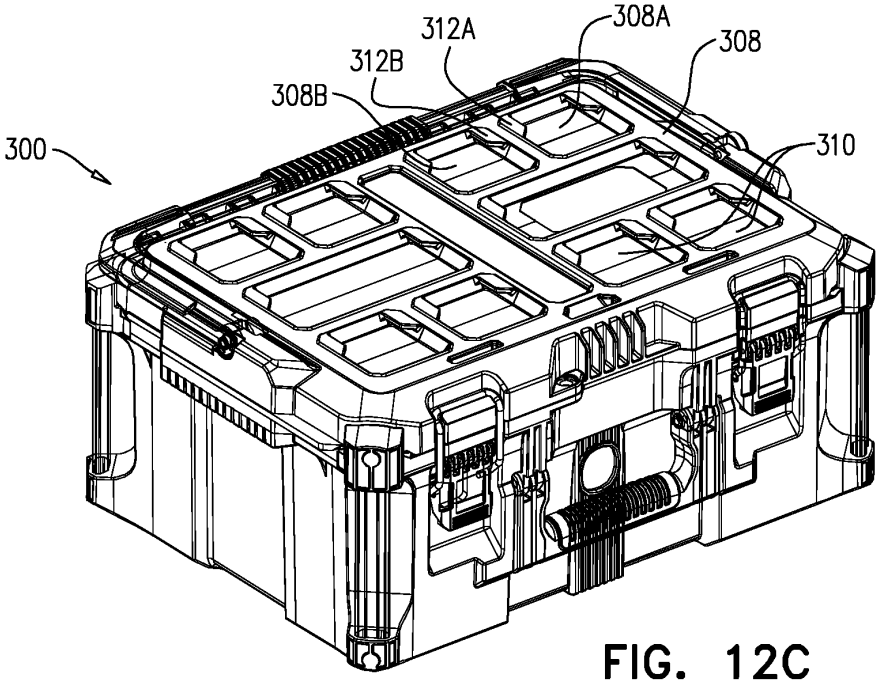

312A
308A
312B
308
308B
300
310

FIG. 12C

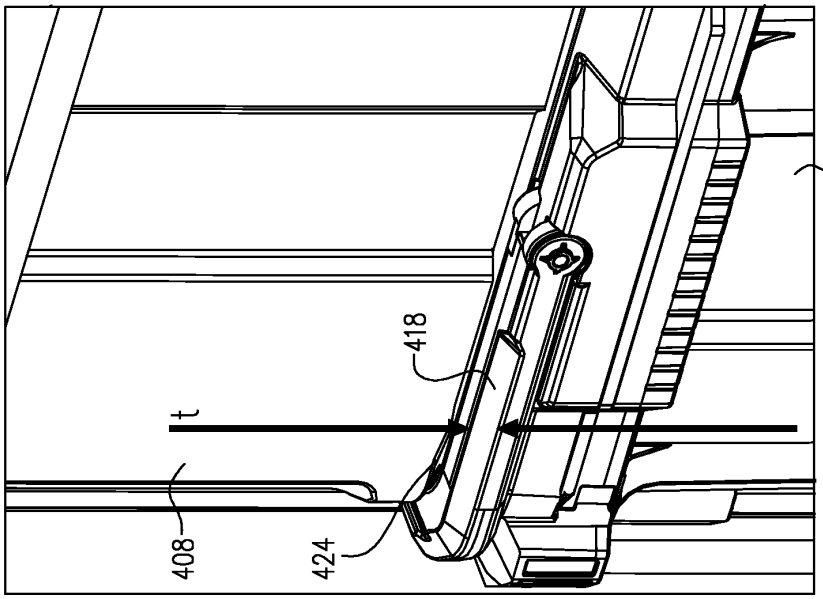


FIG. 13B

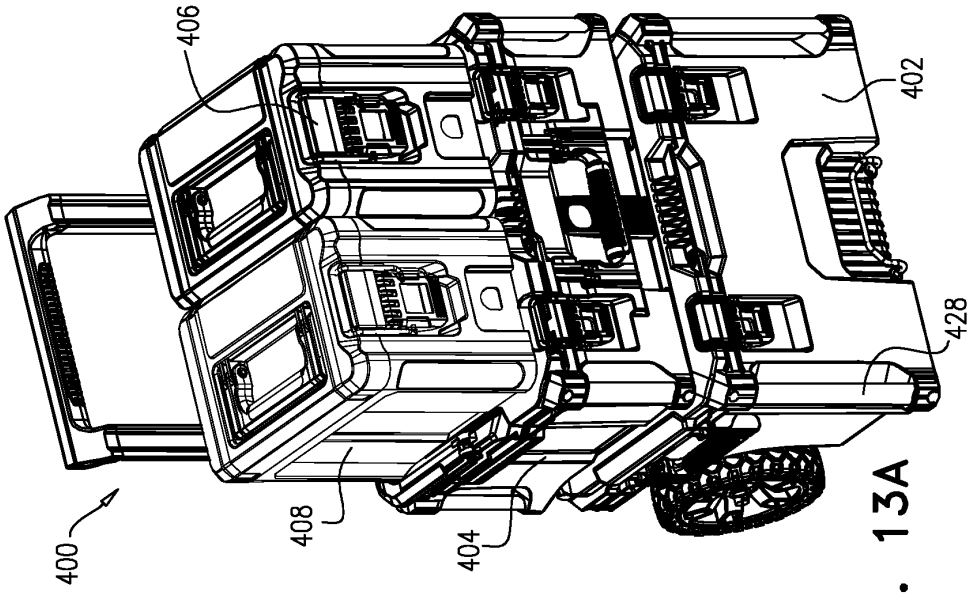


FIG. 13A

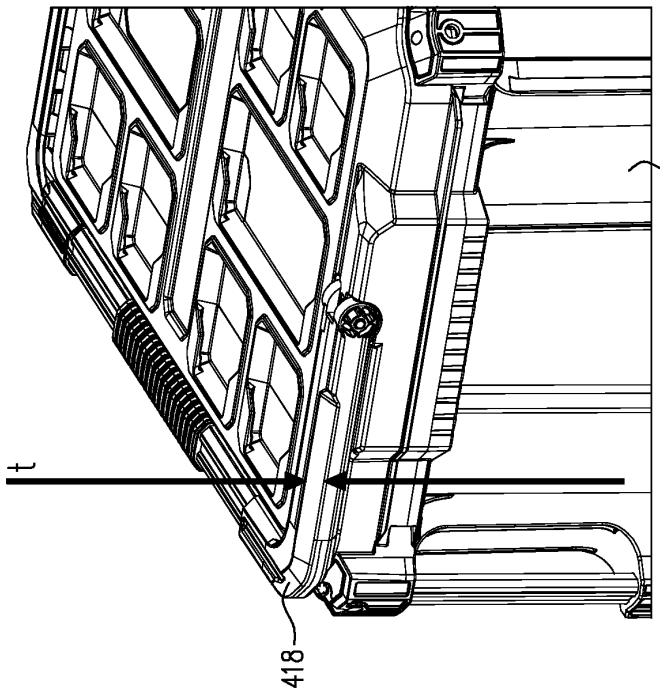


FIG. 13D

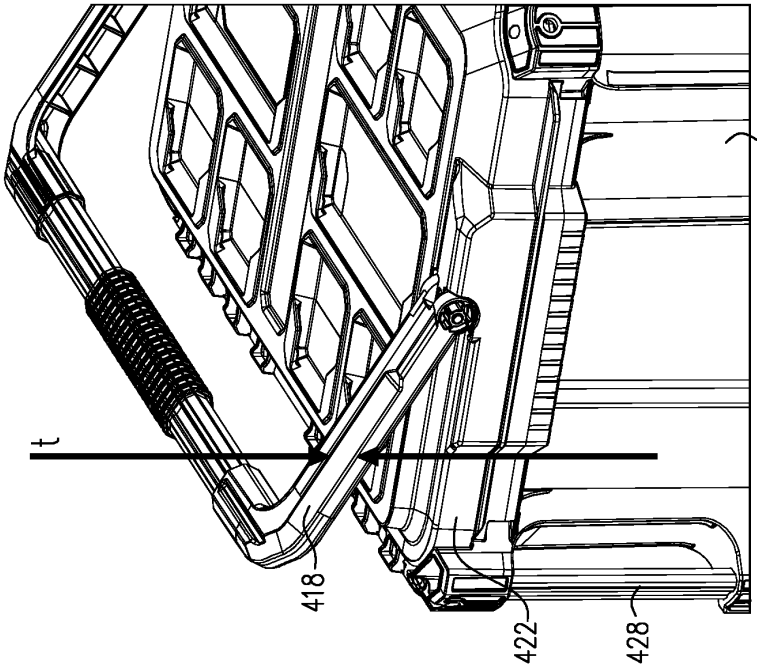


FIG. 13C

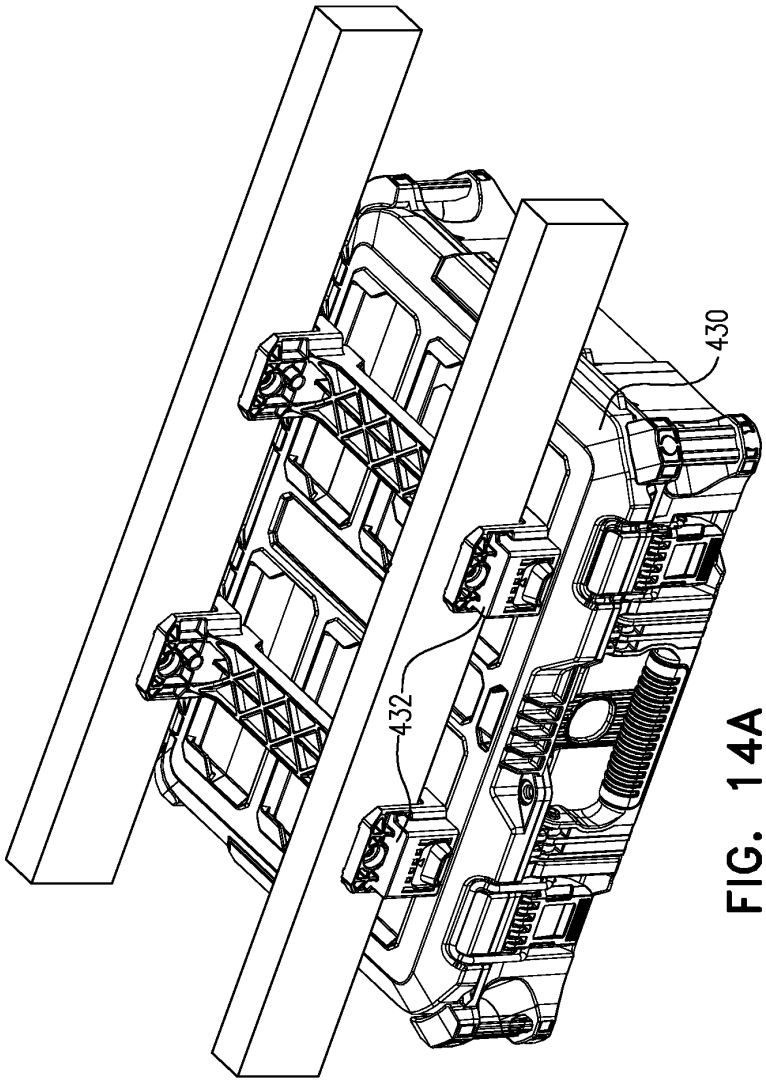


FIG. 14A

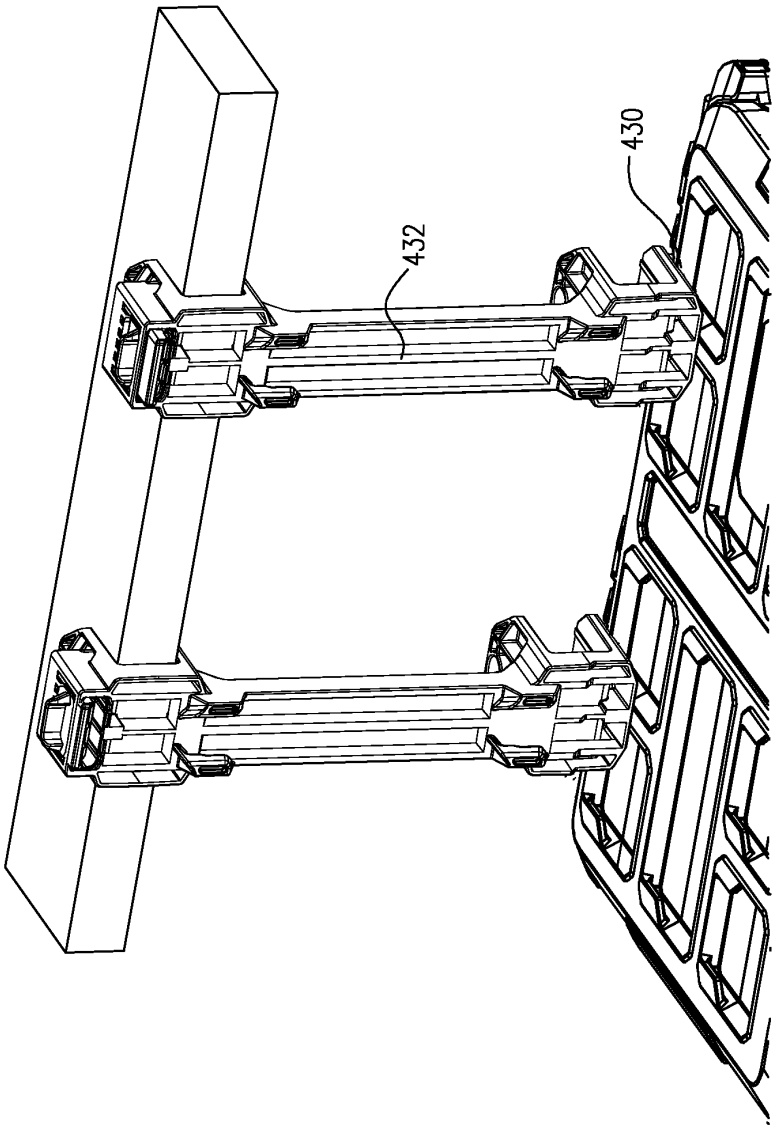


FIG. 14B

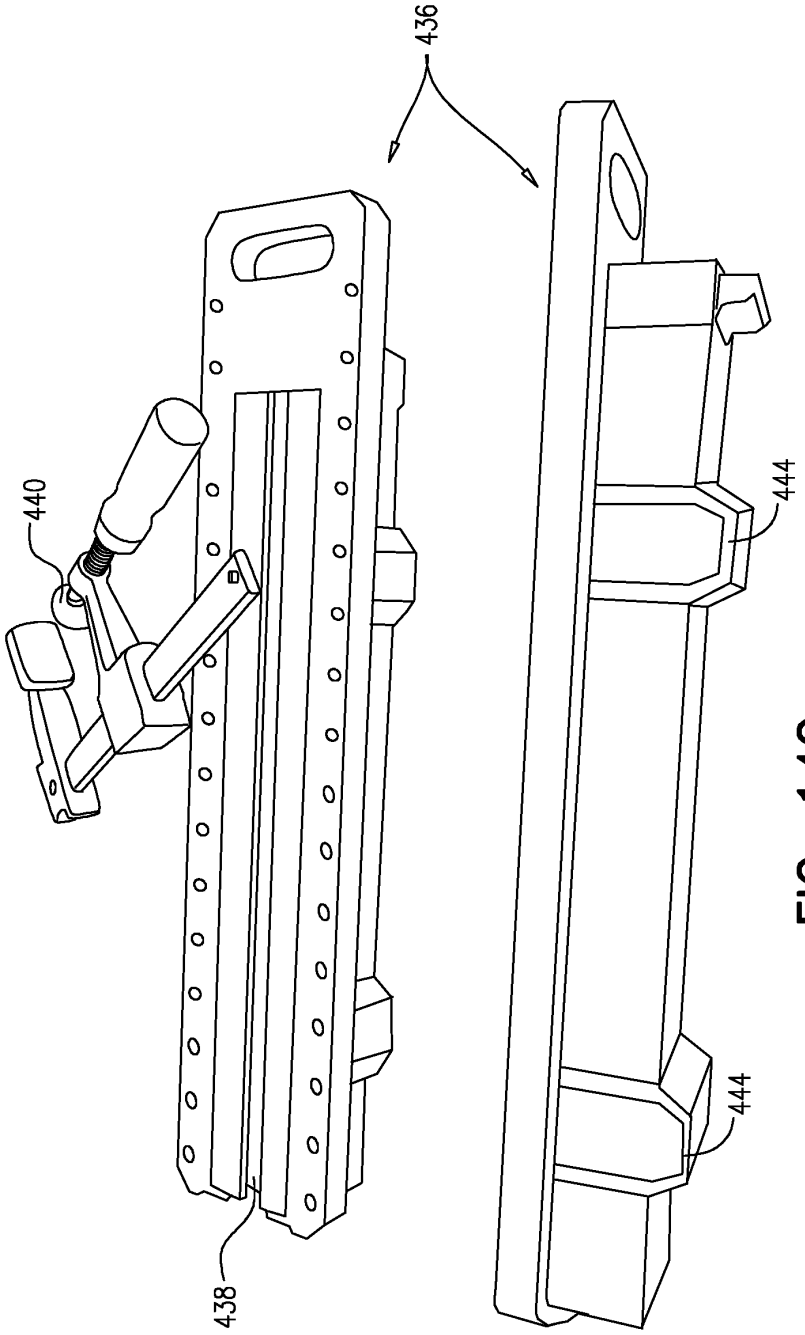


FIG. 14C

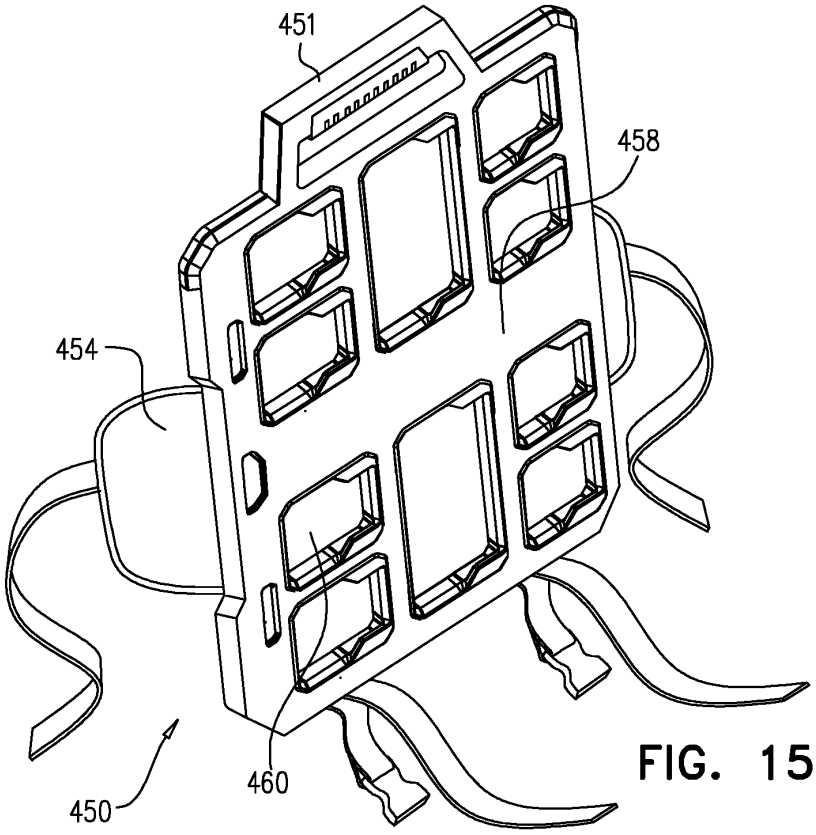


FIG. 15A

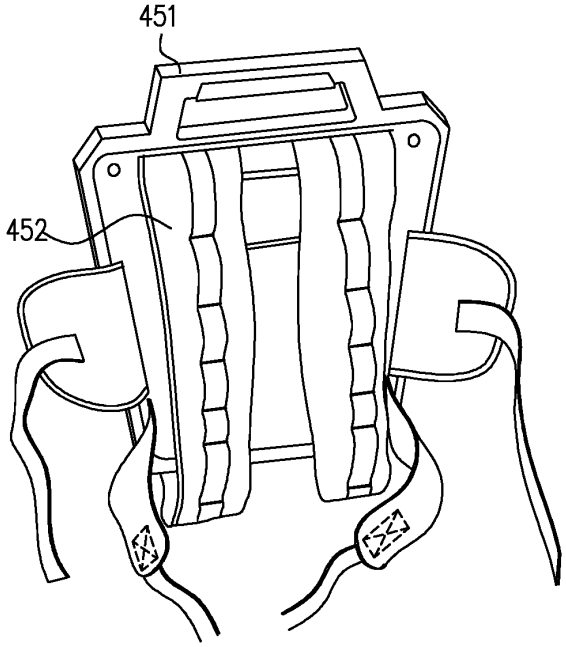


FIG. 15B

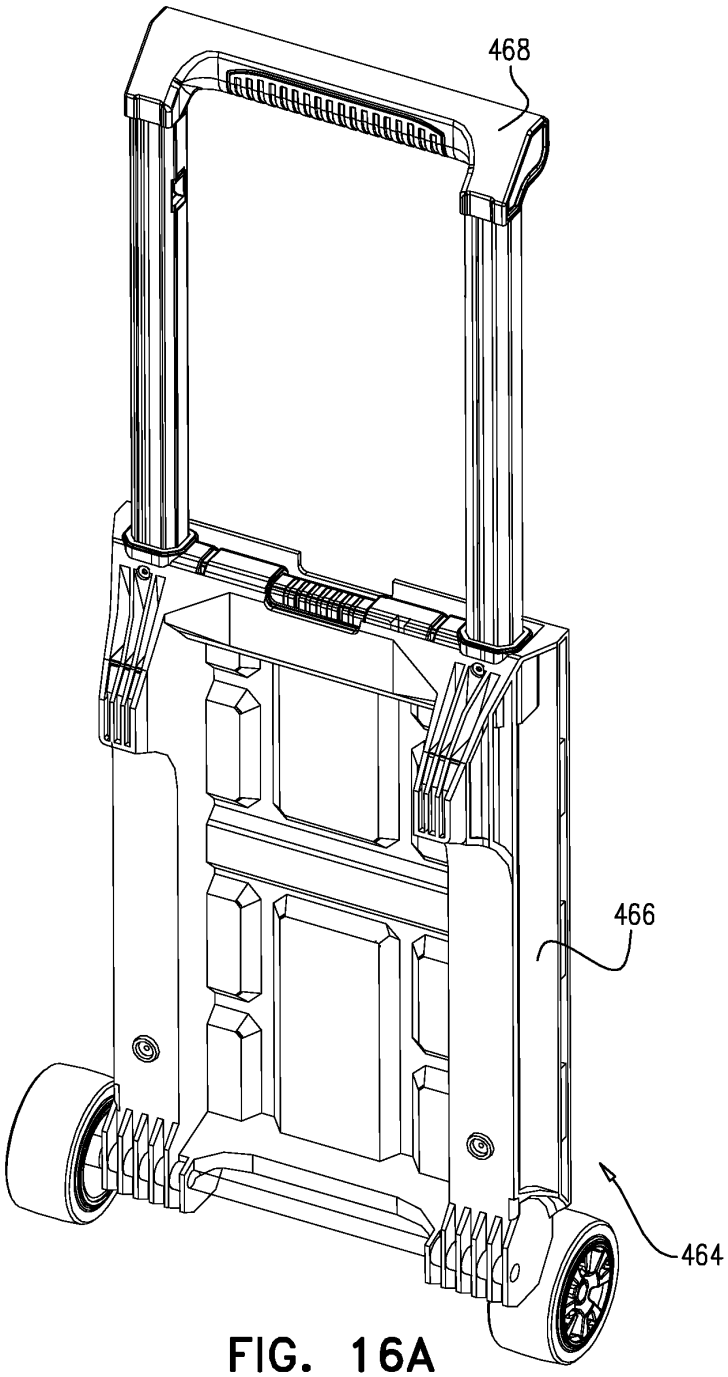


FIG. 16A

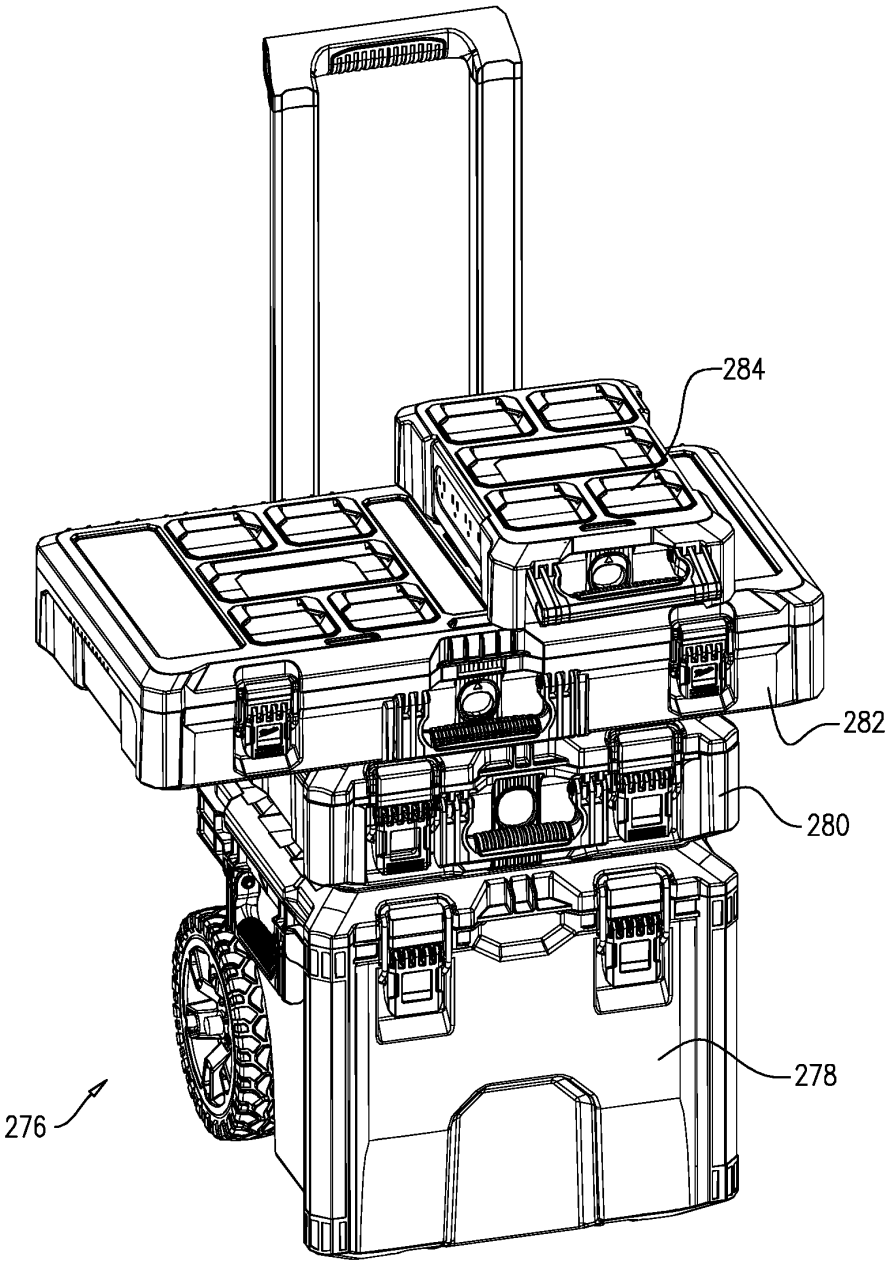


FIG. 16B

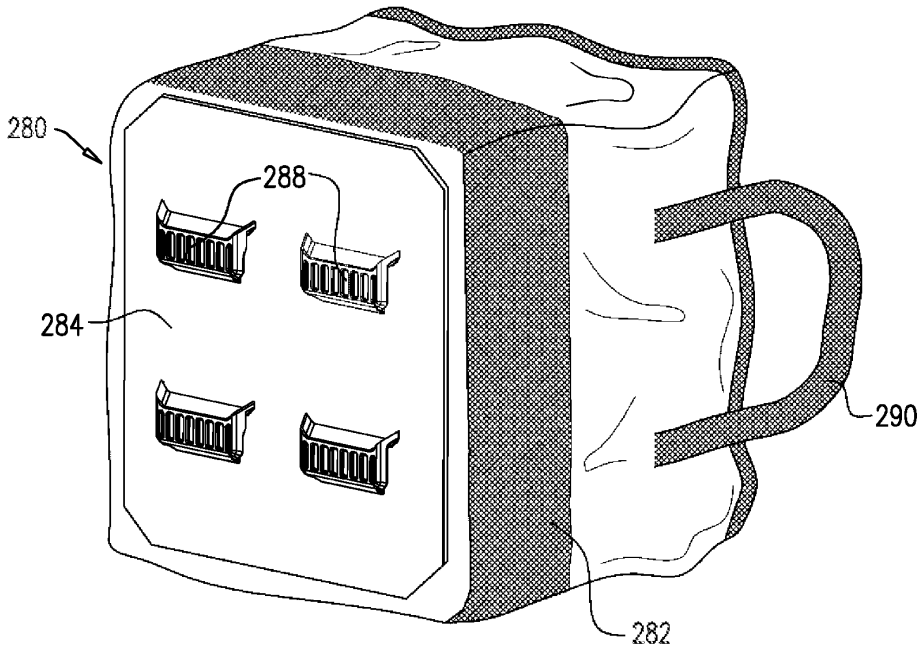


FIG. 17

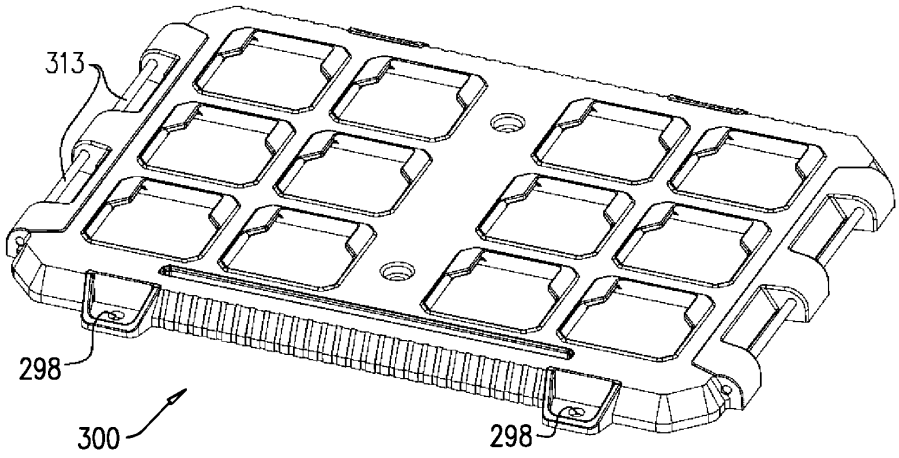


FIG. 18A

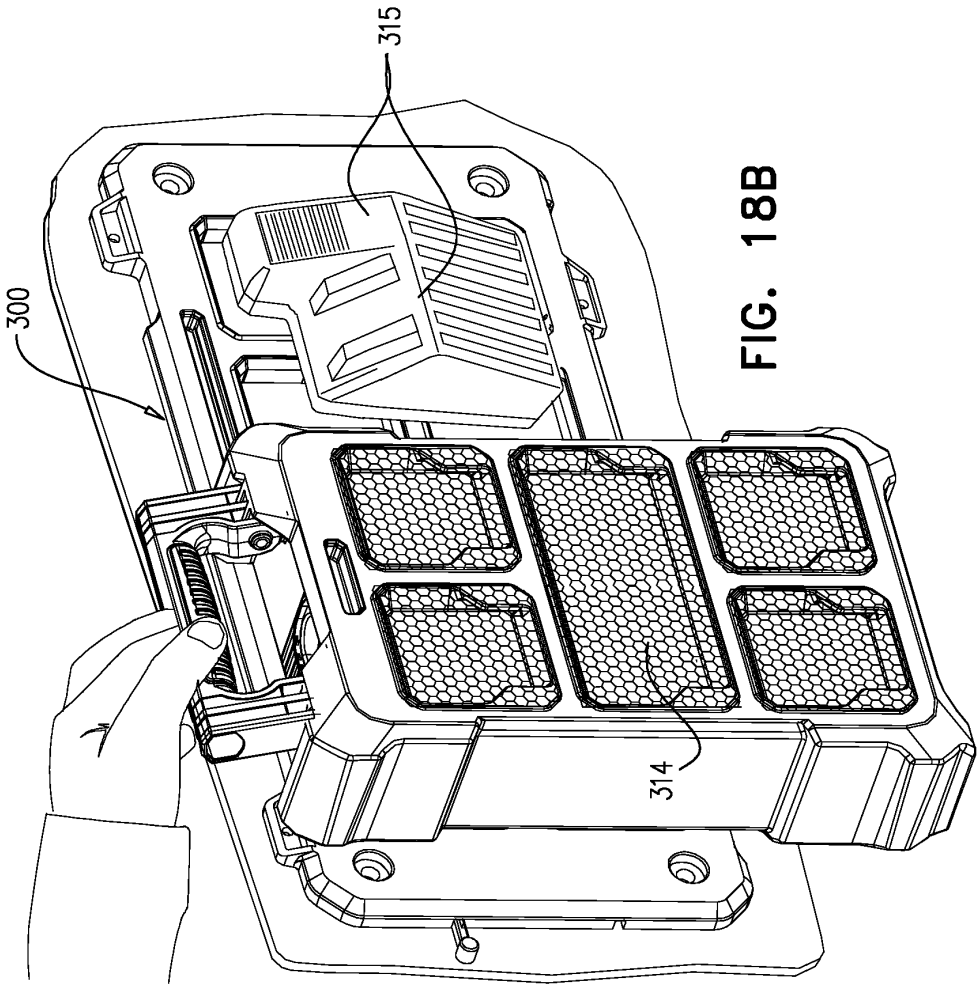


FIG. 18B

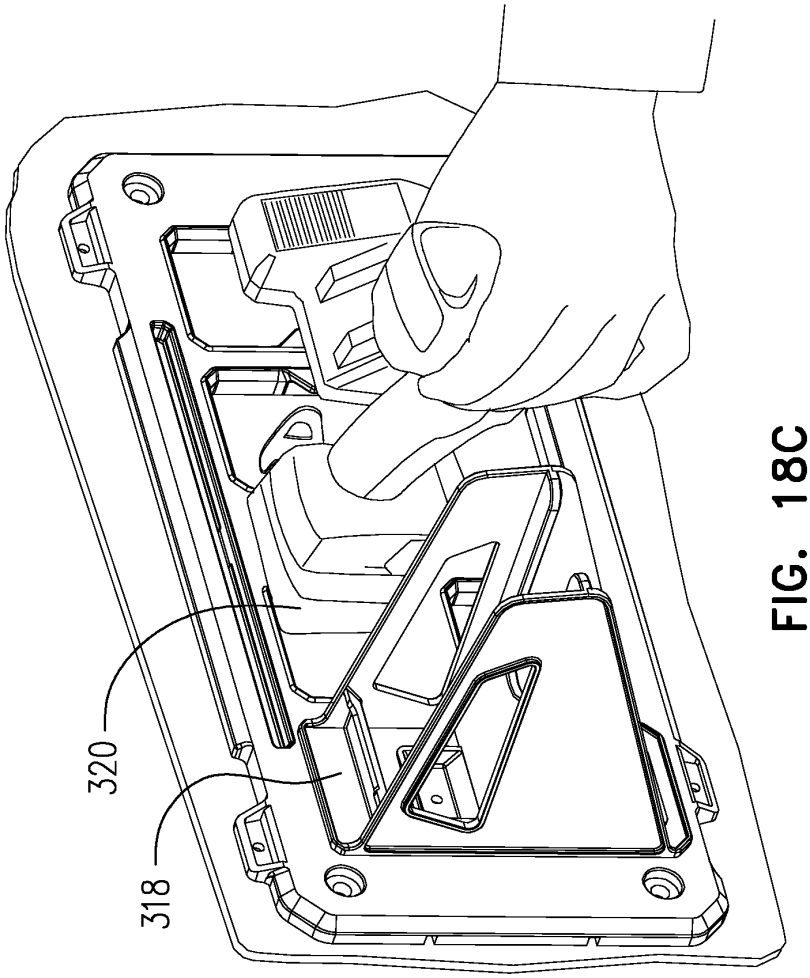


FIG. 18C

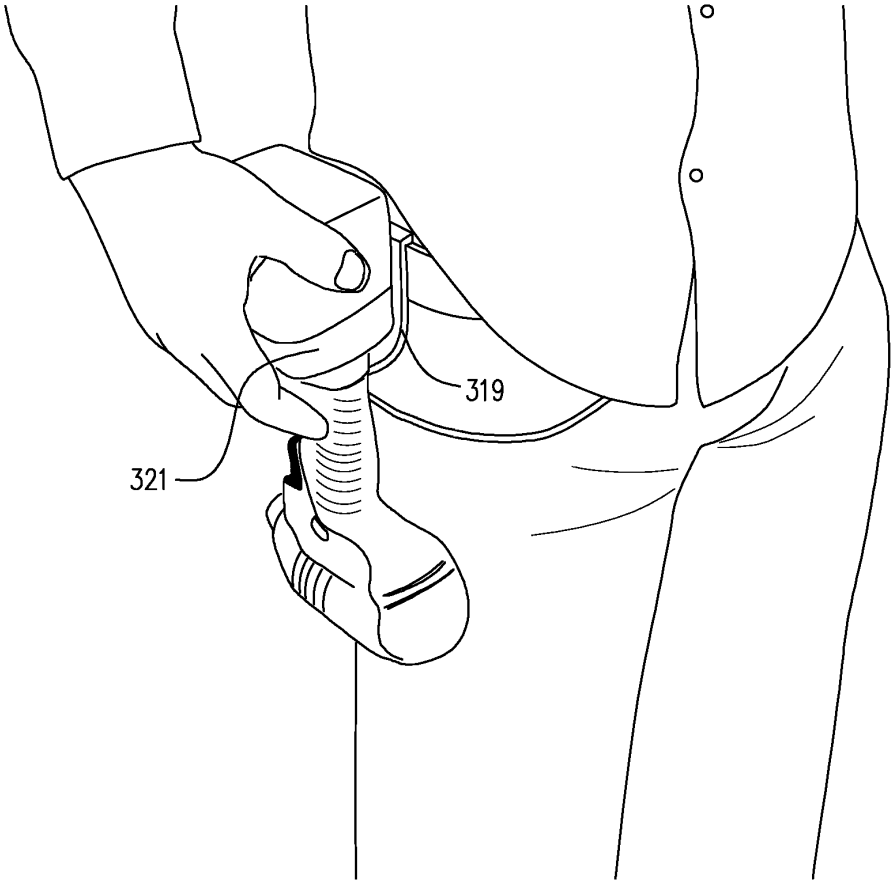
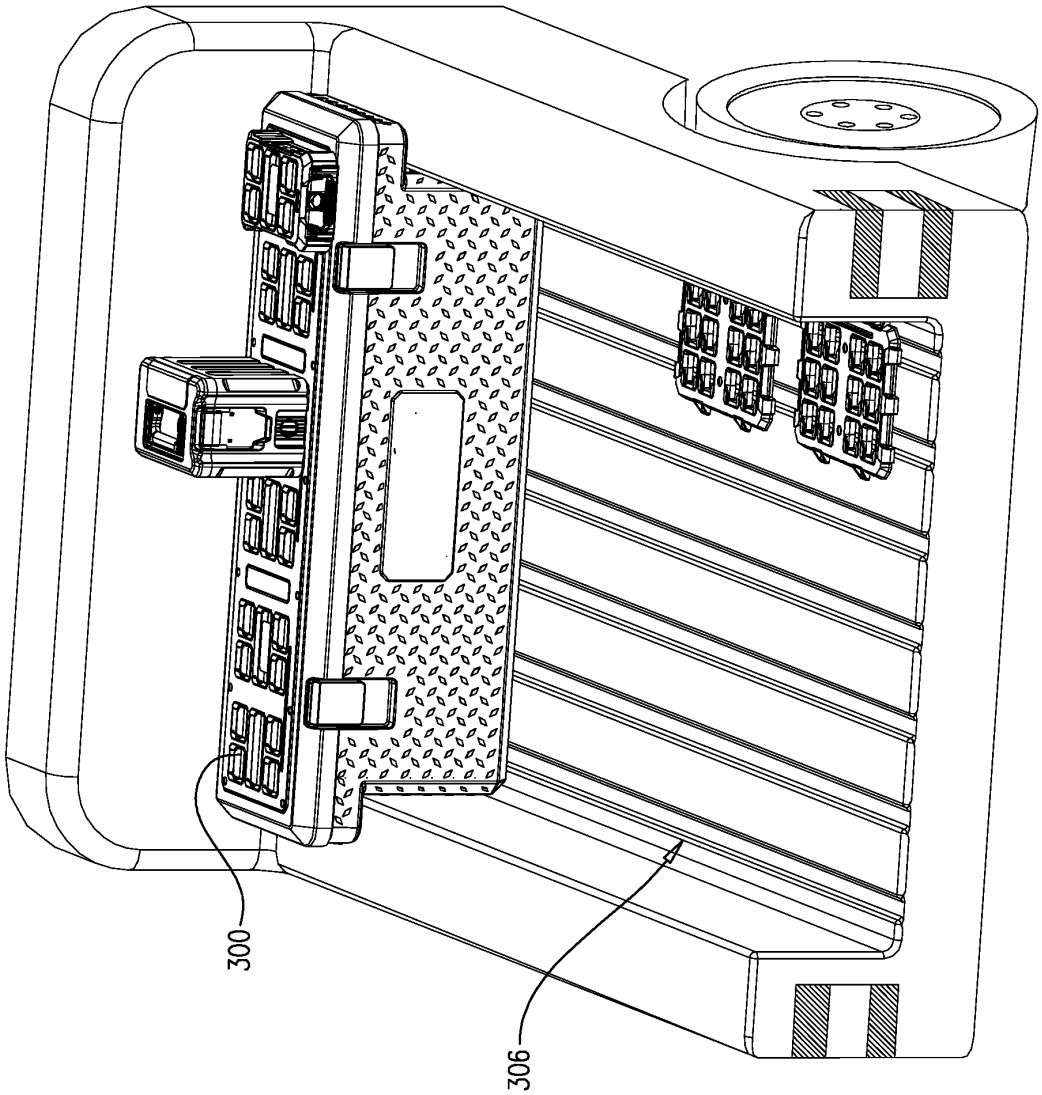


FIG. 19

FIG. 20



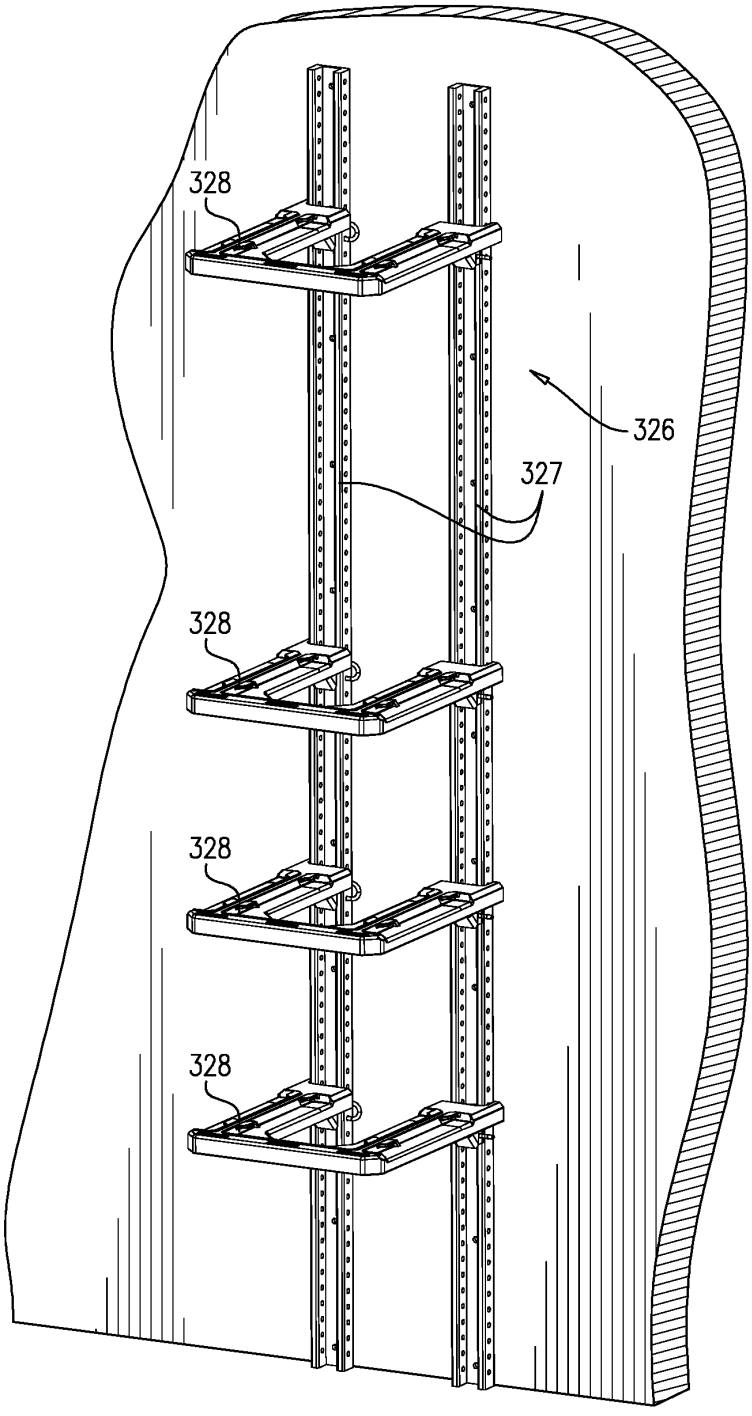


FIG. 21

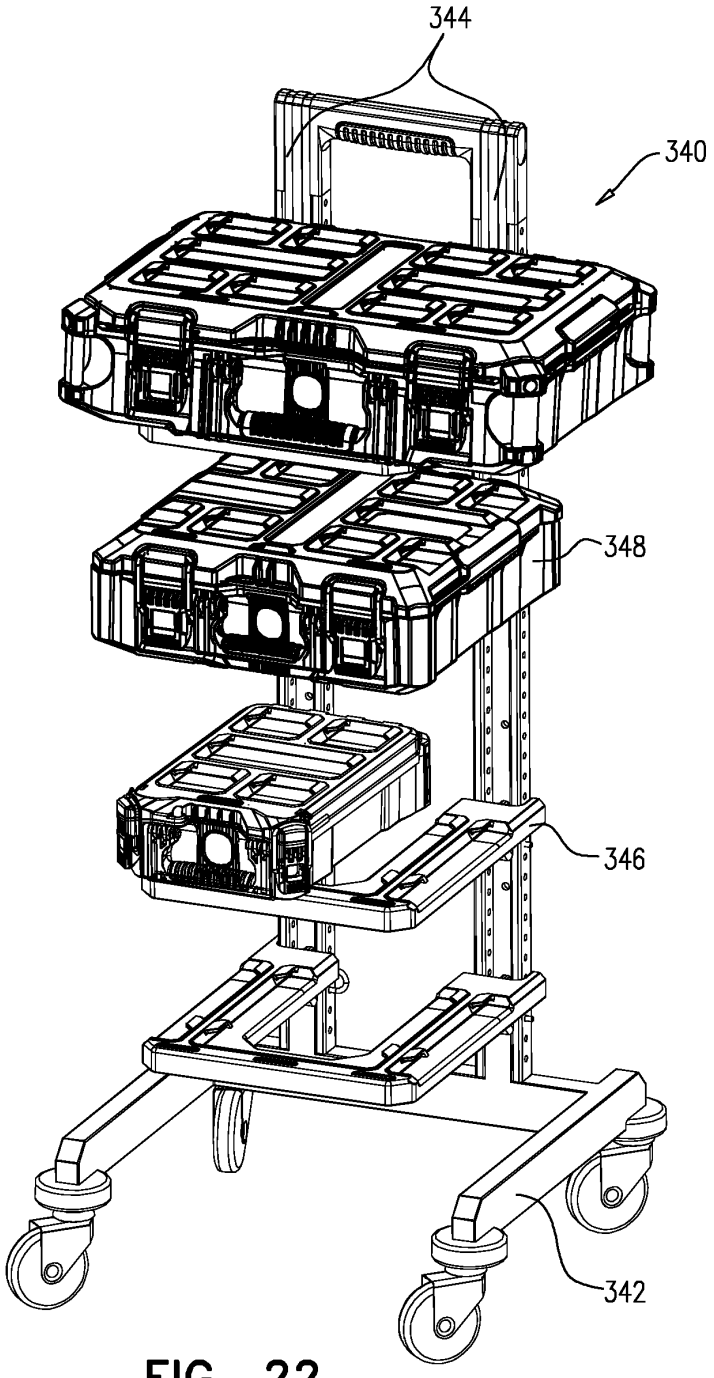


FIG. 22

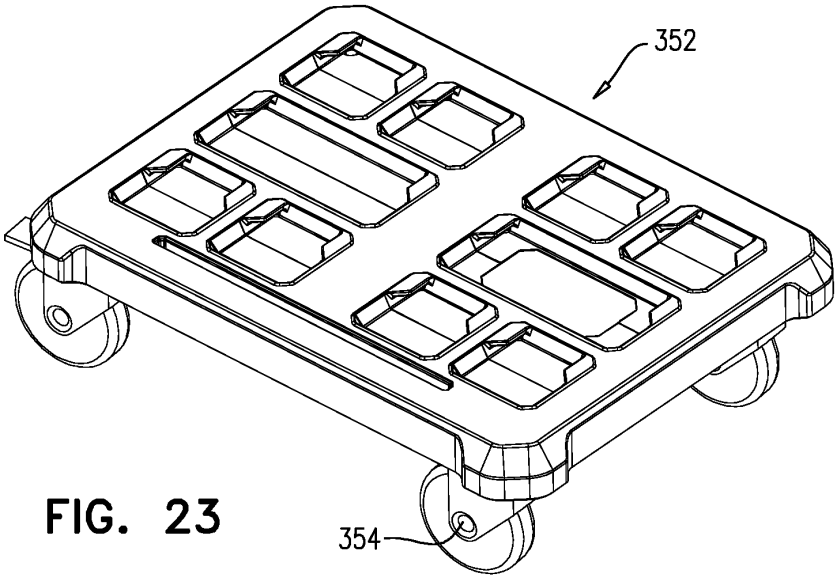


FIG. 23

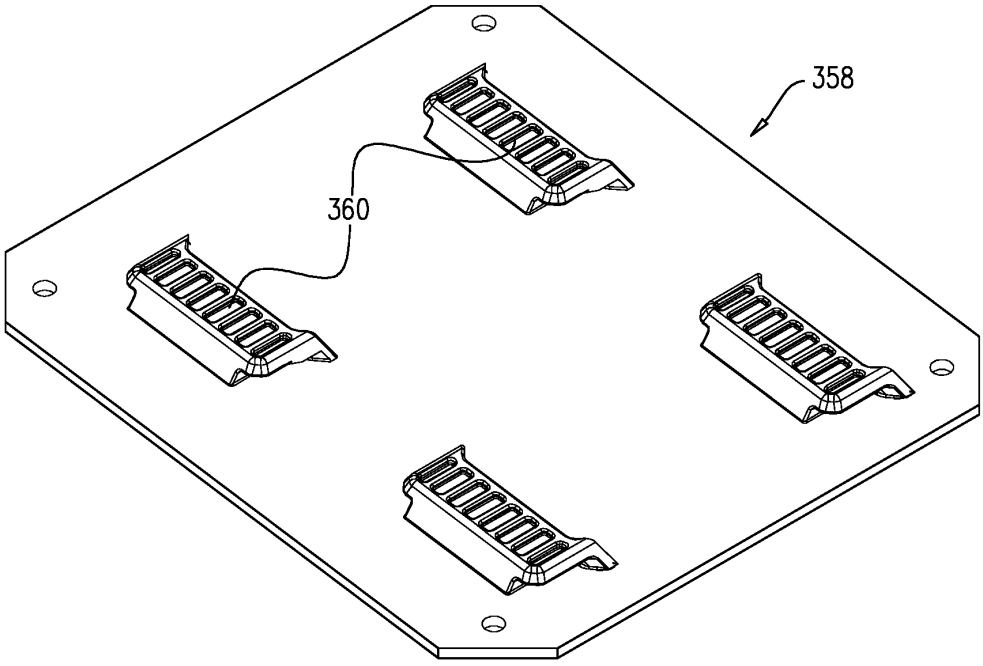


FIG. 24

Electronic Acknowledgement Receipt

EFS ID:	33601456
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	16318-5
Receipt Date:	31-AUG-2018
Filing Date:	29-NOV-2017
Time Stamp:	14:29:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	55390_501C01US_Replacement_Drawing_Transmittal.pdf	15140 ff2e00642c695e80c27a28418bd95df50161a6f8	no	1

Warnings:

Information:					
2	Drawings-only black and white line drawings	501C01US_Drawings.PDF	19072006 97ca13e02eeb70fd6e3fd783fb3b7297e342500e	no	48
Warnings:					
Information:					
			Total Files Size (in bytes):	19087146	

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	16318-5	1070

30623 7590 09/05/2018

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	

ART UNIT	PAPER NUMBER
3728	

NOTIFICATION DATE	DELIVERY MODE
09/05/2018	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):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com

Applicant-Initiated Interview Summary	**Application No.** 15/826,232	**Applicant(s)** BRUNNER, YARON	
	Examiner GIDEON WEINERTH	**Art Unit** 3728	

All participants (applicant, applicant's representative, PTO personnel):

(1) *GIDEON WEINERTH*. (3)_____.

(2) *ELISSA KINGSLAND*. (4)_____.

Date of Interview: *29 August 2018*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☒Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: _____.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant wished to discuss several issues noted in the Office Action of 6/14/2018. Applicant first noted that the drawing objection regarding Element 46 in Office Action Paragraph 1 is present in Figure 2C. The Examiner agreed and will remove that objection in any future Office Action. Applicant also noted the Black and White photos present in the Application are not color photographs as noted in Office Action Paragraph 4. The Examiner responded that greyscale photos are not the standard black and white line drawings that are officially accepted and provided elsewhere in the drawings. Please see MPEP 608.1 (f) and rule 37 C.F. R. 1.84 Section b. Applicant also discussed the nature of the double patenting rejection in Paragraph 11. Examiner confirmed that the rejection is a provisional non-statutory double patenting rejection.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/GIDEON WEINERTH/ Examiner, Art Unit 3728	

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

———

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Corrected Application Data Sheet

Inventor Information

Inventor Number::	1
Given Name::	Yaron
Family Name::	Brunner
City of Residence::	Kibbutz Gvat
Country of Residence::	IL
Street of mailing address::	Kibbutz Gvat, P.O.B. 248
City of mailing address::	Kibbutz Gvat
Postal or Zip Code of mailing address::	3657900

Inventor Number::	2
Given Name::	Grant
Middle Name::	T.
Family Name::	Squiers
City of Residence::	Cudahy
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	3745 E. Cudahy Avenue
City of mailing address::	Cudahy
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53110

Inventor Number::	3
Given Name::	Christopher

Middle Name::	S.
Family Name::	Hoppe
City of Residence::	Milwaukee
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	3126 S. Burrell Street
City of mailing address::	Milwaukee
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

Inventor Number::	4
Given Name::	Steven
Middle Name::	W.
Family Name::	Hyma
City of Residence::	Milwaukee
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	1312 E. Warnimont Avenue
City of mailing address::	Milwaukee
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

Correspondence Information

Correspondence Customer Number::	~~111739~~ 30623

E-Mail address::	~~lp.docket.slc@dorsey.com~~ IPDocketingBOS@mintz.com

Application Information

Application Number::	15/826,232
Filing Date::	11/29/17
Application Type::	Regular
Subject Matter::	Utility
Title::	UTILITY ASSEMBLY AND COUPLING MECHANISM
Attorney Docket Number::	~~26949US01_446373-417~~ 55390-501C01US
Small Entity?::	No

Representative Information

Representative Customer Number::	~~111739~~ 30623

Applicant Information

Applicant Number::	1
Applicant Type::	Assignee
Organization Name::	Keter Plastic Ltd.
Street of mailing address::	2 Sapir Street, Industrial Zone
City of mailing address::	Herzelyia
Country of mailing address::	IL

Postal or Zip Code of mailing address::	4685206

Applicant Information

Applicant Number::	2
Applicant Type::	Assignee
Organization Name::	Milwaukee Electric Tool Corporation
Street of mailing address::	13135 West Lisbon Road
City of mailing address::	Brookfield
State or Province of mailing address::	WI
Country of mailing address::	US
Postal or Zip Code of mailing address::	53005

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2018-09-06
Name	Elissa M. Kingsland	Registration Number	63,259

80375097v.1

Electronic Patent Application Fee Transmittal

Application Number:	15826232
Filing Date:	29-Nov-2017
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Elissa Marie Kingsland
Attorney Docket Number:	55390-501C01US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**140**

Electronic Acknowledgement Receipt	
EFS ID:	33641528
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	06-SEP-2018
Filing Date:	29-NOV-2017
Time Stamp:	11:37:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$140
RAM confirmation Number	090618INTEFSW00012594500311
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	ADS_55390-501C01US.pdf	21292 3cf0077d9288e9e26e96be3c3136a5bdaf63505a	no	4
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2	Fee Worksheet (SB06)	fee-info.pdf	30414 5b8e4c77c4c24f713b10a909fbadf24a934f3295	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	51706		

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New Applications Under 35 U.S.C. 111

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

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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.

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5127005

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GRANT T. SQUIERS	09/05/2018
CHRISTOPHER S. HOPPE	09/04/2018
STEVEN W. HYMA	09/05/2018

RECEIVING PARTY DATA

Name:	MILWAUKEE ELECTRIC TOOL CORPORATION
Street Address:	13135 WEST LISBON ROAD
City:	BROOKFIELD
State/Country:	WISCONSIN
Postal Code:	53005

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15826232

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 617-542-6000
Email: emkingsland@mintz.com, taschraffa@mintz.com, ipdocketingbos@mintz.com
Correspondent Name: MINTZ LEVIN
Address Line 1: ONE FINANCIAL CENTER
Address Line 4: BOSTON, MASSACHUSETTS 02111

ATTORNEY DOCKET NUMBER:	55390-501C01US
NAME OF SUBMITTER:	ELISSA M. KINGSLAND
SIGNATURE:	/Elissa M. Kingsland/
DATE SIGNED:	09/06/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6
source=Dec_Assign_501C01#page1.tif
source=Dec_Assign_501C01#page2.tif

source=Dec_Assign_501C01#page3.tif
source=Dec_Assign_501C01#page4.tif
source=Dec_Assign_501C01#page5.tif
source=Dec_Assign_501C01#page6.tif

Attorney Docket No.: 55390-501C01US (2517034)
US Application No.: 15/826,232

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

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 705
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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 _____ Date 9.5.18

80375140v.1

Attorney Docket No.: 55390-501C01US (2517034)
US Application No.: 15/826,232

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

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 707
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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 _____

80343876v.1

Attorney Docket No.: 55390-501C01US (2517034)
US Application No.: 15/826,232

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

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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

Steven W. Hyma

Signature

9/5/19

Date

80343942v.1

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3728
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION UNDER 37 C.F.R. § 1.111

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

Dear Commissioner:

INTRODUCTORY COMMENTS

This paper is in response to the Office Action dated June 14, 2018.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Drawings begin on page 3 of this paper and include an attached replacement sheet.

Amendments to the Claims are reflected in the listing of claims which begins on page 4 of this paper.

Remarks/Arguments begin on page 8 of this paper.

A **Declaration under 37 C.F.R. § 1.130(a) by Yaron Brunner** is submitted herewith.

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0224] with the following replacement paragraph as follows:

[0224] 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 ~~321B~~ 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.

Please replace paragraph [0232] with the following replacement paragraph as follows:

[0232] FIG. 17 shows a carrying bag ~~280~~ 281 having soft side walls ~~282~~ 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 ~~280~~ 281 has a carrying strap 290 useful for hand held or shoulder carrying of the bag. FIG. 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.

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AMENDMENTS TO THE DRAWINGS

One replacement drawing sheet (41/48) is submitted herewith. Please replace current sheet 41/48 (filed on August 30, 2018) with the replacement sheet attached hereto.

Attachment: Replacement Sheet (FIGS. 17-18A, Replacement Sheet 41/48).

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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) 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 or the second utility module;~~

a female coupler at a face of ~~the other~~ one of the first utility module ~~or~~ and the second utility module~~;wherein said~~, the female coupler ~~has~~ 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~~direction, wherein the at least one locking rib extends substantially parallel to the sliding path;

a male coupler at a face of the other one of the first utility module and the second utility module, ~~wherein said~~the male coupler ~~includes~~ having a projecting locking location disposed in register with ~~said~~ the depressed locking location and configured with at least one locking tongue extending along ~~said engaging~~ the sliding path at a second ~~sense~~direction, opposite to ~~said~~ the first ~~sense~~direction, and configured for arresting engagement at a space between ~~said~~the locking rib and depressed surface; and

at least one locking member for arresting the first utility module with respect to ~~said~~the second utility module and preventing sliding displacement along ~~said~~the sliding path.

2. (Currently Amended) The coupling mechanism of claim 1, wherein ~~said~~the female coupler is configured at the top face of the first utility module, and wherein the male coupler is configured at the bottom face of the second utility module.

3-4. (Cancelled).

5. (Currently Amended) The coupling mechanism of claim 1, wherein the female coupler includes two locking ribs that extend at side edges of ~~a~~ the depressed locking location and disposed substantially parallel to the sliding path.

6. (Currently Amended) The coupling mechanism of claim 1, wherein the female coupler includes two locking ribs that each extend at a respective side edge of two neighboring depressed locking locations, ~~said~~ the locking ribs disposed substantially parallel to the sliding path.

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7. (Currently Amended) A coupling mechanism for a utility assembly that ~~includes~~ comprises at least a first utility module and at least a second utility module, ~~said~~the coupling mechanism ~~is~~ being configured between the first utility module and the second utility module; one of a top face of the first utility module ~~or~~ and a bottom face of the second utility module includes 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~~the top face of the first utility module ~~or~~ and a bottom face of the second utility module includes at least one projecting portion with a locking tongue disposed in register with ~~said~~the at least one depressed locking location, and at least one locking latch disposed in register with ~~said~~the 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~~the at least one locking rib ~~or said~~and the at least one locking tongue.

8. (Currently Amended) The coupling mechanism of claim 7, wherein (i) the at least one locking rib extends substantially parallel to the sliding path, (ii) the at least one locking rib extends substantially perpendicular and intersects the sliding path, (iii) a single locking rib extends at rear end of a depressed locking location and substantially perpendicular to the sliding path, (iv) wherein two locking ribs extend at side edges of a depressed locking location and disposed substantially parallel to the sliding path, or (v) two locking ribs each extend at a respective side edge of two neighboring depressed locking locations, ~~said~~the locking ribs disposed substantially parallel to the sliding path.

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9. (Original) The coupling mechanism of claim 7, 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.

10. (Original) The coupling mechanism of claim 7, 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.

11. (Currently Amended) The coupling mechanism of claim 7, wherein the at least one locking latch is configured for displacement in a direction substantially normal to a respective face of a utility module.

12. (Currently Amended) The coupling mechanism of claim 7, wherein the at least one locking latch is spring biased and configured for normally projecting from a face of the respective first or second utility module.

13. (Original) The coupling mechanism of claim 7, wherein the locking latch is manipulable to be opened through an opening configured at a front wall of the respective utility module.

14. (Original) The coupling mechanism of claim 7, wherein one or both of the locking tongue and locking rib are configured with a slanting surface at corresponding orientation along the sliding path.

15. (Original) The coupling mechanism of claim 7, wherein one or both of the locking tongue and locking rib are configured with a slanting surface at corresponding orientation along the sliding path

16. (Currently Amended) The coupling mechanism of ~~claim 7~~claim 1, wherein one or both of a front edge of the projecting ~~portion (or the projecting locking location)~~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~~ arrested engagement with the first utility module.

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17. (Currently Amended) The coupling mechanism of claim 7, 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.

18. (Currently Amended) The coupling mechanism of ~~claim 7~~claim 1, wherein the first utility module is configured for detachably attaching one or more second utility modules thereto.

19. (Currently Amended) The coupling mechanism of ~~any one of~~ claim 7, wherein the first utility module is configured for detachably attaching one or more second utility modules thereto.

20. (Cancelled).

21. (New) The coupling arrangement of claim 1, wherein at least one locking latch arresting location is configured at a top face of one of the first utility module and the second utility module and at least one locking latch configured at a bottom face of the other of the first utility module and the second utility module, such that the at least one locking latch being axially displaceable between a projecting position in which it interlocks with the at least one locking latch arresting location for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path, and a retracted position in which sliding displacement of the first utility module with respect to the second utility module along the sliding path is permitted.

22. (New) The coupling arrangement of claim 7, wherein the at least one locking latch is axially displaceable between a projecting position and a retracted position, wherein, when in the projecting position, the at least one locking latch interlocks with the at least one locking latch arresting location for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path, and wherein, when in the retracted position, sliding displacement of the first utility module with respect to the second utility module along the sliding path is permitted.

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REMARKS

The Office Action addresses and rejects claims 1-20. Reconsideration of is respectfully requested.

Interview

Applicant thanks Examiner Weinerth for the telephone interview on August 29, 2018 with Applicant's undersigned representative. During the interview, drawing objections and the double patenting rejection were discussed. The Examiner agreed that the drawing objection outlined in paragraph 1 of the Office Action was made in error. The Examiner also stated that the double patenting rejection is a provisional non-statutory obviousness doubling patenting rejection.

Amendments to the Specification and Drawings

The specification is amended as indicated above to correct obvious typographical errors in paragraphs [0224] and [0232].

Figure 17 is amended to replace reference numbers "280" and "282" with "281" and "283," respectively, to address the objections to the drawings.

No new matter is added.

Amendments to the Claims

Claims 3, 4, and 20 are cancelled herein without prejudice or disclaimer.

Claims 1, 2, 5-8, 11-12, and 16-19 are amended as indicated above. New dependent claims 21 and 22 are added. Support for this amendments can be found throughout the specification and drawings, including for example, in paragraphs [0204], [0216], and [0222], original claim 3, and FIGS. 2A, 7A, 8A and 10A-10B of the published application.

With respect to any claim cancellations or amendments, Applicant has not dedicated to the public nor abandoned any unclaimed subject matter and moreover have not acquiesced to any

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rejections and/or objections. Applicant expressly reserves the right to pursue protection of any of the presently excluded subject matter or claim embodiments in one or more future continuation and/or divisional application(s).

No new matter is added.

Objections to the Drawings

The drawings are objected to under 37 C.F.R. § 1.84(p)(5) because "they do not include the following reference sign(s) mentioned in the description: Element 46 is recited on Page 25, four lines from the bottom of the page, but is not present in the drawings." *Office Action*, p. 2. As mentioned above, agreement was reached during the interview that this objection was made in error. In particular, Applicant indicated that Element 46 is illustrated in at least FIG. 1 and FIG. 2C of the application as-filed. Withdrawal of this objection to the drawings is thus respectfully requested.

The Office Action further states that "[e]lement 321B is recited on Page 33, but is not present in the drawings." *Id.* Without conceding to the objection, to expedite prosecution, paragraph [0224] of the published application is amended to replace "321B" to "312B," thereby rendering this objection moot. Withdrawal of this objection to the drawings is thus respectfully requested.

The drawings are also objected to as failing to comply with 37 C.F.R. § 1.84(p)(4) because "reference character '282' has been used to designate both a second intermediate container and soft sided walls on [p]age 35 of the Specification." *Id.* Without conceding to the objection, to expedite prosecution, paragraph [0232] of the published application, and Figure 17 is amended to replace "282", which references the soft side walls, with "281," thereby rendering this objection moot. Withdrawal of this objection to the drawings is thus respectfully requested.

The Office Action also objects to the drawings for containing color photographs as clarified during the interview. Applicant notes that Applicant previously filed formal drawings

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on August 31, 2018 in which all drawings are black and white line drawings, thereby rendering this objection moot. Withdrawal of this objection to the drawings is thus respectfully requested.

Rejections Under 35 U.S.C. § 112

Claims 1-6 and 12 are rejected under 35 U.S.C. § 112(b) as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor regards as the invention. The rejections are addressed in the amendments made herein to claims 1 and 12 as indicated above, thereby rendering these rejections moot. Withdrawal of these rejections is respectfully requested.

Rejections Under 35 U.S.C. § 102

Claims 1-3 and 5-20 are rejected under 35 U.S.C. § 102(a)(1) as being anticipated by U.S. Patent Publication No. 2017/0166352 of Hoppe et al ("Hoppe"). Claims 1, 2 and 4 are rejected as being anticipated by U.S. Patent Publication No. 2011/0139665 of Madsen ("Madsen"). Applicant respectfully disagrees.

Hoppe

Submitted herewith is a Declaration under 37 C.F.R. § 1.130(a) by Yaron Brunner (hereinafter, the "Declaration") that establishes the attribution of subject matter contained within Hoppe, which lists Milwaukee Electric Tool Corporation (hereinafter, "Milwaukee") as an Applicant, to himself.

The Office Action cites to various sections of Hoppe, including for examples, paragraphs [0031]-[0035] and [0037] that reference FIGS. 1-11. *Office Action*, pp. 5-8. As explained and supported in the Declaration, "[m]any figures in the Hoppe Application include drawings that were prepared from the CAD models that I shared with Milwaukee via email on August 15, 2016, October 27, 2016, and November 27, 2016 (see paragraphs above). In particular, FIGS. 1-11 of the Hoppe Application were prepared from the CAD models MS-org semi_2016-10-27 and MM00036753 MEDIUM BASE_11-24-16_up that I designed/invented and forwarded to Milwaukee." *Declaration*, ¶ 13. Thus, Hoppe does not constitute prior art under 35 U.S.C. §

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102(a)(1), and under 35 U.S.C. § 102(a)(2). Withdrawal of this rejection is respectfully requested.

Madsen

Madsen fails to teach or suggest each and every feature recited in independent claim 1. For example, Madsen does not disclose or suggest "wherein the at least one locking rib extends substantially parallel to the sliding path," as recited in claim 1. As such, for at least this reason, claim 1 distinguishes over Madsen, and represents allowable subject matter. Claim 2 depends from claim 1 and represents allowable subject at least because it depends from allowable case claim. Without conceding to this rejection, to expedite prosecution, claim 4 is cancelled by the present paper, thereby rendering this rejection thereof moot.

Double Patenting

Claims 1-20 are provisionally rejected on the ground of obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Patent Application No. 15/826,201. Applicant does not respond substantively at this time to this double patenting rejection due to the rejection being provisional.

The Office Action states that Applicant is advised that should claim 14 be found allowable, claim 15 will be objected to under 37 C.F.R. § 1.75 as being a substantial duplicate thereof. Claim 15 is amended as indicated above, thereby rendering this issue moot.

The Office Action also states that Applicant is advised that should claim 16 be found allowable, claim 17 will be objected to under 37 C.F.R. § 1.75 as being a substantial duplicate thereof. Claim 16 is amended as indicated above, thereby rendering this issue moot.

The Office Action also states that Applicant is advised that should claim 18 be found allowable, claim 19 will be objected to under 37 C.F.R. § 1.75 as being a substantial duplicate thereof. Claim 18 is amended as indicated above, thereby rendering this issue moot.

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New Claims

New claims 21 and 22 variously depend from claims 1 and 7 and represent allowable subject matter at least because they depend from an allowable base claim.

Conclusion

In conclusion, Applicant submits that all pending claims are now in condition for allowance, and allowance thereof is respectfully requested. Applicant's amendment of the claims does not constitute a concession that the claims are not allowable in their unamended form. The Examiner is encouraged to telephone the undersigned attorney for Applicant if such communication is deemed to expedite prosecution of this application.

No extension of time is believed to be due. In the event that a petition for an extension of time is required to be submitted at this time, Applicant hereby petitions under 37 C.F.R. 1.136(a) for an extension of time for as many months as are required to ensure that the above-identified application does not become abandoned.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: September 12, 2018

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
William Geary
Registration No. 31,359
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

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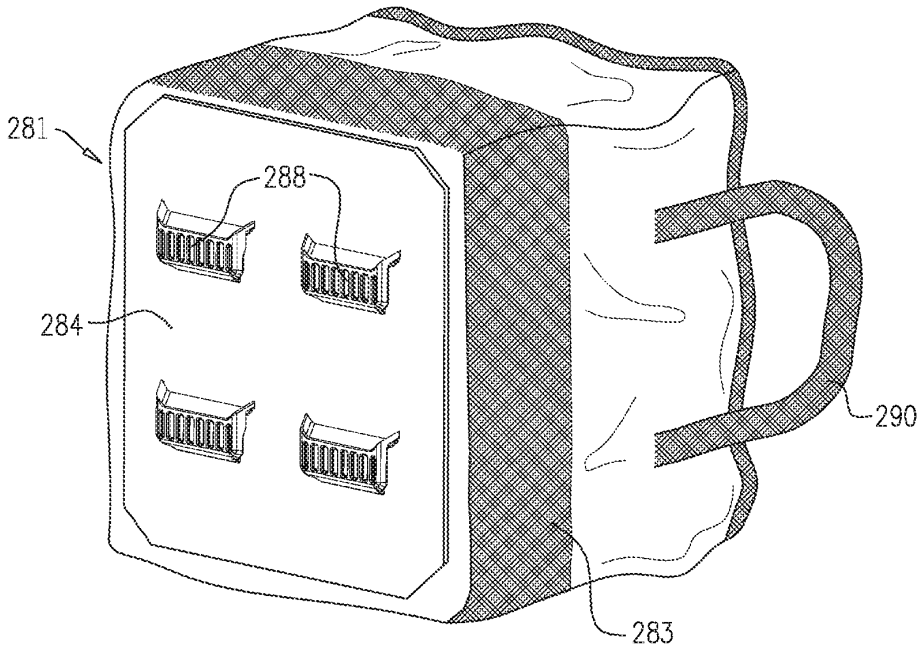


FIG. 17

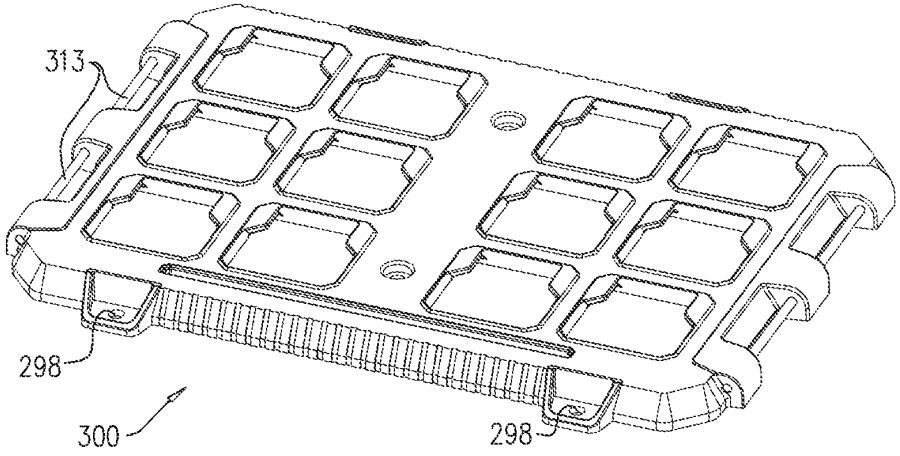


FIG. 18A

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3728
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

DECLARATION OF YARON BRUNNER UNDER 37 C.F.R. § 1.130

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

Commissioner:

I, Yaron Brunner, declare and state as follows:

1. I am an inventor on the above-referenced patent application (hereinafter, the "'232 Application"). I am a R&D Manager of the Hardware Division at Keter Plastic Ltd. (hereinafter, "Keter"), an assignee of interest of the '232 Application. Prior to my current role, I worked for Keter in various other positions, such as designer and head of design and engineering of Keter's Hardware Division. During my time at Keter, which has been over 14 years, I have been responsible for or involved with the design and development of numerous resin-based products, such as resin based plastic tool boxes, that are or have been manufactured by Keter and sold under the Keter brand and/or as an OEM for various known tool manufacturers.

2. I am aware that Christopher S. Hoppe, Steven W. Hyma, and Grant T. Squiers have been added as inventors to the '232 Application. I am also aware that Milwaukee Electric Tool

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Corporation (hereinafter, "Milwaukee") has been added as co-Applicant and co-assignee of interest of the '232 Application.

3. I have reviewed the '232 Application, including the amended claims submitted herewith. I have also reviewed the non-final Office Action issued by the U.S. Patent and Trademark Office on June 14, 2018 (the "Office Action") and the prior art references relied upon by the Examiner in the Office Action, including Milwaukee's U.S. Published Application No. 2017/0166352 to Hoppe et al. (hereinafter, the "Hoppe Application"), an application to which I have been added as an inventor. I understand that the Examiner has rejected claims 1-20 as being anticipated by the Hoppe Application.

4. In the Office Action, specifically at paragraphs 20-37, the Examiner cited to various sections of the Hoppe Application to support his rejection of the claimed subject matter. However, all of the structure from the Hoppe Application that is cited by the Examiner was included in CAD models that I disclosed to Milwaukee (including Matthew Vargo, who is one of the inventors of record of the Hoppe Application) prior to December 12, 2016, i.e., the filing date of the Hoppe Application, as discussed in more detail below.

5. Since 2015, Keter and Milwaukee have been working together on developing stackable and expandable toolbox systems. Commercial products that have been developed during this collaboration are being sold under the PACKOUT trademark, which is owned by Milwaukee. A printout of a webpage of the Milwaukee website that discusses the PACKOUT system is attached hereto as Exhibit 1. Various products within the PACKOUT product line are manufactured by Keter.

6. Generally, the PACKOUT system is a modular storage system that includes two separate interlocking structures to interlock two stacked toolboxes or tool bags together. The system includes corresponding projections/recesses on the respective bottom and top of the components to be stacked, and a latch that is biased to extend into a recess in a component that is positioned below the component with the latch.

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7. In 2016, I was the lead designer for Keter on the project and I communicated with Milwaukee frequently regarding various concepts that could be used in the PACKOUT product line. During the design process, various designs of interlocking tool boxes were conceived by me, and specifically various designs of the interlocking members, both via CAD and via physical prototypes, were prepared by Keter and were shared with Milwaukee for their consideration, feedback, and approval to be used for the PACKOUT commercial product line.

8. During the course of 2016, I developed various design features that are depicted and described in the Hoppe Application. These design features were disclosed to Milwaukee on August 15, 2016 via email (hereinafter, the "August 15th" email). A copy of the August 15th email is attached hereto as Exhibit 2.

9. The August 15th email was sent to several recipients at Milwaukee, including Matthew Vargo. The August 15th email included CAD models that depicted structural interlocking components – like those depicted in FIGS. 8-11 and 12-24 of the '232 Application. Prior to the August 15th email, I did not receive any comments from anyone at Milwaukee that suggested the structures depicted in the CAD model files.

10. Reproduced below are several images that were taken from the CAD models of the August 15th email (CAD models MS-org_2016-08-14 and MS-orgsemi_2016-08-14). Each filename includes "2016-08-14" which indicates the date in which I completed the CAD models.

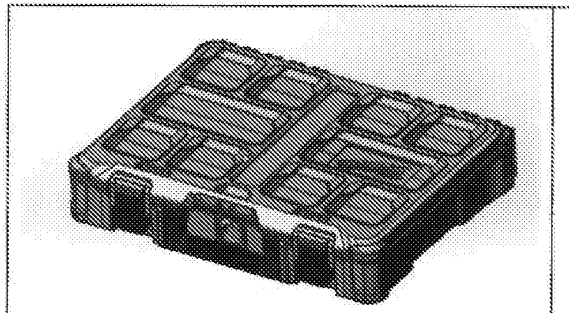


Figure 2 – Top perspective view from CAD model MS-org_2016-08-14

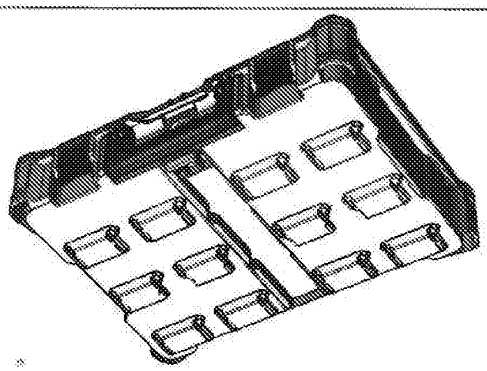


Figure 3 – Bottom perspective view from CAD model MS-org_2016-08-14

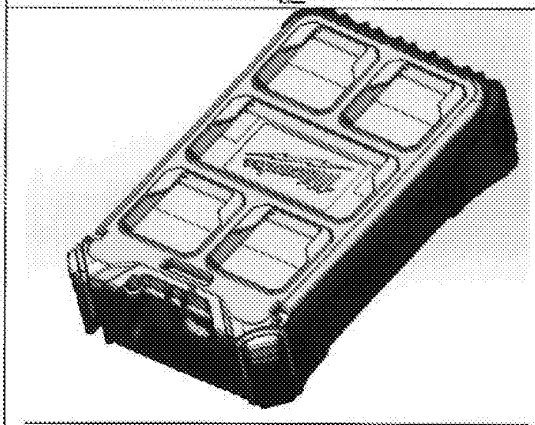


Figure 4 – Top perspective view from CAD model MS-org Semi_2016-08-14



Figure 5 – Bottom perspective view from CAD model MS-org semi_2016-08-14

11. I made some minor changes to the CAD models that were previously sent to Milwaukee in the August 15th email. I forwarded the revised CAD models to Milwaukee via email on October 27, 2016. Copies of the two emails that were sent to Milwaukee with the revised CAD models are attached hereto as Exhibit 3.

12. Further, after I initially presented the CAD models discussed above to Milwaukee, I created a CAD model with a rigid bottom portion having projecting portions, which is used in a soft

sided tool tote design. I sent this CAD model (MM00036753 MEDIUM BASE_11-24-16_up) to Milwaukee on November 27, 2016 via email. A copy of the email is attached hereto as Exhibit 4.

13. Many figures in the Hoppe Application include drawings that were prepared from the CAD models that I shared with Milwaukee via email on August 15, 2016, October 27, 2016, and November 27, 2016 (see paragraphs above). In particular, FIGS. 1-11 of the Hoppe Application were prepared from the CAD models MS-org semi_2016-10-27 and MM00036753 MEDIUM BASE_11-24-16_up that I designed and forwarded to Milwaukee.

14. By way of example, I prepared a side-by-side comparison of FIGS. 1-6 and 11 of the Hoppe Application with images taken from the CAD models I sent to Milwaukee. A copy of this comparison document is attached hereto as Exhibit 5. As can be seen from this comparison document, FIGS. 1-6 and 11 of the Hoppe Application are substantively similar to the CAD models that I sent to Milwaukee before the Hoppe Application was filed.

15. Accordingly, the subject matter of the Hoppe Application that was cited by the Examiner to reject claims 1-20 of the '232 Application was obtained directly from me, as discussed above. That is, the cited subject matter of the Hoppe Application is based on my originated disclosures that were provided to Milwaukee prior to the filing date of the Hoppe Application.

16. As such, and in further collaboration with Milwaukee, I have been added as a co-inventor to the Hoppe Application. I am also aware that Keter has been added as co-Applicant and co-assignee of interest of the Hoppe Application.

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IPR2024-01400

17. I declare that all statements made herein of my own knowledge and belief are true and that all statements made on information and belief are believed to be true, and further that the statements are made with the knowledge that willful false statements 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 issuing thereon.

Yaron Brunner

12/09/18
Date

80887322v.1

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Electronic Acknowledgement Receipt	
EFS ID:	33698239
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	12-SEP-2018
Filing Date:	29-NOV-2017
Time Stamp:	17:46:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		55390-501C01US_Response.pdf	213846 a9d6c2e1829a419855ab3ef64d48fa290274a78c	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Specification	2	2
	Drawings-only black and white line drawings	3	3
	Claims	4	7
	Applicant Arguments/Remarks Made in an Amendment	8	12

Warnings:					
Information:					
2	Drawings-only black and white line drawings	Replacement_Sheet.pdf	574517 b62bf6b60ecf6c63e62d00488afd7914387775fb	no	1
Warnings:					
Information:					
3	Affidavit-Rule 130(a)-AIA (FITF) ONLY	Declaration.pdf	3204443 7fd44e820acc4d83fb637bef1545307fdda054a4	no	6
Warnings:					
Information:					
		Total Files Size (in bytes):	3992806		

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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
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Electronic Acknowledgement Receipt	
EFS ID:	33704830
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland/Dahlia Griffin
Filer Authorized By:	Elissa Marie Kingsland
Attorney Docket Number:	55390-501C01US
Receipt Date:	12-SEP-2018
Filing Date:	29-NOV-2017
Time Stamp:	18:43:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Affidavit-Rule 130(a)-AIA (FITF) ONLY	EXHIBIT.pdf	3330103 3204eb6f709ef25024ce6ac0ff3a86077ba54238	no	25
Warnings:					

Information:	
Total Files Size (in bytes):	3330103

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New Applications Under 35 U.S.C. 111

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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.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/826,232	Filing Date 11/29/2017	☒ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT **09/12/2018**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0	X $100 =	0
Independent (37 CFR 1.16(h))	* 2	Minus	***3	= 0	X $460 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

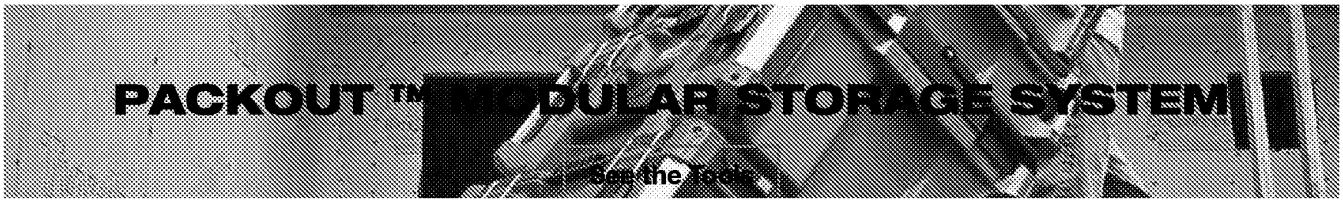
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☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** 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 number found in the appropriate box in column 1.

LIE
Katrina L. Harling

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

EXHIBIT 1



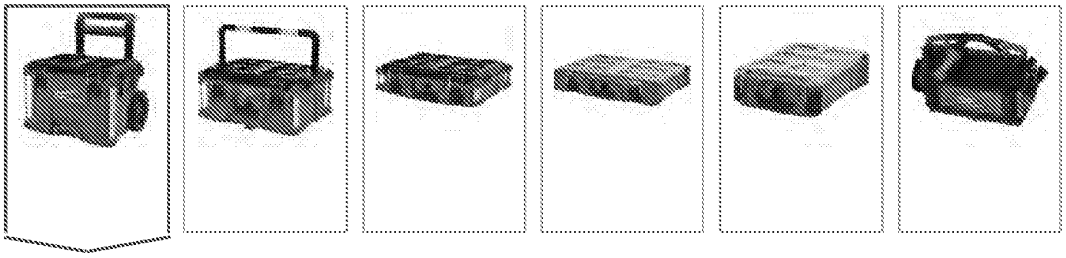
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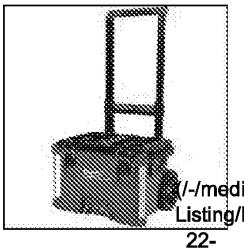
Rolling Tool Box

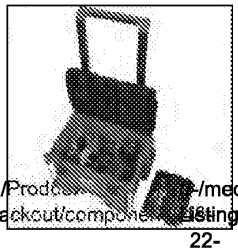


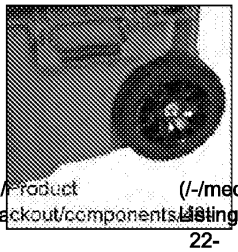
- Industrial-Grade Extention Handle
- IP65 Rated protection
- Metal Reinforced Locking Point
- Metal Reinforced Corners
- Built-In Hardware for Tie-Down
- Modular Connectivity with ALL PACKOUT Components

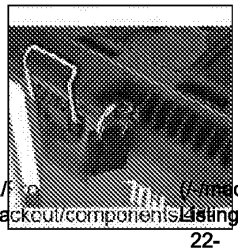
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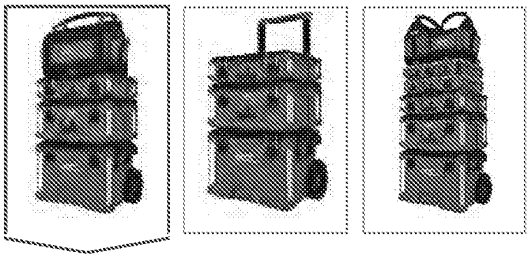

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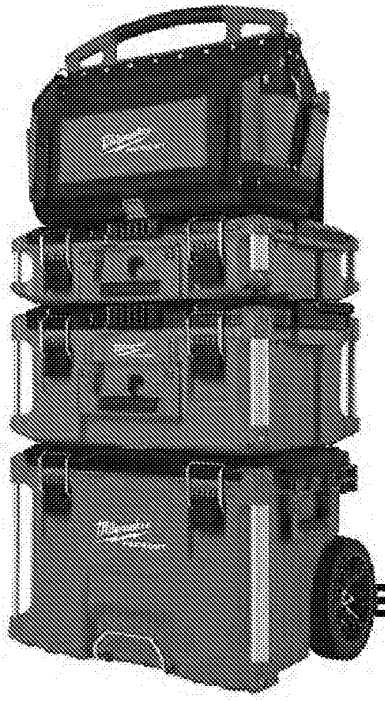

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PACKOUT CONFIGURATIONS



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IPR2024-01400



20" Tote 48-22-8320 (/Products/Storage-Solutions/PACKOUT/48-22-8320)

Tool Box 48-22-8424 (/Products/Storage-Solutions/PACKOUT/48-22-8424)

Large Tool Box 48-22-8425 (/Products/Storage-Solutions/PACKOUT/48-22-8425)

Rolling Tool Box 48-22-8426 (/Products/Storage-Solutions/PACKOUT/48-22-8426)



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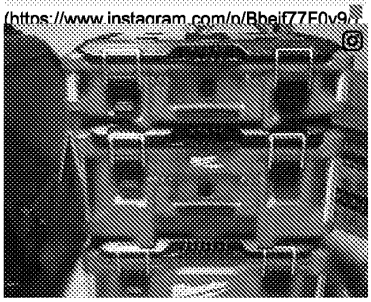


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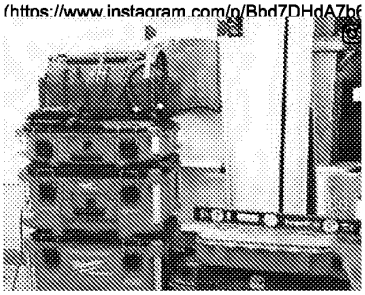


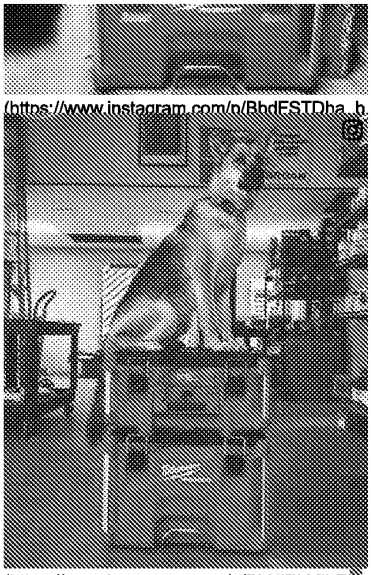
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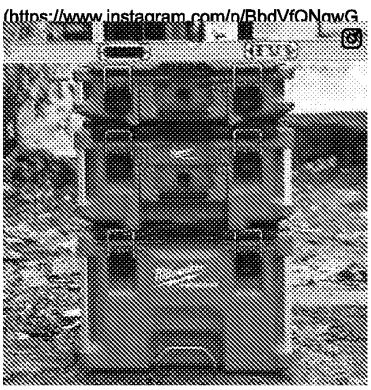
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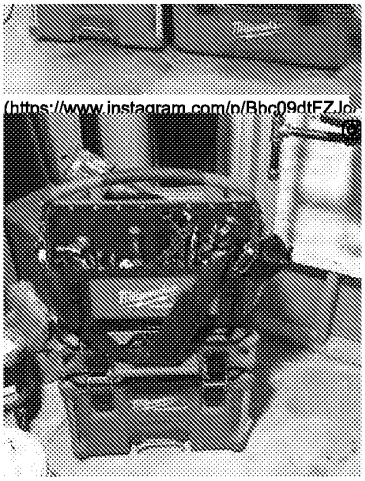


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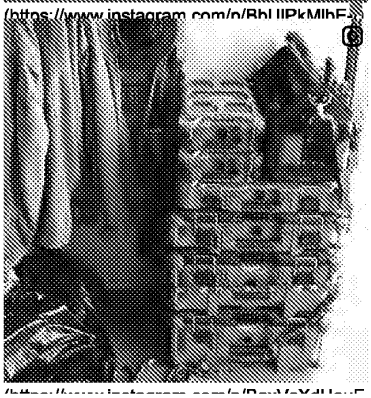

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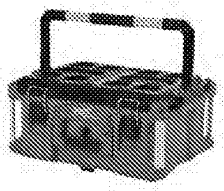
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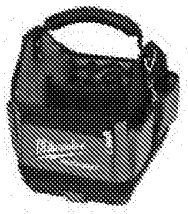
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PACKOUT™ Rolling Tool Box
(48-22-8426)



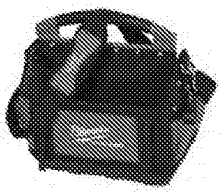
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PACKOUT™ Tool Box
(48-22-8424)



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PACKOUT™ Large Tool Box
(48-22-8425)



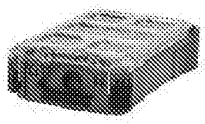
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10" PACKOUT™ Tote
(48-22-8310)



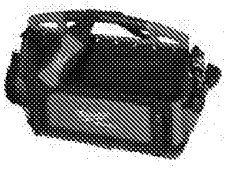
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15" PACKOUT™ Tote
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PACKOUT™ Organizer
(48-22-8430)



(/Products/Storage-Solutions/PACKOUT/48-22-8435)
PACKOUT™ Compact Organizer
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20" PACKOUT™ Tote
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Power Tool Accessories (http://www2.milwaukeetool.com/pta)

NEW PRODUCTS

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M18 FUEL™ Drain Snake w/ CABLE DRIVE™ - 2772A-20 (/Products/Power-Tools/Drain-Cleaning/Sink-Machines/2772A-20)

M18™ RADIUS™ Site Light/Charger w/ ONE-KEY™ - 2150-20 (/Products/Lighting/Site-Lights/2150-20)

PACKOUT™ Rolling Tool Box - 48-22-8426 (/Products/Storage-Solutions/PACKOUT/PACKOUT-Tool-Boxes/48-22-8426)

SHOCKWAVE Linemans Impact Auger Bits (/Products/Accessories/Metal-Drilling/Wood-Boring-Bits/SHOCKWAVE Linemans Impact Auger Bits)

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Contact Us (/Contact)

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Find A Service Center (/Support/Find-A-Service-Center)

Manuals and Downloads (/Support/Manuals-and-Downloads)

Work At Milwaukee (https://www.milwaukeetool.jobs/)

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EXHIBIT 2

To: Naiva, Matt[matt.naiva@milwaukeetool.com]; Shiri Bar[Shiri.Bar@keter.com]; Ronen Isaac[Ronen.Isaac@keter.com]; Vargo, Matthew[matthew.vargo@milwaukeetool.com]; Barton, George[george.barton@milwaukeetool.com]; Marcelle, Jesse[jesse.marcelle@milwaukeetool.com]; Squiers, Grant[grant.squiers@milwaukeetool.com]; Lanser, John[john.lanser@milwaukeetool.com]
Cc: Gongola, Andrew[andrew.gongola@milwaukeetool.com]; Shaw, Bobby[bobby.shaw@milwaukeetool.com]; Giel Matz[Giel.Matz@keter.com]
From: Yaron Brunner
Sent: Mon 8/15/2016 12:45:25 PM
Importance: Normal
Subject: RE: Keter/Milwaukee Prototype CAD review 8/9 meeting notes
MAIL_RECEIVED: Mon 8/15/2016 12:47:58 PM
MS-org_2016-08-14.zip
MS-org semi_2016-08-14.zip

Hi George,

Please find attached the organizers models file design.

We designed each organizer PC lid with a different windows pattern so we can easier compare and choose when we will see the prototypes.

Let me know if you have any question.

Regards,

Yaron.

TOOLS

EXHIBIT 3

To: Naiva, Matt[matt.naiva@milwaukeetool.com]; Barton, George[george.barton@milwaukeetool.com]
From: Yaron Brunner
Sent: Thur 10/27/2016 7:56:06 AM
Importance: Normal
Subject: RE: Organizer CAD update
MAIL_RECEIVED: Thur 10/27/2016 7:55:00 AM
MS-org_2016-10-27.zip

Matt,

Big org attached. the small one in the next mail.

Regard,



TOOLS

YARON BRUNNER
VP R&D

Mobile: +972-52-4289271 | Tel: +972-4-9582601| Fax: +972-4-9986175 | yaron.brunner@keter.com

37 Hacharoshet St, Industrial Zone ,P.O.Box 550 Carmiel 20101, Israel

KETER.COM | FACEBOOK | TWITTER

From: Naiva, Matt [mailto:matt.naiva@milwaukeetool.com]
Sent: 06:17 2016 אוקטובר 27 יום ה

To: Yaron Brunner <Yaron.Brunner@keter.com>; Barton, George <george.barton@milwaukeetool.com>
Subject: Organizer CAD update

Yaron,

We are checking in the most recent CAD and starting our drawings. We noted the only organizer CAD we have is with the old lower Cleats.

Can you forward the most up to dated Organizer CAD.

Regards

Matt Naiva

Project Leader

Hand Tools

Milwaukee Tool

13135 West Lisbon Rd

Brookfield, WI, USA 53005

Mobile: (262) 389-7114

www.MilwaukeeTool.com

To: 'Naiva, Matt'[matt.naiva@milwaukeetool.com]; 'Barton, George'[george.barton@milwaukeetool.com]
From: Yaron Brunner
Sent: Thur 10/27/2016 7:57:24 AM
Importance: Normal
Subject: RE: Organizer CAD update mail 2 out of 2
MAIL_RECEIVED: Thur 10/27/2016 7:56:00 AM
MS-org semi_2016-10-27.zip

;;;;;;;;;;



TOOLS

YARON BRUNNER
VP R&D

Mobile: +972-52-4289271 | Tel: +972-4-9582601| Fax: +972-4-9986175 | yaron.brunner@keter.com

37 Hacharoshet St, Industrial Zone ,P.O.Box 550 Carmiel 20101, Israel

KETER.COM | FACEBOOK | TWITTER

From: Naiva, Matt [mailto:matt.naiva@milwaukeetool.com]
Sent: 06:17 2016 אוקטובר 27 יום ה
To: Yaron Brunner ; Barton, George
Subject: Organizer CAD update

Yaron,

We are checking in the most recent CAD and starting our drawings. We noted the only organizer CAD we have is with the old lower Cleats.

Can you forward the most up to dated Organizer CAD.

Regards

Matt Naiva

Project Leader

Hand Tools

Milwaukee Tool

13135 West Lisbon Rd

Brookfield, WI, USA 53005

Mobile: (262) 389-7114

www.MilwaukeeTool.com

EXHIBIT 4

To: Naiva, Matt[matt.naiva@milwaukeetool.com]; Eliyahu Naim[Eli.Naim@keter.com]; Barton, George[george.barton@milwaukeetool.com]
Cc: Ronen Isaac[Ronen.Isaac@keter.com]
From: Yaron Brunner
Sent: Sun 11/27/2016 3:11:31 AM
Importance: Normal
Subject: RE: Tote Base -Consult
MAIL_RECEIVED: Sun 11/27/2016 3:12:00 AM
MM00036753 MEDIUM BASE_11-24-16_up.zip
tote's trays comments 2016.11.24.ppt

Matt,

Hope that you had a good Holiday.

Please find attached a few comments and one CAD file with the location of the modify we did.

Let me know if everything is clear.

Regards,

TOOLS

YARON BRUNNER
VP R&D

Mobile: +972-52-4289271 | Tel: +972-4-9582601| Fax: +972-4-9986175 | yaron.brunner@keter.com

EXHIBIT 5

Milwaukee

United States
Patent Application Publication
Hoppe et al.

(10) Pub. No.: US 2017/0016252 A1
(43) Pub. Date: Jan. 15, 2017

Appl. No.: 15/375,492
Filed: Dec. 12, 2016

FIG. 1

Keter

Milwaukee

United States
Patent Application Publication
Hoppe et al.

(10) Pub. No.: US 2017/0166352 A1
(43) Pub. Date: Jun. 15, 2017

Appl. No.: 15/375,492
Filed: Dec. 12, 2016

FIG. 2

Keter

Milwaukee

United States
Patent Application Publication
Hoppe et al.

(10) Pub. No.: US 2017/0016232 A1
(43) Pub. Date: Jan. 15, 2017

Appl. No.: 15/375,492
Filed: Dec. 12, 2016

FIG. 3

Keter

Milwaukee

United States
Patent Application Publication
Hoppe et al.

(10) Pub. No.: US 2017/0016232 A1
(43) Pub. Date: Jan. 15, 2017

Appl. No.: 15/375,492
Filed: Dec. 12, 2016

FIG. 4

Keter

Milwaukee

United States
Patent Application Publication
Hoppe et al.

(10) Pub. No.: US 2017/0016232 A1
(43) Pub. Date: Jan. 15, 2017

Appl. No.: 15/375,492
Filed: Dec. 12, 2016

FIG. 5

Keter

Milwaukee

United States
Patent Application Publication
Hoppe et al.

(10) Pub. No.: US 2017/0016352 A1
(43) Pub. Date: Jan. 15, 2017

Appl. No.: 15/375,492
Filed: Dec. 12, 2016

FIG. 6

Keter

Milwaukee

United States
Patent Application Publication
Hoppe et al.

(10) Pub. No.: US 2017/0166352 A1
(43) Pub. Date: Jun. 15, 2017

Appl. No.: 15/375,492
Filed: Dec. 12, 2016

FIG. 11

Keter

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232 | Confirmation No.: 1070

Filed: November 29, 2017 | Art Unit: 3736

For: UTILITY ASSEMBLY AND COUPLING MECHANISM | Examiner: G. R. Weinerth

TRANSMITTAL

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

Dear Commissioner:

On September 6, 2018, Applicants filed a Corrected Application Data Sheet via EFS web to add Grant T. Squiers, Christopher S. Hoppe, and Steven W. Hyma as co-inventors and Milwaukee Electric Tool Corporation as co-applicant of the above-referenced application. Applicants, however, inadvertently failed to submit payment with that filing covering the associated fees.

Applicants therefore submit payment herewith in the amount $740.00 covering the fees set forth in 37 C.F.R. §§ 1.17(d) and (i). The Director is hereby authorized to charge any deficiency in the fees filed herewith, asserted to be filed herewith, or which should have been filed herewith to our Deposit Account No. 50-0311, under Order No. 055390-501C01US.

Dated: October 10, 2018

Respectfully submitted,

Electronic Signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

81929473v.1

Electronic Patent Application Fee Transmittal

Application Number:	15826232
Filing Date:	29-Nov-2017
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Elissa Marie Kingsland
Attorney Docket Number:	55390-501C01US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
CORRECTION OF INVENTORSHIP ON MERITS	1819	1	600	600
		Total in USD ($)		**740**

Electronic Acknowledgement Receipt

EFS ID:	33970187
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	10-OCT-2018
Filing Date:	29-NOV-2017
Time Stamp:	16:19:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$740
RAM confirmation Number	101118INTEFSW00003310500311
Deposit Account	500311
Authorized User	Elissa Kingsland
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	55390-501C01US_Transmittal.pdf	99570 2838c9e469d61b9f84fef8d91c86a0eee9d27593	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32125 12d4105f6752fa3bc5e8a4bb556ca43986307585	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	131695		

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232 | Confirmation No.: 1070

Filed: November 29, 2017 | Art Unit: 3736

For: UTILITY ASSEMBLY AND COUPLING MECHANISM | Examiner: G. R. Weinerth

REQUEST FOR REFUND

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

Dear Commissioner:

On September 6, 2018, Applicants filed a Corrected Application Data Sheet via EFS web to add Grant T. Squiers, Christopher S. Hoppe, and Steven W. Hyma as co-inventors and Milwaukee Electric Tool Corporation as co-applicant of the above-referenced application. With this filing, Applicants inadvertently paid the petition fee set forth in 37 C.F.R. §1.17 (h) in the amount of $140.00.

Applicants therefore inadvertently paid the incorrect fee with the September 6, 2018 filing and respectfully request a refund in the amount of $140.00 covering the fee set forth in 37 C.F.R. § 1.17(h). Please credit this refund to Deposit Account No. 50-0311, referencing Order No. 055390-501C01US.

Dated: October 12, 2018

Respectfully submitted,

Electronic Signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

81924232v.1

Electronic Acknowledgement Receipt

EFS ID:	33990661
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	12-OCT-2018
Filing Date:	29-NOV-2017
Time Stamp:	10:06:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Refund Request	55390-501C01US_Refund_Request.pdf	99401 b8f42e5403d65206dd157293f749030f52e02e20	no	1

Warnings:

Information:	
Total Files Size (in bytes):	99401

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

USPTO
RECEIPTS ACCOUNTING
DIVISION

2018 OCT 12 AM 8:38

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232 | Confirmation No.: 1070

Filed: November 29, 2017 | Art Unit: 3736

For: UTILITY ASSEMBLY AND COUPLING MECHANISM | Examiner: G. R. Weinerth

REQUEST FOR REFUND

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

Dear Commissioner:

On September 6, 2018, Applicants filed a Corrected Application Data Sheet via EFS web to add Grant T. Squiers, Christopher S. Hoppe, and Steven W. Hyma as co-inventors and Milwaukee Electric Tool Corporation as co-applicant of the above-referenced application. With this filing, Applicants inadvertently paid the petition fee set forth in 37 C.F.R. §1.17 (h) in the amount of $140.00.

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Dated: October 12, 2018

Respectfully submitted,

Electronic Signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

81924232v.1

Adjustment date: 10/23/2018 SDIRETA1
09/06/2018 INTEFSW 00012594 500311 15826232
01 FC:1464 140.00 CR

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US

CONFIRMATION NO. 1070

30623
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

37 CFR 1.48 ACKNOWLEDGEMENT LETTER

OC000000103605645

Date Mailed: 11/06/2018

NOTICE OF ACCEPTANCE OF REQUEST UNDER 37 CFR 1.48(a)

This is in response to the applicant's request under 37 CFR 1.48(a) submitted on 09/06/2018.

The request under 37 CFR 1.48(a) to correct the inventorship, to correct or update the name of an inventor, or to correct the order of names of joint inventors is accepted.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/byemane/

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/826,232	11/29/2017	3736	1760	55390-501C01US	20	3

CONFIRMATION NO. 1070

UPDATED FILING RECEIPT

30623
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

OC000000103803644

Date Mailed: 11/06/2018

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Inventor(s)

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

Applicant(s)

KETER PLASTIC LTD., Herzeliya, ISRAEL;

Power of Attorney: The patent practitioners associated with Customer Number 30623

Domestic Priority data as claimed by applicant

This application 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.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 770
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

UTILITY ASSEMBLY AND COUPLING MECHANISM

Preliminary Class

220

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

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

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US

CONFIRMATION NO. 1070

30623
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

IMPROPER CFR REQUEST

OC000000103605782

Date Mailed: 11/06/2018

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The ADS submitted on 09/06/2018 attempts to change the applicant but cannot be entered. Any request to change the applicant once the applicant has been specified must include (1) an application data sheet specifying the new applicant in the Applicant Information section, and (2) a statement under 37 CFR 3.73(c) (USPTO Form PTO/AIA/96 or an equivalent) to show chain of title to the new applicant. The application data sheet must contain markings to show the information that is being changed, with underlining for additions and strike-through or brackets for deletions. See 37 CFR 1.76(c)(2).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/byemane/

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232 Confirmation No.: 1070

Filed: November 29, 2017 Art Unit: 3736

For: UTILITY ASSEMBLY AND COUPLING MECHANISM Examiner: G. R. Weinerth

TRANSMITTAL

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

Dear Commissioner:

In response to the Response to Request For Corrected Filing Receipt mailed November 6, 2018, Applicant submits herewith a corrected Application Data Sheet adding Milwaukee Electric Tool Corporation as co-applicant of the above-referenced application, a first Statement under 37 C.F.R. 3.73(c) showing chain of title to co-applicant Keter Plastic Ltd., and a second Statement under 37 C.F.R. 3.73(c) showing chain of title to co-applicant Milwaukee Electric Tool Corporation. Applicant kindly requests that all pertinent U.S. Patent and Trademark Office records relating to the above-referenced application be changed to reflect the addition of Milwaukee Electric Tool Corporation as co-applicant.

No fees are believed due since the petition fees set forth in 37 CFR §§ 1.17(d) and 1.17(i) were paid on October 12, 2018. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Docket No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: November 7, 2018

Respectfully submitted,

Electronic Signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

82475293v.1

Electronic Acknowledgement Receipt

EFS ID:	34235909
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	07-NOV-2018
Filing Date:	29-NOV-2017
Time Stamp:	16:14:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73	55390-501C01US_Keter-373.pdf	117739 2489cd076b9d9182470a7e838a501807b15c7d35	no	2

Warnings:

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	55390-501C01US_Milwaukee-373.pdf	117763 9c450d4a6f9ebaf0798875df6b509ac6fa88668e	no	2
Warnings:					
Information:					
3	Application Data Sheet	55390-501C01US_Corrected_ADS.pdf	98681 635b187706ec0dbaa3054824fb3444b530213d36	no	4
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
4	Miscellaneous Incoming Letter	55390-501C01US-Transmittal.pdf	99405 4ce7711ebd0425c0a168cb7aa7ac719eb2241c15	no	1
Warnings:					
Information:					
		Total Files Size (in bytes):	433588		

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

New Applications Under 35 U.S.C. 111

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

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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

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PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Keter Plastic Ltd.

Application No./Patent No.: 15/826,232 Filed/Issue Date: November 29, 2017

Titled: UTILITY ASSEMBLY AND COUPLING MECHANISM

Keter Plastic Ltd. (Name of Assignee) , a Corporation (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. [x] The assignee of the entire right, title, and interest.

2. [ ] An assignee of less than the entire right, title, and interest (check applicable box):

   [ ] The extent (by percentage) of its ownership interest is _____ %). Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   [ ] There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

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

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

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

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

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

A. [x] 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 044789 , Frame 0735 , 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.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
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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.

/Elissa M. Kingsland/	2018-11-07
Signature	Date
Elissa M. Kingsland	63,259
Printed or Typed Name	Title or Registration Number

82478769v.1

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Milwaukee Electric Tool Corporation

Application No./Patent No.: 15/826,232 Filed/Issue Date: November 29, 2017

Titled: UTILITY ASSEMBLY AND COUPLING MECHANISM

Milwaukee Electric Tool Corporation (Name of Assignee) , a Corporation (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. [x] The assignee of the entire right, title, and interest.

2. [ ] An assignee of less than the entire right, title, and interest (check applicable box):

   [ ] The extent (by percentage) of its ownership interest is _____ %). Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   [ ] There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

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

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

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

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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. [x] 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 046800 , Frame 0271 , 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.

PTO/AIA/96 (08-12)
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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.

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The document was recorded in the United States Patent and Trademark Office at
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The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Elissa M. Kingsland/	2018-11-07
Signature	Date
Elissa M. Kingsland	63,259
Printed or Typed Name	Title or Registration Number

82480987v.1

Corrected Application Data Sheet

Inventor Information

Inventor Number::	1
Given Name::	Yaron
Family Name::	Brunner
City of Residence::	Kibbutz Gvat
Country of Residence::	IL
Street of mailing address::	Kibbutz Gvat, P.O.B. 248
City of mailing address::	Kibbutz Gvat
Postal or Zip Code of mailing address::	3657900

Inventor Number::	2
Given Name::	Grant
Middle Name::	T.
Family Name::	Squiers
City of Residence::	Cudahy
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	3745 E. Cudahy Avenue
City of mailing address::	Cudahy
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53110

Inventor Number::	3
Given Name::	Christopher

Middle Name::	S.
Family Name::	Hoppe
City of Residence::	Milwaukee
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	3126 S. Burrell Street
City of mailing address::	Milwaukee
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

Inventor Number::	4
Given Name::	Steven
Middle Name::	W.
Family Name::	Hyma
City of Residence::	Milwaukee
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	1312 E. Warnimont Avenue
City of mailing address::	Milwaukee
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

Correspondence Information

Correspondence Customer Number::	30623

E-Mail address::	IPDocketingBOS@mintz.com

Application Information

Application Number::	15/826,232
Filing Date::	11/29/17
Application Type::	Regular
Subject Matter::	Utility
Title::	UTILITY ASSEMBLY AND COUPLING MECHANISM
Attorney Docket Number::	55390-501C01US
Small Entity?::	No

Representative Information

Representative Customer Number::	30623

Applicant Information

Applicant Number::	1
Applicant Type::	Assignee
Organization Name::	Keter Plastic Ltd.
Street of mailing address::	2 Sapir Street, Industrial Zone
City of mailing address::	Herzelyia
Country of mailing address::	IL
Postal or Zip Code of mailing address::	4685206

Applicant Information

Applicant Number::	2
Applicant Type::	Assignee
Organization Name::	Milwaukee Electric Tool Corporation
Street of mailing address::	13135 West Lisbon Road
City of mailing address::	Brookfield
State or Province of mailing address::	WI
Country of mailing address::	US
Postal or Zip Code of mailing address::	53005

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2018-11-07
Name	Elissa M. Kingsland	Registration Number	63,259

82483330v.1

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US

CONFIRMATION NO. 1070

30623
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

IMPROPER CFR REQUEST

OC000000103780379

Date Mailed: 11/16/2018

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

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/byemane/

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Country of Residence::	IL
Street of mailing address::	Kibbutz Gvat, P.O.B. 248
City of mailing address::	Kibbutz Gvat
Postal or Zip Code of mailing address::	3657900

Inventor Number::	2
Given Name::	Grant
Middle Name::	T.
Family Name::	Squiers
City of Residence::	Cudahy
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	3745 E. Cudahy Avenue
City of mailing address::	Cudahy
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53110

Inventor Number::	3
Given Name::	Christopher

Middle Name::	S.
Family Name::	Hoppe
City of Residence::	Milwaukee
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	3126 S. Burrell Street
City of mailing address::	Milwaukee
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

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Given Name::	Steven
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Correspondence Customer Number::	30623

E-Mail address::	IPDocketingBOS@mintz.com

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Country of mailing address::	US
Postal or Zip Code of mailing address::	53005

Signature:

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See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2018-11-20
Name	Elissa M. Kingsland	Registration Number	63,259

82764872v.1

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 789
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Electronic Acknowledgement Receipt

EFS ID:	34363862
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	20-NOV-2018
Filing Date:	29-NOV-2017
Time Stamp:	16:23:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	Corrected_ADS.pdf	96646 b0f4253f30210dde84d7db9f813ef5dd09c025cb	no	4

Warnings:

Information:	
This is not an USPTO supplied ADS fillable form	
Total Files Size (in bytes):	96646

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.

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New International Application Filed with the USPTO as a Receiving Office

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UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

30623 7590 11/28/2018

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	

ART UNIT	PAPER NUMBER
3736	

NOTIFICATION DATE	DELIVERY MODE
11/28/2018	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):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com

PTOL-90A (Rev. 04/07)

Office Action Summary	Application No. 15/826,232	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA Status Yes

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

Period for Reply

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

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 12 September 2018.

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

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

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

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

Disposition of Claims*

5) ☑ Claim(s) 1-2,5-19 and 21-22 is/are pending in the application.

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-2,5-11,13-19 and 21-22 is/are rejected.

8) ☑ Claim(s) 5-6 and 12 is/are objected to.

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

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

11)☑ The drawing(s) filed on 9/12/2018 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 8/3/2018.

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

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Response to Amendment

2. In the Amended Claims of 9/12/2018, Claims 1, 2, 5-19, 21, and 22 are pending. Claims 21 and 22 are new.

Double Patenting

3. Claim 15 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 14. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

4. Claim 7 of this application is patentably indistinct from claim 1 of Application No. 15826201. Although the claims at issue are not identical, they are not patentably distinct from each other because there is only minor differences in wording between the two claims.

This is a provisional nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

Drawings

5. The drawings were received on 8/31/2018 and 9/12/2018. These drawings are accepted.

Claim Rejections - 35 USC § 102

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

6. Claims 1, 2, 5-11, 13-19, 21 and 22 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Madsen (US 2011/0139665).

7. Regarding Claim 1, Madsen discloses a coupling mechanism configured for readily detachably attaching a first utility module to a second utility module, the coupling mechanism comprising: a female coupler(3) at a face of one of the first utility module and the second utility module, the female coupler having a depressed locking location configured with at least one locking rib (15) extending above a depressed surface and along a sliding path, and having an open edge facing in a first direction, wherein the at least one locking rib extends substantially parallel to the sliding path. Madsen also discloses a male coupler (2) at a face of the other one of the first utility module and the second utility module, the male coupler having a projecting locking location disposed in register with the depressed locking location and configured with at least one locking tongue (38) extending along the sliding path at a second direction, opposite to the first direction, and configured for arresting engagement at a space between the locking rib and the depressed surface. Madsen finally discloses at least one locking member (7) for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path (Paragraphs 0009 and 0051). Please see Diagrams 1, 2, and 3 which provide a visual depiction of the analogous components of Madsen as applied to the claim.

8. Regarding Claim 2, Madsen discloses the female coupler is configured at the top face of the first utility module, and wherein the male coupler is configured at the bottom face of the second utility module.

9. Regarding Claim 7, Madsen discloses coupling mechanism for a utility assembly that comprises at least a first utility module and at least a second utility module, the coupling mechanism being 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 includes at least one depressed locking location (3) configured with a locking rib (15), and at least one locking latch arresting location (Channel 16 seen in Figure 3 and shown in Diagram 3 below); and the other one of the top face of the first utility module and a bottom face of the second utility module includes at least one projecting portion (2) with a locking tongue disposed in register with the at least one depressed locking location, and at least one locking latch (7) disposed in register with 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 the at least one locking rib and the at least one locking tongue.

10. Specifically, the downwards activation of locking knob (8) causes the transport lock (7) to move into channel (16). In this sense, channel 16 is a locking latch arresting location and prevents the connecting bridges 2 and 3 from disengaging. Also see Madsen Paragraph 0009 which discusses two vertical houses for locking (columns) are used with a vertical transport lock that can be operated to secure all the top and bottom bridges in gear.

11. Regarding Claim 8, Madsen discloses the at least one locking rib extends substantially parallel to the sliding path.

12. Regarding Claim 9, Madsen discloses a release latch (8) 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. Please note that there is no defined 'front face' and any face may be considered to be 'front' relative to a viewer.

13. Regarding Claim 10, Madsen discloses 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.

14. Regarding Claim 11, Madsen discloses the at least one locking latch (7) is configured for displacement in a direction substantially normal to a respective face of a utility module.

15. Regarding Claim 13, Madsen discloses the locking latch is manipulated (by knob 8) to be opened through an opening configured at a front wall of the respective utility module.

16. Regarding Claims 14 and 15, Madsen discloses one or both of the locking tongue and locking rib are configured with a slanting surface at corresponding orientation along the sliding path.

17. Regarding Claims 16 and 17, Madsen discloses one or both of a front edge of the projecting locking location (at 37) and a corresponding front edge of the depressed locking location (at 41) are slanted for gliding positioning of the second utility module into arrested engagement with the first utility module.

18. Regarding Claims 18 and 19, Madsen discloses the first utility module is configured for detachably attaching one or more second utility modules thereto.

19. Regarding Claims 21 and 22, Madsen discloses at least one locking latch arresting location (vertical housing channel 16) is configured at a top face of one of the first utility module and the second utility module and at least one locking latch (7) configured at a bottom face of the other of the first utility module and the second utility module, such that the at least one locking latch being axially displaceable between a projecting position in which it interlocks with the at least one locking latch arresting location for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path, and a retracted position in which sliding displacement of the first utility module with respect to the second utility module along the sliding path is permitted. See Diagram 2 below.

Allowable Subject Matter

20. Claims 5, 6, and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

21. Applicant's arguments filed 9/12/2018 have been fully considered but they are not persuasive.

22. On Page 11, Applicant argues that Madsen does not disclose or suggest the at least one locking rib extends substantially parallel to the sliding path as recited in Claim 1. The Examiner respectfully disagrees. As shown below in Diagram 4, the locking rib of Madsen is parallel to the sliding path as seen in Madsen Figure 2.

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

Conclusion

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

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

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

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

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

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

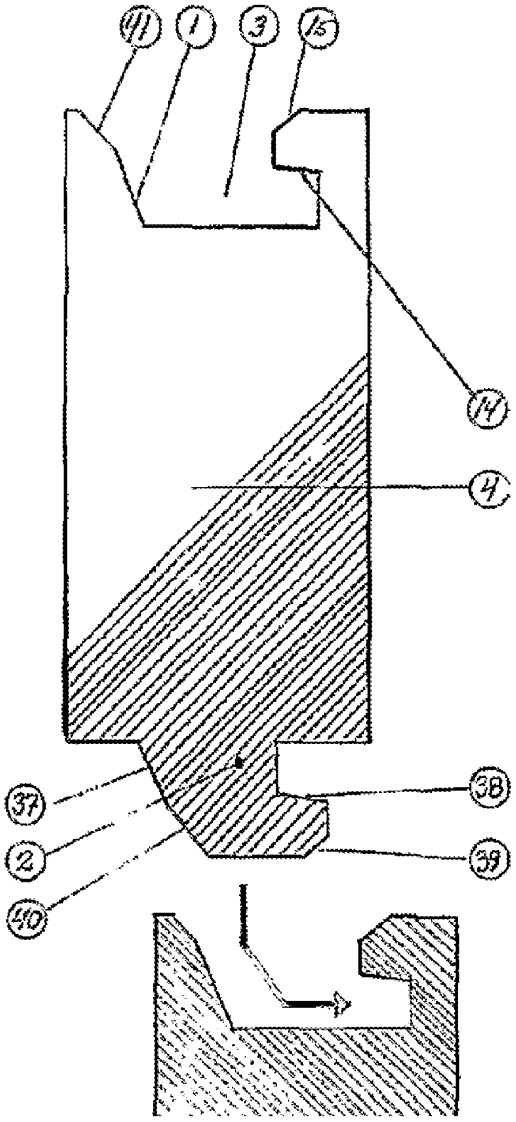


Diagram 1 - Detail from Madsen (US 2011/0139665) Figure 1 showing depressed locking location (3) with rib/catch flange (15) and projecting portion (2) with locking tongue/flange (38)

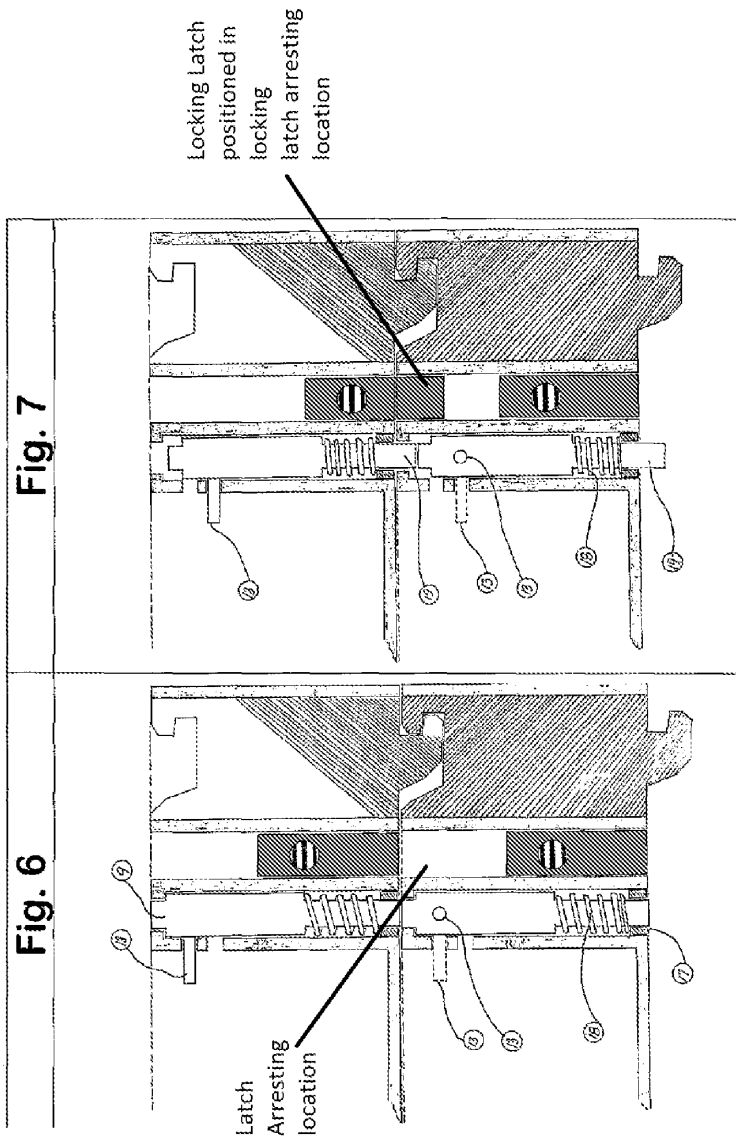


Diagram 2 - Madsen (US 2011/0139665) Figures 6 and 7 showing transport lock (7) moving into recess

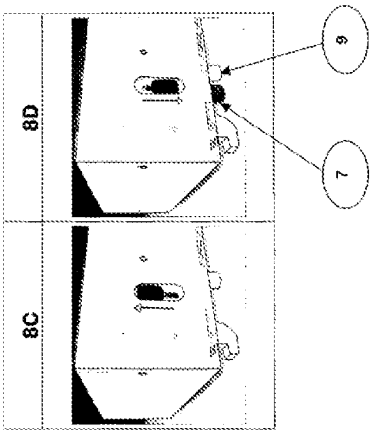


Fig. 4

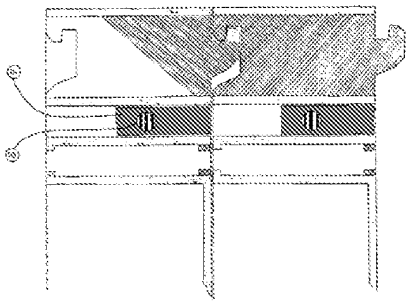


Fig. 3

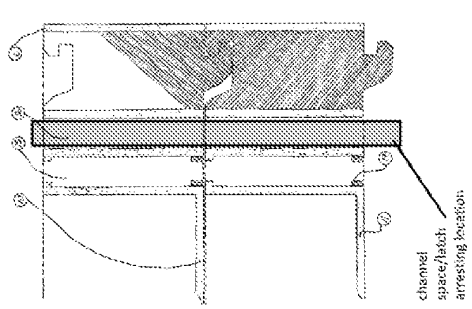


Diagram 3 - Marisen (US 2013/0139661) showing channel (16) in Figure 3 where transport lock (7) can be manipulated by locking knob (8) to extend into the locking latch arresting/set location as seen in Figures 8c and 8d.

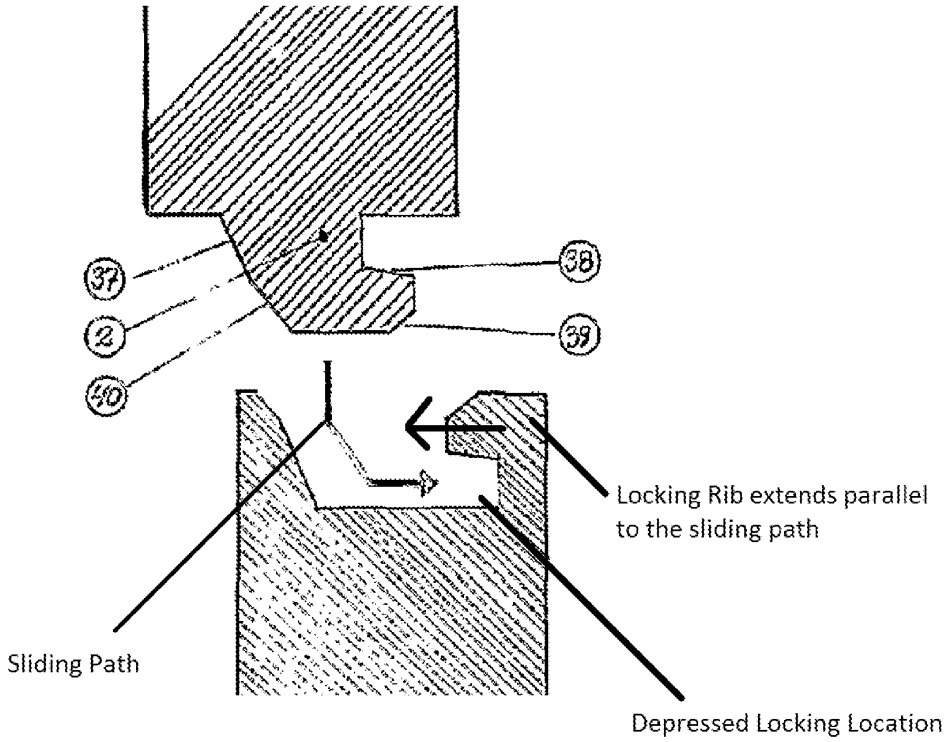


Diagram 4 - Detail from Madsen (US 20110139665) Figure 2 showing Female Coupler as applied to claim limitations of Claim 1.

Notice of References Cited	Application/Control No. 15/826,232	Applicant(s)/Patent Under Reexamination Brunner et al.	
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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20180290288-A1	10-2018	BRUNNER; Yaron	B25H1/04	1/1
*	B	US-20180161975-A1	06-2018	Brunner; Yaron	B62B1/14	1/1
*	C	US-20170239808-A1	08-2017	Hoppe; Christopher S.	A45C7/0045	1/1
*	D	US-20170121056-A1	05-2017	Wang; Tzu-Chien	B65D21/0228	1/1
*	E	US-20080169739-A1	07-2008	Goldenberg; Ruth	B25H3/04	312/244
*	F	US-20080134607-A1	06-2008	Pervan; Darko	E04B5/00	52/395
*	G	US-20080104921-A1	05-2008	Pervan; Darko	E04F15/02	52/588.1
*	H	US-20060038367-A9	02-2006	Ferraro; Frank A.	A47B87/0253	280/47.35
*	I	US-9872562-B2	01-2018	Brunner; Yaron	A47B31/00	1/1
*	J	US-9566990-B2	02-2017	Bar-Erez; Sharon	B25H3/023	1/1
*	K	US-7841144-B2	11-2010	Pervan; Darko	E04F15/02	52/395
*	L	US-6547347-B2	04-2003	Saito; Yoshiyuki	G06F1/184	292/177
*	M	US-5429260-A	07-1995	Vollers; Gary L.	B65D11/10	220/4.33

FOREIGN PATENT DOCUMENTS

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

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

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

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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2430200-A	11-1947	WILSON WINFRED E	E04F13/10	52/536
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FOREIGN PATENT DOCUMENTS

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

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

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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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

CLAIMS

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

CLAIM		DATE								
Final	Original	06/08/2018	11/23/2018							
	1	✓	✓							
	2	✓	✓							
	3	✓	-							
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	21		✓							
	22		✓							

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	Art Unit
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CPC - Searched*		
Symbol	**Date**	**Examiner**
A47B47/00	6/6/2018	GW
A47B67/04	6/6/2018	GW
A47B87/02,007,0276	6/6/2018	GW
B65D21/0224,02,0223,0212,0217,0219,0222,0228,023,	6/6/2018	GW
B65D25/2823,06	6/6/2018	GW
B25H3/021,022,023,04,06	6/6/2018	GW
Y10T403/7045	6/6/2018	GW
A47B87/02	11/23/2018	GW
A47B88/90	11/23/2018	GW
B25H3/02	11/23/2018	GW
B65D21/0204	11/23/2018	GW

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
206	508,511,504,302,501	6/6/2018	GW
280	47.18,47.19,47.26,79.2	6/6/2018	GW
312	107,111	11/23/2018	GW
280	47.26,47.28,652	11/23/2018	GW

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

	/G.W./ Examiner.Art Unit 3728

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	GIDEON R WEINERTH	3736

Search Notes		
Search Notes	Date	Examiner

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

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 19:40
S2	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:41
S3	1	("20100163562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:44
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S9	38	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:01
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			USOCR			
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S13	33	("3145870").URPN.	USPAT	OR	OFF	2018/04/05 20:11
S14	66	("0353600" | "0888611" | "2111884" | "2256024" | "2670892" | "3145870" | "3341053" | "3343670" | "3353665" | "3369658" | "3419176").PN. OR ("3933268").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:12
S15	41	("3933268" | "4303158" | "4383721" | "4592601" | "4733703" | "4768651" | "4782619" | "5203618" | "5244265").PN. OR ("5482162").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:13
S16	26	("2812099" | "2980751" | "3147151" | "3167458" | "3338452" | "3341053" | "3745048" | "3767468" | "3933268" | "3944074" | "4113926").PN. OR ("4339049").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:14
S17	2166	206/508,511,504.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:18
S18	121	206/503.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:19
S19	22	("2807387" | "3182856" | "4724756" | "5083664" | "5375709" | "5445269").PN. OR ("5934466").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:21
S20	3773	280/47.18,47.19,47.26,79.2.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S21	891	280/47.18,47.19,47.26,79.2.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S22	1	("2004/0183266").URPN.	USPAT	OR	OFF	2018/04/05 20:34
S23	2	(("20020014488") or ("4113214") or ("3845968")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 20:35
S24	3	(("20020014488") or ("4113214") or ("3845968")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:35
S25	8	("2002/0014488").URPN.	USPAT	OR	OFF	2018/04/05 20:36
S32	138	S21 and (stack stacked stacking)	US-PGPUB; USPAT;	OR	OFF	2018/04/05 21:01

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			USOCR			
S33	29	("1014475" | "1408400" | "1636682" | "1815825" | "4717168" | "5139278").PN. OR ("5294137").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:03
S34	23	("2606652" | "2677483" | "2736452" | "3258091" | "3308911" | "3376046" | "3401933" | "4066156").PN. OR ("4220343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:08
S35	39	("20020175172" | "20040112906" | "20050051549" | "20090308883" | "20100108556" | "20100140890" | "20110139805" | "20110248458" | "20110278879" | "20120012596" | "20130181419" | "20150040606" | "3117692" | "3376046" | "3999775" | "4091953" | "4093070" | "4220343" | "4828112" | "5011240" | "5069466" | "5287966" | "5427394" | "6520514" | "6964348" | "7086551" | "7134552" | "7544915" | "7950679" | "8322530" | "8360447" | "8465030" | "8596655" | "8690170" | "8777043" | "8936260" | "9205951").PN. OR ("9669930").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:08
S36	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:11
S37	20	B65D21/02.cpc. and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:12
S38	31	("2626025" | "3331529" | "3346137" | "3749273" | "3811747" | "3836043").PN. OR ("4813542").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:13
S39	43	("4545487" | "4813542" | "5617953" | "5864467" | "5949653").PN. OR ("6085925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:14
S40	60	(french adj cleat)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:16
S41	25	("3361293").URPN.	USPAT	OR	OFF	2018/04/05 21:21
S42	32	("2483269" | "3219400" | "3361293" | "3512696" | "3565624" | "3763980" | "4190172" | "4322118" | "4389078" | "4624383" | "4660725" | "5016946" | "5038937" | "5105962" | "5310071" | "6047827" | "6056377" | "6276550" | "D330128" | "D332745").PN. OR ("7152752").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:22
S43	11	("20070145864" | "20100254757" | "20110085853" | "3944282" | "4900090" | "4995176" | "6612078" | "6830236" | "6877824" | "7152752" | "8464408").PN. OR ("9506489").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:23
S44	16	("3469331" | "4716666").PN. OR	US-	OR	OFF	2018/04/05

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		("4995176").URPN.	PGPUB; USPAT; USOCR			21:24
S45	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:25
S46	7	("1849659").URPN.	USPAT	OR	OFF	2018/04/05 21:29
S47	46	("1849659" | "2774511" | "2916293" | "2994457" | "3053397" | "3100582" | "3113680" | "3219232" | "3282458" | "3647112" | "4000817" | "4176747" | "Re26758" | "Re27649").PN. OR ("4550837").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:30
S48	1066	B65D21/0217,0219,0222,0228,023.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:33
S49	92	B65D21/0217,0219,0222,0228,023.cpc. and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:33
S50	0	("2017/0121056").URPN.	USPAT	OR	OFF	2018/04/05 21:37
S51	4	("20110139777" | "5301829" | "5427265" | "8602217").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:37
S52	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:39
S53	2	("2012/0024739").URPN.	USPAT	OR	OFF	2018/04/05 21:43
S54	4	("2011/0168599").URPN.	USPAT	OR	OFF	2018/04/05 21:44
S55	22	("5699925" | "6959507" | "20090139892" | "3182856" | "20030155267" | "20080308641" | "3182856" | "5353948" | "3581928" | "4351448" | "20090178989" | "2634020" | "3387732" | "5755180" | "6761266" | "20050224494" | "7246718" | "5606820" | "20090236255" | "5469961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:45
S56	237	206/501.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:46
S57	2	("2010/0219193").URPN.	USPAT	OR	OFF	2018/04/05 21:50
S58	72	("0879455" | "20040134390" | "20040178208" | "20060254946" | "20060254947" | "20080017650" | "20100219193" | "2695115" | "2849151" | "3103278" | "3117692" | "3383009" | "3391824" | "3407758" | "3419184" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:50

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		"3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3916803" | "3926321" | "3968879" | "4287997" | "4618059" | "4655360" | "4765252" | "4832200" | "4848605" | "4889235" | "5054617" | "5203494" | "5392945" | "5404829" | "5454477" | "5641090" | "5718350" | "5769230" | "5779051" | "5974981" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6371364" | "6446563" | "6457599" | "6585090" | "6622642" | "6662950" | "6698362" | "7163122" | "D236326" | "D333094" | "D361715" | "D446017" | "D500924").PN. OR ("8851287").URPN.				
S59	36	("20020096844" | "4066155" | "4813542" | "5099968" | "5564805" | "5906291" | "D439739").PN. OR ("6585090").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:52
S60	73	("20030029750" | "20030123965" | "20050072642" | "20050077136" | "20060119060" | "20070012694" | "20070068757" | "2497173" | "3061057" | "3452846" | "3532355" | "3572253" | "3650216" | "3861703" | "3891230" | "4081061" | "4118048" | "4122925" | "4350194" | "4621716" | "4657135" | "4693345" | "4738340" | "4792025" | "4813521" | "4951818" | "5038842" | "5048649" | "5109961" | "5142445" | "5178244" | "5186290" | "5197579" | "5339934" | "5373104" | "5379870" | "5407039" | "5447216" | "5484045" | "5484046" | "5632496" | "5713439" | "5890571" | "5927361" | "6073737" | "6116390" | "6164425" | "6213266" | "6401890" | "6520327" | "6585090" | "6634496" | "6758334" | "6976566" | "7077252" | "7232018" | "7380685" | "7398868" | "7726483" | "7780002" | "7942282" | "D294775" | "D453623").PN. OR ("8561769").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:53
S61	44	("20040007574" | "20050036847" | "20050199459" | "20070130731" | "20090178946" | "20120292867" | "3419184" | "3987829" | "4287997" | "4452555" | "5058746" | "5085448" | "5186330" | "5564805" | "5709008" | "5785328" | "6116390" | "6983946" | "7011214" | "7044528" | "7163122" | "7350789" | "7482928" | "7530580" | "7537119" | "7714708" | "7780026" | "7854321" | "7883096" | "7938412" | "8132819" | "8146771" | "8256242" | "8561769" | "8567796" | "D358765" | "D401412" | "D467424" | "D467425" | "D467426" | "RE44656").PN. OR ("9550605").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:59
S62	10	("20050199623" | "5765707" | "5829595" | "6024223" | "7337908").PN. OR ("8146771").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:03

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S63	42	("0621601" | "2761582" | "3113690" | "3616943" | "3643993" | "3823973" | "3828964" | "3977558" | "4000704" | "4042111" | "4416374" | "4678084" | "4887731" | "5011036" | "5022546" | "5105967").PN. OR ("5186330").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:05
S64	74	("0879455" | "2849151" | "3005282" | "3371816" | "3393858" | "3481502").PN. OR ("3616943").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:08
S65	36	("1234730" | "20020145022" | "20030010799" | "20040207225" | "20090212584" | "2578238" | "2883764" | "3002650" | "3131829" | "3351228" | "3374914" | "3616943" | "4754883" | "4838745" | "4941784" | "5025964" | "5392945" | "5469999" | "5538153" | "5671511" | "5676251" | "5687895" | "5855310" | "6471278" | "7159730" | "7329451" | "7537119" | "D264014" | "D333094").PN. OR ("9738198").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:09
S66	75	("0879455" | "20040178208" | "20060254947" | "2695115" | "2849151" | "2939603" | "3103278" | "3117692" | "3383009" | "3391824" | "3419184" | "3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3968879" | "4287997" | "4655360" | "4671411" | "4765252" | "4832200" | "4848605" | "5042674" | "5203494" | "5392945" | "5454477" | "5566824" | "5641090" | "5718350" | "5769230" | "5779051" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6367630" | "6371364" | "6457599" | "6585090" | "6662950" | "7163122" | "D333094" | "D361715" | "D446017" | "D500924").PN. OR ("7537119").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:10
S67	45	("0491865" | "1142932" | "1665238" | "20060016812" | "20070108080" | "20080264820" | "20100084119" | "3144016" | "3259263" | "3369691" | "3384259" | "3828964" | "4109789" | "4655360" | "4760921" | "4901380" | "5086926" | "5203494" | "5461755" | "5564583" | "5671856" | "5699925" | "5769230" | "6024223" | "6085467" | "6186345" | "6237758" | "6273258" | "6457599" | "6715627" | "6840378" | "6851566" | "7510096" | "7537119" | "8056722" | "RE37518").PN. OR ("8813960").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:11
S68	32	("4506798" | "4626155" | "4741449" | "5109985" | "5123541" | "5190179" | "5722328" | "5862917").PN. OR ("6024223").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:12
S69	4	("1665238").URPN.	USPAT	OR	OFF	2018/04/05 22:15
S70	39	("2885135" | "3376046" | "3539071" | "3568879" | "3987829" | "4174950" | "4765252" | "4844263" | "D248015").PN. OR ("D333094").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:17

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S71	53	("2761582" | "3117692" | "3360162" | "3379341" | "3392875" | "3419184" | "3675815" | "3759416" | "3979016" | "4093071" | "4106624" | "4189052" | "4379508").PN. OR ("4832200").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:19
S72	79	("3117692").URPN.	USPAT	OR	OFF	2018/04/05 22:22
S73	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:24
S74	13	("20060186186" | "20070209962" | "20080202976" | "2328689" | "2828059" | "3811566" | "4279354" | "4293071" | "6315126").PN. OR ("8684222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:25
S75	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:26
S76	110	("2457842" | "2483464" | "2664219" | "2702142" | "3073466" | "3130855" | "3140007" | "3586204" | "3828964").PN. OR ("4287997").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:30
S77	63	("2461526" | "3078484" | "3114486" | "3233803" | "3749294" | "3902640" | "3915189" | "4082208" | "4287997" | "4307826" | "4366922" | "4424841" | "4491258" | "4545414" | "4673070" | "4790432" | "4813542" | "4884731" | "5131576" | "5184763" | "5321904" | "5419473").PN. OR ("5628443").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:33
S78	151	("1409838" | "20010040080" | "20020074332" | "20020130005" | "20020185350" | "20030034215" | "20030034636" | "20040000457" | "20040004332" | "20040026199" | "20040074725" | "20040163910" | "20040211634" | "20040238303" | "20050077133" | "20050077706" | "20050098402" | "20050103590" | "20050150733" | "20050258621" | "20050285359" | "20060010644" | "20060086583" | "20060102677" | "20060163305" | "20060175170" | "20060196743" | "20060207848" | "20080060953" | "20080136133" | "20080223679" | "20080236972" | "20080308369" | "20080308370" | "20090057082" | "20090139813" | "20090160147" | "20090218187" | "20100000805" | "20100025174" | "20100095480" | "20100108452" | "20100147642" | "20100263977" | "20100307879" | "20100308563" | "20110247910" | "20120160617" | "20120261223" | "20150091264" | "20160045000" | "2454438" | "2602675" | "3131829" | "3178197" | "3317081" | "3659867" | "3842953" | "3891230" | "3974898" | "4087102" | "4314624" | "4335895" | "4575109" | "4588055" | "4673070" | "4917392" | "4953257" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:34

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		"4969660" | "5072958" | "5105962" | "5127662" | "5263727" | "5310071" | "5348325" | "5533231" | "5628443" | "5630601" | "5749503" | "5803471" | "5815843" | "5873145" | "5984154" | "5984327" | "6016893" | "6042127" | "6047442" | "6141841" | "6179176" | "6182981" | "6186295" | "6196366" | "6196560" | "6213266" | "6213267" | "6237734" | "6260871" | "6279705" | "6289554" | "6305587" | "6360400" | "6367602" | "6401888" | "6401890" | "6409412" | "6454065" | "6471019" | "6474524").PN. OR ("6484362" | "6530507" | "6533086" | "6575493" | "6591950" | "6604617" | "6609271" | "6736073" | "6769701" | "6832670" | "6880685" | "6923352" | "6961976" | "6964420" | "7066311" | "7070190" | "7073694" | "7093700" | "7097181" | "7097183" | "7143912" | "7226073" | "7232018" | "7237660" | "7281616" | "7284304" | "7318507" | "7328779" | "7350648" | "7374183" | "7426985" | "7441785" | "7478803" | "7594569" | "7597341" | "7780026" | "8607947").PN. OR ("9888752").URPN.				
S79	6	("2008/0308369").URPN.	USPAT	OR	OFF	2018/04/05 22:35
S80	45	("0672173" | "1084360" | "20020144376" | "20040084269" | "20040173427" | "20040238241" | "20050077136" | "20050092568" | "20080308369" | "20090095588" | "20090101461" | "20100059322" | "20100170761" | "20100236886" | "20100270116" | "20110168507" | "20130037364" | "20130175129" | "20130213753" | "20130220754" | "2581417" | "4836343" | "5099968" | "5355980" | "5560458" | "5671832" | "5829559" | "5927450" | "5988334" | "6347693" | "6533086" | "6536568" | "7322477" | "7322585" | "7503569" | "7909149" | "8087513" | "D516869" | "D671316").PN. OR ("9027722").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:36
S81	35	("0922567" | "1084360" | "1567461" | "2372845" | "2428906" | "2801666" | "2858957" | "3837447" | "4098312" | "4122925" | "4142563" | "4257463" | "4286639" | "4673070" | "4744446").PN. OR ("4836343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:39
S82	51	("0778785" | "1567461" | "2372845" | "2428906" | "2989998" | "3631572" | "3696850" | "4122925" | "4128194" | "4256245" | "4424841").PN. OR ("4673070").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:40
S83	33	("0842498" | "1689399" | "3114486" | "3698045" | "4231135" | "4673070" | "4799298" | "4934573" | "5205448" | "5259093" | "5465425" | "5604958" | "5632071" | "5724707" | "5815843" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:41

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		"6108816" | "7080430" | "7251867").PN. OR ("7526842").URPN.				
S84	23	("2428906" | "2707035" | "3225951" | "3319744" | "3696850" | "3958731").PN. OR ("4122925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:43
S85	33	("1973819" | "2007696" | "3373911").PN. OR ("4142563").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:46
S86	12	("2858957").URPN.	USPAT	OR	OFF	2018/04/05 22:48
S87	12	("20060071581" | "20080060964" | "2858957" | "3346137" | "3568879" | "4258847" | "4592601" | "4685565" | "4863222" | "7311202").PN. OR ("9724820").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S88	43	("2128854" | "3743372").PN. OR ("4863222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S89	73	("2842420" | "2998128" | "3032381" | "3294463" | "3501044" | "3552817").PN. OR ("3743372").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:51
S90	36	("2011962" | "3514170" | "3552817" | "3743372" | "3851936" | "3999818" | "4198777" | "4238032" | "4353470" | "4589546" | "4744612" | "4782619" | "4874210" | "4907703" | "5046789" | "5137340" | "5176435" | "5191983" | "5344024" | "5399004" | "5454634").PN. OR ("6050657").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:53
S91	17	("3131829" | "3429632" | "3552579" | "3707023" | "4062302" | "4239306" | "5246284").PN. OR ("5454634").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:55
S92	55	("0511617" | "1890000" | "2492697" | "2557630" | "2807387" | "3203744" | "3283915" | "3514170" | "3743372" | "3758181" | "3918781" | "3999818" | "4026615" | "4056295" | "4120549").PN. OR ("4243279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:59
S93	45	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:03
S94	14	("2593998").URPN.	USPAT	OR	OFF	2018/04/05 23:06
S95	52	("4081061" | "4621716" | "5316159" | "6213266" | "6213267" | "7976024" | "1084360" | "3749273" | "4570799" | "4995436" | "5779051" | "D447944" | "3103278" | "3374917" | "5000713" | "6585090" | "5098328" | "D359315" | "20030132184" | "20050199459" | "4813542" | "0480709" | "5062539" | "5186290" | "6276550" | "D346627" | "5310071" | "20040222059" | "3583590" | "3836043" | "4287997" | "4656840" | "5167336" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:14

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		"5392945" | "6257381" | "20040000458" | "4573595" | "7644828" | "D483200" | "7648407" | "3811747" | "20010027902" | "5099968" | "5485920" | "5709304" | "5735422" | "3346137").PN.				
S96	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:16
S97	41	("2454438" | "2495132" | "3131829" | "3194426" | "3297196" | "3317081" | "3343705" | "3404805" | "3851936" | "4192422").PN. OR ("4328902").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:18
S98	43	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:29
S99	11	("0907507" | "1626482" | "2343525" | "3974898" | "4065014").PN. OR ("4423687").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:30
S100	32	("3481502").URPN.	USPAT	OR	OFF	2018/04/05 23:38
S101	8	(("1112943") or ("2255513") or ("2849151") or ("3371816")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:41
S102	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/05 23:41
S103	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:42
S104	21	("1112943").URPN.	USPAT	OR	OFF	2018/04/05 23:43
S105	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 12:32
S106	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 12:33
S107	22	("879455").URPN.	USPAT	OR	OFF	2018/04/06 12:34
S108	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 13:10
S109	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 13:11
S110	37	("3899229" | "4431237" | "4519655" | "4828341" | "4889254" | "5191983").PN. OR ("5469961").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:11
S111	25	("20030155267" | "20050224494" | "20080308641" | "20090139892" | "20090178989" | "20090236255" | "2634020" | "3182856" | "3387732" | "3581928" | "4351448" | "5353948" | "5469961" | "5606820" | "5699925" | "5755180" | "6761266" | "6959507" | "7246718").PN. OR ("8677661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:12
S112	24	("1226708" | "2833137" | "2834121" | "2843943" | "3139744" | "3220229" | "3545235" | "3824813" | "4507942" | "4551996" | "4663948" | "4680948" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:13

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
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		"4821535" | "4972687" | "4989426" | "5469961" | "5653416").PN. OR ("5951130").URPN.				
S113	118	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$).did. or (US-3117692-$ or US-2593998-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:03
S115	286	B65D21/0223.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05
S116	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05

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S117	2198	B25H3/021,022,023,04,06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:07
S118	436	A47B47/00.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S119	1076	A47B87/02,007,0276.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S120	550	A47B67/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:11
S121	770	Y10T403/7045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:12
S122	9	("7451578" | "6209278" | "4599841" | "6363677" | "6955020" | "7040068" | "6588166" | "6804926" | "6658808").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:14
S123	102	("0890436" | "2740167" | "3310919" | "3988187" | "5295341" | "5630304" | "6023907" | "1854396" | "2381469" | "20030029116" | "3040388" | "3192574" | "3347048" | "3526420" | "4599841" | "6098365" | "5899038" | "20020112433" | "20030029115" | "2381469" | "3673751" | "4599841" | "4819932" | "5086599" | "5363616" | "6029416" | "6216409" | "6324809" | "6546691" | "6606834" | "6647690" | "20030029115" | "3902291" | "5295341" | "5630304" | "6421970" | "6763643" | "0753791" | "20030029116" | "2430200" | "3579941" | "5283102" | "6209278" | "6647690" | "6854235" | "20030024201" | "3579941" | "3673751" | "4426820" | "4741136" | "5860267" | "6023907" | "6122879" | "6769835" | "0338653" | "1776188" | "1854396" | "20030024201" | "3172508" | "3175476" | "3902291" | "4094090" | "5706621" | "6122879" | "6397548" | "2740167" | "20020112433" | "3175476" | "4416097" | "5797237" | "6029416" | "6182410" | "6397548" | "0890436" | "0623562" | "3040388" | "3192574" | "3347048" | "4426820" | "5860267" | "6098365" | "6490836" | "20050210810" | "3310919" | "4819932" | "5086599" | "5283102" | "6006486" | "6101778" | "6209278" | "6324809" | "3720027" | "20020170258" | "4416097" | "4807416" | "5165816" | "5618602" | "6094882" | "6101778" | "6182410" | "6513862" | "20020170258" | "20030024200" | "3657852" | "3988187" | "5165816" | "6094882" | "6591568" | "5274979" | "6772568" | "3200553" | "3657852" | "4741136" | "4819532" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:15

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		"5797237" | "6006486" | "6505452" | "6591568" | "6854235" | "4094090" | "5363616" | "5618602" | "6513862" | "6606834" | "5548937" | "6880307" | "7065935" | "20030024200" | "2138085" | "2142305" | "3526420" | "5348778" | "20050210810" | "1776188" | "2138085" | "2142305" | "2430200" | "3172508" | "0338653" | "5706621" | "6490836" | "6504552" | "6546691" | "5274979" | "1723306").PN.				
S124	373	("2740167").URPN.	USPAT	OR	OFF	2018/04/06 18:16
S125	477	("0087853" | "0108068" | "0124228" | "0213740" | "0274354" | "0316176" | "0634581" | "0861911" | "1194636" | "1723306" | "1743492" | "1809393" | "1902716" | "20010024707" | "20020031646" | "20020069611" | "20020092263" | "20020170258" | "20020170259" | "20020178674" | "20020178680" | "20020189190" | "20020194807" | "20030009971" | "20030024199" | "20030037504" | "20030084636" | "20030094230" | "20030101681" | "20030145549" | "20030180091" | "20030188504" | "20030196405" | "20040016196" | "20040031227" | "20040049999" | "20040060255" | "20040068954" | "20040123548" | "20040128934" | "20040139676" | "20040139678" | "20040159066" | "20040168392" | "20040177584" | "20040182033" | "20040182036" | "20040200175" | "20040211143" | "20040244325" | "20040250492" | "20040261348" | "20050003132" | "20050028474" | "20050050827" | "20050160694" | "20050166514" | "20050205161" | "20050210810" | "20050235593" | "20050252130" | "20050268570" | "20060053724" | "20060070333" | "20060101769" | "20060156670" | "20060174577" | "20060179754" | "20060236642" | "20060260254" | "20060272262" | "20070006543" | "20070011981" | "20070028547" | "20070065293" | "20070175156" | "20070193178" | "20080000182" | "20080000186" | "20080000187" | "20080005998" | "20080010931" | "20080010937" | "20080028707" | "20080034708" | "20080041008" | "20080066415" | "20080104921" | "20080110125" | "20080134607" | "20080134613" | "20080134614" | "20080155930" | "20080216434" | "20080216920" | "20080295432" | "20090133353").PN. OR ("20090193748" | "20100293879" | "20100300031" | "20100319290" | "20100319291" | "20110030303" | "20110041996" | "20110088344" | "20110088345" | "20110088346" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:17

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IPR2024-01400

		"20110154763" | "20110167750" |						
		"20110225922" | "20110252733" |						
		"20110283650" | "20120017533" |						
		"20120031029" | "20120036804" |						
		"20120151865" | "20120174515" |						
		"20120174520" | "20120279161" |						
		"20130008117" | "20130014463" |						
		"20130019555" | "20130042562" |						
		"20130042563" | "20130042564" |						
		"20130042565" | "20130047536" |						
		"20130081349" | "20130111845" |						
		"20130145708" | "20130160391" |						
		"20130232905" | "20130239508" |						
		"20130263454" | "20130263547" |						
		"20130318906" | "20140007539" |						
		"20140020324" | "20140033634" |						
		"20140053497" | "20140059966" |						
		"20140069043" | "20140090335" |						
		"20140109501" | "20140109506" |						
		"20140123586" | "20140150369" |						
		"20140190112" | "20140208677" |						
		"20140223852" | "20140237931" |						
		"20140250813" | "20140260060" |						
		"20140305065" | "20140366476" |						
		"20140373478" | "20140373480" |						
		"20150000221" | "20150013260" |						
		"20150059281" | "20150089896" |						
		"20150121796" | "20150152644" |						
		"20150167318" | "20150211239" |						
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		"20160251860" | "20160281368" |						
		"20160281370" | "20160340913" |						
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		"2266464" | "2277758" | "2430200" |						
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		"2858584" | "2863185" | "2865058" |						
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		"3526071" | "3535844" | "3572224" |						
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		"3760548" | "3778954" | "3849235" |						
		"3919820" | "3950915" | "3994609" |						
		"4007994" | "4030852" | "4037377" |						
		"4041665" | "4064571" | "4080086" |						
		"4082129" | "4100710" | "4104840" |						
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		"5344700" | "5348778" | "5373674" |						

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		"5465546" | "5485702" | "5502939" | "5548937" | "5577357" | "5598682" | "5618602" | "5634309" | "5658086" | "5694730" | "5755068" | "5860267" | "5899038" | "5910084" | "5950389" | "5970675" | "6006486" | "6029416" | "6052960" | "6065262" | "6173548" | "6182410" | "6203653" | "6254301" | "6295779" | "6314701" | "6332733" | "6339908" | "6345481" | "6358352" | "6363677" | "6385936" | "6418683" | "6446413" | "6449918" | "6450235" | "6490836" | "6505452" | "6546691" | "6553724" | "6576079" | "6584747" | "6591568" | "6601359" | "6617009" | "6647689" | "6647690" | "6651400" | "6670019" | "6681820" | "6684592" | "6685391" | "6729091" | "6763643" | "6766622" | "6769219" | "6769835").PN. OR ("6802166" | "6804926" | "6808777" | "6854235" | "6862857" | "6865855" | "6874291" | "6880307" | "6948716" | "7021019" | "7040068" | "7051486" | "7108031" | "7121058" | "7152383" | "7188456" | "7219392" | "7251916" | "7337588" | "7377081" | "7451578" | "7454875" | "7516588" | "7517427" | "7533500" | "7556849" | "7568322" | "7584583" | "7614197" | "7617651" | "7634884" | "7637068" | "7644553" | "7677005" | "7716889" | "7721503" | "7757452" | "7802411" | "7806624" | "7841144" | "7841145" | "7841150" | "7856789" | "7861482" | "7866110" | "7908815" | "7908816" | "7930862" | "7954295" | "7980041" | "8006458" | "8033074" | "8042311" | "8061104" | "8079196" | "8112967" | "8171692" | "8181416" | "8234830" | "8245478" | "8341914" | "8341915" | "8353140" | "8359805" | "8381477" | "8387327" | "8448402" | "8499521" | "8505257" | "8511031" | "8528289" | "8544230" | "8544234" | "8572922" | "8578675" | "8596013" | "8627862" | "8640424" | "8650826" | "8677714" | "8689512" | "8701368" | "8707650" | "8713886" | "8733065" | "8733410" | "8763341" | "8769905" | "8776473" | "8844236" | "8857126" | "8869485" | "8898988" | "8925274" | "8959866" | "8973331" | "9027306" | "9051738" | "9068360" | "9091077" | "9194134" | "9212492" | "9216541" | "9238917" | "9284737" | "9309679" | "9316002" | "9340974" | "9347469" | "9359774" | "9366036" | "9376821" | "9382716" | "9388584" | "9428919" | "9453347" | "9458634" | "9482012" | "9540826" | "9663940" | "RE30154").PN. OR ("9803375").URPN.				
S126	100	("2732706").URPN.	USPAT	OR	OFF	2018/04/06 18:21
S127	16	(("1351133") or ("1459189") or ("1465421") or ("1652421") or ("1652305") or	USPAT; USOCR	OR	OFF	2018/04/06 18:22

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		("1667160") or ("2201110") or ("2460330")).PN.				
S128	6	(("0935402") or ("1925070") or ("2453918")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 18:23
S129	3	("3351366").URPN.	USPAT	OR	OFF	2018/04/06 18:39
S130	51	("1575270" | "20020170933" | "20030141329" | "20050247653" | "20060237509" | "20080142462" | "20080179370" | "20080185353" | "20090145789" | "20090145866" | "20140075650" | "20170266804" | "2290468" | "2546720" | "2763377" | "2964196" | "3145031" | "3536286" | "4264013" | "4923202" | "4932576" | "5395023" | "5511705" | "5722576" | "5881891" | "5971242" | "6213365" | "6666465" | "6698632" | "6874624" | "7090075" | "7322482" | "7686196" | "7699197" | "7726495" | "7762440" | "8267260" | "8510868" | "9038869" | "D163637" | "D165553" | "D328681").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:42
S131	18	("2715966" | "20050247653" | "4771897" | "5429252" | "5740927" | "5845792" | "5915573" | "6152312" | "6267338" | "6435357" | "6564949" | "6581788" | "6698603" | "6871749" | "7014052" | "7028854" | "7117998").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:43
S132	7	("20100314271" | "8991599" | "5799787" | "7686180" | "8695795" | "8991599" | "20100314271" | "5797508" | "3862689").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:46
S133	2	("20080236562" | "7723655").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:47
S134	6	(matthew near3 vargo).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S135	75	(Hoppe near2 Christopher).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S136	14	B65D25/2823.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S137	351	B65D25/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S138	73	(Milwaukee adj Electric).as. and (stack box)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:01
S139	8	(Milwaukee adj Electric).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02

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S140	8	(Milwaukee and tool).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02
S141	84	(Milwaukee and tool).as. and latch	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:03
S142	37	(Milwaukee and tool).as. and (stack stacked stacking)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04
S143	629	("1275862" | "20010022257" | "20020008125" | "20020014507" | "20020017752" | "20020043534" | "20020074332" | "20020084159" | "20020125160" | "20020162716" | "20020163284" | "20030034636" | "20030042091" | "20030042093" | "20030075468" | "20030132080" | "20030151218" | "20040004332" | "20040026199" | "20040026294" | "20040036240" | "20040108179" | "20040112777" | "20040144606" | "20040154889" | "20040163910" | "20040188201" | "20040188205" | "20040195791" | "20040206431" | "20040245735" | "20050023096" | "20050056511" | "20050109650" | "20050121275" | "20050121868" | "20050194756" | "20050224305" | "20050279123" | "20060017293" | "20060124505" | "20060144732" | "20060151967" | "20060196744" | "20060201834" | "20060213735" | "20070045370" | "20070045974" | "20070051765" | "20070074941" | "20070137960" | "20070164064" | "20070170671" | "20070194543" | "20070200309" | "20070215425" | "20070241113" | "20070267371" | "20070290466" | "20080017463" | "20080017537" | "20080035508" | "20080035510" | "20080067206" | "20080135364" | "20080135366" | "20080136130" | "20080152944" | "20080164842" | "20080169739" | "20080217130" | "20080230416" | "20090014974" | "20090080809" | "20090139813" | "20090166141" | "20090211932" | "20090212536" | "20090236810" | "20090250365" | "20090301833" | "20100000805" | "20100012538" | "20100012655" | "20100033325" | "20100101908" | "20100108451" | "20100108452" | "20100175960" | "20100224527" | "20100258465" | "20100320245" | "20110067967" | "20110084075").PN. OR ("20110094910" | "20110121695" | "20110132046" | "20110155526" | "20110174648" | "20110214957" | "20110268374" | "20120018330" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04

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		"20130007979" | "20130008753" |					
		"20130099648" | "20130161143" |					
		"20130186795" | "20130233660" |					
		"20130240314" | "20130284553" |					
		"20130292221" | "20130327608" |					
		"20140021232" | "20140027227" |					
		"20140102928" | "20140166414" |					
		"20140166516" | "20140197059" |					
		"20140311844" | "20140326562" |					
		"20140353104" | "20150047941" |					
		"20150060221" | "20150102573" |					
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		"5833039" | "5833095" | "5836497" | "5862898" | "5865281" | "5890570" | "5893495" | "5915553" | "5915554" | "5924533" | "5927837" | "5934425" | "5941437" | "5943936" | "5967270" | "5971101" | "5992588" | "5997116" | "6006906" | "6015064" | "6038747" | "6050374" | "6062357" | "6073766" | "6073944" | "6076666" | "6081695" | "6082538" | "6098768" | "6102172" | "6109403" | "6129254" | "6167680" | "6167994" | "6176559" | "6179185" | "6182981" | "6186295" | "6203075" | "6206063" | "6213296" | "6227339" | "6230887" | "6244485" | "6244486" | "6289554" | "6301746" | "6305514" | "6318713" | "6328320" | "6343708" | "6343815" | "6347847" | "6357567").PN. OR ("6367603" | "6371320" | "6371346" | "6390348" | "6405864" | "6408996" | "6415924" | "6435389" | "6443274" | "6446988" | "6460668" | "6471019" | "6474665" | "6478463" | "6484362" | "6502882" | "6505843" | "6520514" | "6527309" | "6530507" | "6533138" | "6550651" | "6561327" | "6561402" | "6571998" | "6578708" | "6595334" | "6614337" | "6622856" | "6637562" | "6666363" | "6675965" | "6675967" | "6688614" | "6692011" | "6695142" | "6698609" | "6722524" | "6736265" | "6739150" | "6742684" | "6755302" | "6755448" | "6758534" | "6761366" | "6789670" | "6820878" | "6840359" | "6860059" | "6910560" | "6915902" | "6923352" | "6926129" | "6938740" | "6938741" | "6948724" | "6955381" | "6976566" | "6978890" | "7004481" | "7008031" | "7021637" | "7036641" | "7048133" | "7066311" | "7073694" | "7104555" | "7108131" | "7111853" | "7117991" | "7121407" | "7144020" | "7147089" | "7158376" | "7168713" | "7201243" | "7225923" | "7228983" | "7237673" | "7237688" | "7240909" | "7246704" | "7270223" | "7296808" | "7316309" | "7318542" | "7322470" | "7322583" | "7326428" | "7331454" | "7334680" | "7357250" | "7357268" | "7367451" | "7370891" | "7374183" | "7387304" | "7387305" | "7387350" | "7389997" | "7401698" | "7401700" | "7416066" | "7418846" | "7438084" | "7438308" | "7458601" | "7461730" | "7467695" | "7478711" | "7500547" | "7503439" | "7503440" | "7503569" | "7516502" | "7540364" | "7552560" | "7552950" | "7571915" | "7581736" | "7591627" | "7594569" | "7597341" | "7600618" | "7600640").PN. OR ("7631380" | "7661530" | "7661683" | "7780051" | "7823991" | "7837053" | "7837206" | "7845653" | "7850020" | "7854321" | "7874328" | "7883096" | "7938412" |				

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S144	325	B65D21/0212.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:09
S145	27	("4212415" | "4664283" | "4823955" | "4896926" | "5246105").PN. OR ("5544751").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:11
S146	44	("1699130" | "2072672" | "2551814" | "2633285" | "2736487" | "3010638" | "3361322" | "3623650" | "3632037" | "3713579" | "3905478" | "3905541" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:12

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		"3921896" | "4002261" | "4023617" | "4187977" | "4230233" | "4245773" | "4251006" | "4277015" | "4291830" | "4389013" | "4482074" | "4643314" | "4685610" | "4762270" | "4763833" | "4828894" | "4884739" | "4911356" | "4948039" | "4993623" | "5038998" | "5116290" | "5190213").PN. OR ("5429260").URPN.				
S147	0	("1140005").URPN.	USPAT	OR	OFF	2018/04/06 19:30
S148	119	("1267650" | "1999162" | "3163268" | "3379482" | "3419184" | "3425471" | "3498689" | "3642168" | "3700137" | "3979016" | "3987829" | "4161261" | "4293073" | "4303158" | "4523692" | "4664347" | "4799503" | "4804092" | "4819795" | "4915913" | "4982863" | "4984687" | "5011013" | "5024471" | "5040834" | "5042674" | "5065885" | "5065887" | "5080250" | "5103994" | "5117979" | "5123564" | "5176281" | "5186330" | "5190152" | "5193706" | "5244265" | "5319937" | "D237135" | "D237611" | "D238148" | "D239695" | "D246872" | "D248280" | "D257934" | "D258721" | "D277797" | "D286937" | "D292711" | "D302774" | "D312573" | "D316516" | "D319016" | "D321090" | "D321091" | "D322164" | "D325323" | "D325324" | "D326775" | "D326815" | "D327646" | "D328425" | "D328818" | "D328819" | "D329331" | "D329747" | "D330161" | "D330162" | "D330329" | "D331317" | "D335960" | "D336366" | "D339471" | "D342364").PN. OR ("5564805").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 20:05
S149	62	("0198092" | "0564782" | "1063046" | "1268124" | "1740470" | "1987822" | "2011197" | "2094805" | "2122969" | "2504722" | "2759507" | "2786500" | "2791251" | "2799306" | "3018355" | "3615087" | "3746210" | "3851756" | "4061323" | "4239195" | "4256294" | "4278243" | "4303158" | "4378828" | "4460085" | "4909491" | "4911296" | "5011013" | "5117979" | "5193706" | "D253212" | "D263533" | "D288867").PN. OR ("5595228").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:03
S150	15	("2587829" | "2610761" | "2740517" | "4252239" | "4733703" | "5329929" | "5595228").PN. OR ("6206063").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:04
S151	6	("4466659" | "4967944" | "5207470" | "6193118" | "6554169" | "7000810").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S152	96	("1032326" | "1503894" | "1926162" | "2612200" | "2629644" | "2724595" | "2735597" | "2754079" | "2979190" | "3229946" | "3640423" | "3642168" | "3664704" | "3727971" | "3759416" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38

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		"3791547" | "3854621" | "3940009" | "3987829" | "4190281" | "4213539" | "4215896" | "4288011" | "4403786" | "4458570" | "4488669" | "4499998" | "4522326" | "4531774" | "4580827" | "4593816" | "4623071" | "4674665" | "D259413" | "D285673").PN. OR ("4967944").URPN.				
S153	25	("2967080" | "2987358" | "4844305" | "4967944" | "5419476" | "5667115").PN. OR ("5988473").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:40
S154	10	("2987358").URPN.	USPAT	OR	OFF	2018/04/07 00:41
S155	4	("2009/0315285").URPN.	USPAT	OR	OFF	2018/04/07 00:46
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S158	31	("0783059" | "2878928" | "3245528" | "3319685" | "3386607" | "3605374" | "3835992" | "3992810" | "4320846" | "4627595" | "4799590" | "4890741" | "5135823" | "5370255").PN. OR ("5676274").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:50
S159	26	("1101357" | "1149266" | "1862868" | "2702116" | "3145871" | "4154362" | "4503955" | "4705316" | "4896926" | "4998616").PN. OR ("5415255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:53
S160	37	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:55
S161	6	("3412888" | "4204609" | "5409126" | "5499715" | "5769229").PN. OR ("6467681").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 17:17
S162	173	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:25

		$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$ or US-20080104921-$ or US-20160153200-$ or US-20080134613-$ or US-20080134607-$ or US-20070193178-$ or US-20170266804-$ or US-20140075650-$ or US-20090145866-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160023349-$ or US-20140166516-$ or US-20120326406-$ or US-20110121695-$ or US-20070194543-$ or US-20070170671-$ or US-20110049824-$ or US-20130056378-$ or US-20120312812-$ or US-20120187013-$ or US-20120080432-$ or US-20120061930-$ or US-20050280228-$).did. or (US-20060027475-$ or US-20050155889-$ or US-20160168880-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$ or US-7451578-$ or US-6122879-$ or US-3526420-$ or US-2740167-$ or US-9803375-$ or US-9663940-$ or US-7841144-$ or US-9616562-$ or US-5544751-$ or US-5429260-$ or US-7946609-$ or US-6578708-$ or US-6176559-$ or US-5927837-$ or US-5564805-$ or US-5595228-$ or US-6206063-$ or US-7000810-$ or US-4967944-$ or US-5988473-$).did. or (US-6641013-$ or US-2987358-$ or US-4576423-$ or US-4756394-$ or US-4896926-$ or US-5325966-$ or US-5697500-$ or US-6467681-$).did. or (US-3117692-$ or US-2593998-$).did.				

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S163	3	(("20170166352") or ("20110139665") or ("5628443")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:26
S164	28	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/04/09 01:36
S165	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S166	27	S164 not S165	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S167	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/21 18:13
S168	56	("1932429" | "20060016811" | "20060070906" | "20060237341" | "20070080089" | "20080110190" | "20080112782" | "20080121253" | "20080128414" | "20090178989" | "20090184021" | "20110139665" | "2178091" | "2259041" | "5271515" | "5429260" | "5531517" | "5544751" | "5549241" | "5860527" | "6062388" | "6581772" | "6880705" | "6991106" | "7044483" | "7063210" | "7516854" | "7661549" | "8342329" | "8640871" | "8973811" | "8997993" | "9056694" | "9101212" | "D277532" | "D277723" | "D277819" | "D347130" | "D385306" | "D406478" | "D470641" | "D529755" | "D538571" | "D543030" | "D589723" | "D590021" | "D645902" | "D654726" | "D664034" | "D689718" | "D709716" | "D773217" | "D781625").PN. OR ("D815471").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:13
S169	5	(("20160144500") or ("0784114") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:16
S170	4	(("20160144500") or ("7841144") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17
S171	554	("0124228" | "0213740" | "0714987" | "0753791" | "1124228" | "1194636" | "1371856" | "1407679" | "1454250" | "1468288" | "1477813" | "1510924" | "1540128" | "1575821" | "1602256" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17

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		"5117603"	"5148850"	"5165816"				
		"5179812"	"5182892"	"5216861"				
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		"5502939"	"5540025"	"5560569"				
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		"5630304"	"5634309"	"5653099"				
		"5671575"	"5695875"	"5706621"				
		"5755068"	"5768850"	"5797237"				
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		"5987839"	"6006486"	"6023907"				
		"6029416"	"6052960"	"6094882"				
		"6101778"	"6119423"	"6134854"				
		"6148884"	"6173548"	"6182410"				
		"6203653"	"6205639"	"6209278"				
		"6216403"	"6216409"	"6247285"				
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		"6339908"	"6345481"	"6358842"				
		"6363677"	"6385936"	"6397547"				
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S174	1351	E04F2201/0146,023,05.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:26
S175	514	B25H3/02.cpc.	USPAT	OR	OFF	2018/11/21 18:45
S176	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S177	165	B25H3/021.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S178	0	("2018/0213934").URPN.	USPAT	OR	OFF	2018/11/21 18:46
S179	369	A47B88/90.cpc.	USPAT	OR	OFF	2018/11/21 18:46
S180	81	A47B2210/19.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:47
S181	29	("2614016" | "2676080" | "3001564" | "3079037" | "3974898" | "4040538" | "4119204" | "4239309" | "4287997" | "4293072" | "4865404" | "5190156").PN. OR ("5407074").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:50
S182	27	("0224486" | "1472676" | "2975930" | "3159436" | "3424334" | "3506321" | "3584738" | "3737031" | "4155452").PN. OR ("4293072").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:51
S183	48	("3506321").URPN.	USPAT	OR	OFF	2018/11/21 18:54
S184	46	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:56
S185	520	B65D21/0204.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:01
S186	868	A47B87/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S187	2232	312/107,111.ccls.	US-	OR	OFF	2018/11/21

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			PGPUB; USPAT; USOCR			19:02
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S189	50	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:23
S190	34	("0455883" | "0484121" | "0918297" | "20060175945" | "20100052276" | "20110279956" | "20120086319" | "20130134850" | "2341434" | "2431830" | "2441728" | "3058320" | "3135570" | "3326203" | "3712697" | "4590709" | "5011240" | "5026130" | "5048902" | "5145245" | "5673984" | "6068356" | "6164738" | "8201900" | "D322875").PN. OR ("9872562").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:24
S191	45	("1223455" | "2123803" | "2704699" | "3272581" | "3316045" | "3796474" | "4155611" | "4505526" | "4577773" | "4848588" | "5205595" | "5246105" | "5299688" | "5344226" | "5358321" | "5426885").PN. OR ("5603559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:27
S192	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" | "3758181").PN. OR ("5246105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:28
S193	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:02
S194	75	("0440957" | "1933637" | "2511949" | "2789828" | "2981549" | "3055723" | "3349924" | "3379482" | "3891230" | "3905662").PN. OR ("4118048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:03
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S197	143	("0344661" | "0687619" | "1424819" | "20010052681" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" | "20040265104" | "20050062244" | "20050104308" | "20050258610" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05

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		"20050275178" | "20060006619" | "20060012139" | "20060038367" | "20070080512" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090096181" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140023221" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3393951" | "3734526" | "3804432" | "3891230" | "3990653" | "4169607" | "4363496" | "4448434" | "4619363" | "4884689" | "4936594" | "4984704" | "5104135" | "5123666" | "5207723" | "5333885" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" | "5626352" | "5634649" | "5720535" | "5799958" | "5845915" | "5906381" | "5913527" | "5931483" | "5934466" | "5938396" | "6000713" | "6050660" | "6079719" | "6082539" | "6109627" | "6113129" | "6123344" | "6131926" | "6135466" | "6176559" | "6254112" | "6347847" | "6357063" | "6371320" | "6394471" | "6398235" | "6474930" | "6561528" | "6601930" | "6616152" | "6659476" | "6666465" | "6874634" | "6889838" | "6945546" | "7063339" | "7066475" | "7108131" | "7168715" | "7188846" | "7188847" | "7210689" | "7263742" | "7328905" | "7367571" | "7500681").PN. OR ("7503569" | "7686260" | "7703776" | "7819407" | "7823893" | "7845653" | "7883096" | "7905502" | "7938412" | "8132819" | "8226092" | "8567796" | "8657307" | "8668209" | "9132543" | "D437484" | "D542496" | "D640869" | "D653832" | "D654241").PN. OR ("9566990").URPN.				
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S202	1975	280/47.26,47.28.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S203	518	280/652.ccls.	US-PGPUB;	OR	OFF	2018/11/21 20:10

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			USPAT; USOCR			
S204	1	"15826201"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 00:33
S205	12	(US-0271616-$ | US-0320243-$ | US-1276744-$ | US-1477050-$ | US-15826201-$ | US-20080308369-$ | US-3616562-$ | US-3875888-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:39
S206	2	(("8875888") or ("9616562") or ("20080308369")).PN.	USPAT; USOCR	OR	OFF	2018/11/22 03:40
S207	3	(("8875888") or ("9616562") or ("20080308369")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:40
S208	64	("20020113387" | "20070194543" | "20080079227" | "20080084036" | "20110049824" | "3522955" | "4118048" | "4119044" | "4281843" | "5176281" | "5193706" | "5244265" | "5378005" | "5634649" | "5641170" | "5680932" | "5799958" | "5906381" | "5938396" | "5950828" | "6131926" | "6170839" | "6176559" | "6264220" | "6347847" | "6371320" | "6601930" | "6761366" | "6817623" | "7367571" | "7467801" | "7503569" | "7628406" | "7845653" | "7883096" | "7938412" | "D404916" | "D437484" | "D462168" | "D462170").PN. OR ("8132819").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:37
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S216	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/23 01:36
S217	20	("2807387" | "20060220503" | "3219400" | "3424334" | "4293072" | "4643494" | "4782619" | "4996628" | "5184726" | "5246105" | "5427394" | "5544751" | "5699925" | "5901998" | "5924778" | "6367631" | "6983946").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:37
S218	36	("1253546" | "1619761" | "1857640" |	US-	OR	OFF	2018/11/23

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IPR2024-01400

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S219	13	("3379482").URPN.	USPAT	OR	OFF	2018/11/23 02:28
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S221	12	("20080060964" | "3568879" | "4592601" | "4685565" | "20060071581" | "4258847" | "4863222" | "2858957" | "7311202" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:30
S222	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S223	140	S222 and (snap)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S224	67	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20150274362-$ or US-20110073516-$ or US-20090193748-$ or US-20080134607-$ or US-20080104921-$ or US-20180313094-$ or US-20180213934-$ or US-20150102717-$ or US-20180161975-$ or US-20140305829-$).did. or (US-20120312812-$ or US-20180290288-$ or US-20180162592-$ or US-20170239808-$ or US-20170121056-$ or US-20130127129-$ or US-20060038367-$ or US-20160114822-$ or US-20080308369-$ or US-20080169739-$ or US-20120292870-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$ or US-5429260-$ or US-7841144-$ or US-5407074-$ or US-4293072-$ or US-3506321-$ or US-3974898-$ or US-6109707-$ or US-4423687-$ or US-9872562-$ or US-6547347-$ or US-4619363-$ or US-4118048-$ or US-3891230-$ or US-9566990-$).did. or (US-5799958-$ or US-9616562-$ or US-5184726-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:36
S225	3	("20080308369" | "8875888" | "9616562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S226	28	(US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or	US-PGPUB; USPAT	OR	OFF	2018/11/23 14:37

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IPR2024-01400

		US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20110139665-$).did. or (US-9506489-$ or US-9132543-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5628443-$ or US-5595228-$ or US-3117692-$).did.				
S227	37	S224 not (S225 S226)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3728
Examiner Name	G. R. Weinerth
Attorney Docket Number	055390-501C01US

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	20170174392	A1	2017-06-22	De Loynes	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
/G.R.W/	1	1276744	JP	S	2006-07-18	Hirofumi Kishimoto		
/G.R.W/	2	1477050	JP	S	2013-08-19	Ryosuke Omachi		
/G.R.W/	3	30-0271616	KR		2000-02-09	Joong Chul Ahm		

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3728
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	055390-501C01US

/G.R.W/	4	30-0320243	KR		2002-06-10	Joung Gu Kang		
/G.R.W/	5	135074	TW	S	2010-06-01	Yi Hua Wu		
/G.R.W/	6	168686	TW	S	2015-07-01	Kang Delun Business Co., Ltd.		
/G.R.W/	7	174412	TW	S1	2016-03-21	Lee Hsin Chang		

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/G.R.W/	1	Non-Final Rejection issued April 12, 2018, in United States Application No. 15/826,201. (16 Pages)(Docket No. 2699501JS01 446373-419).	

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	11/23/2018

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3728
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	055390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ 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 application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/William C. Geary/	Date (YYYY-MM-DD)	2018-08-03
Name/Print	William C. Geary	Registration Number	31,359

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/826,232	11/29/2017	3736	1760	55390-501C01US	20	3

CONFIRMATION NO. 1070

CORRECTED FILING RECEIPT

30623
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

OC000000104349553

Date Mailed: 12/11/2018

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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**

Inventor(s)

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

Applicant(s)

KETER PLASTIC LTD., Herzeliya, ISRAEL;
Milwaukee Electric Tool Corporation, Brookfield, WI;

Power of Attorney: The patent practitioners associated with Customer Number 30623

Domestic Priority data as claimed by applicant

This application 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

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IPR2024-01400

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: 12/10/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/826,232**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

UTILITY ASSEMBLY AND COUPLING MECHANISM

Preliminary Class

220

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

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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.

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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IPR2024-01400

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232 | Confirmation No.: 1070

Filed: November 29, 2017 | Art Unit: 3736

For: UTILITY ASSEMBLY AND COUPLING MECHANISM | Examiner: G. R. Weinerth

AMENDMENT AFTER FINAL ACTION UNDER 37 C.F.R. § 1.116

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

Dear Commissioner:

This paper is in response to the final Office Action dated November 28, 2018.

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

Remarks/Arguments begin on page 7 of this paper.

A **Terminal Disclaimer** is submitted herewith.

Electronic Acknowledgement Receipt	
EFS ID:	35122664
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	12-FEB-2019
Filing Date:	29-NOV-2017
Time Stamp:	12:18:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		55390-501C01US_Response.pdf	203211 0d4db0f55e738b7652c1418f5bf7167200ae8d86	yes	9

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Applicant Arguments/Remarks Made in an Amendment	7	9
	Claims	2	6
	Response After Final Action	1	1
Warnings:			
Information:			
	Total Files Size (in bytes):	203211	

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.

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

REMARKS

The Office Action addresses claims 1-2, 5-19, and 21-22. Claims 1-2, 7-11, 13-19, and 21-22 are rejected, and claims 5, 6, and 12 are objected to. Reconsideration is respectfully requested.

Amendments to the Claims

Claims 5 and 12 are cancelled herein without prejudice or disclaimer.

Claims 1, 6, 7, and 15 are amended as indicated above. New dependent claim 23 is added. Support for these amendments can be found throughout the specification and drawings, including for example, claims 1, 5, 12, and 21 of the application.

With respect to any claim cancellations or amendments, Applicant has not dedicated to the public nor abandoned any unclaimed subject matter and moreover have not acquiesced to any rejections and/or objections. Applicant expressly reserves the right to pursue protection of any of the presently excluded subject matter or claim embodiments in one or more future continuation and/or divisional application(s).

No new matter is added.

Entry of the amendment is proper after final at least because it only requires a cursory review by the Examiner and reduces issues for appeal. *See MPEP § 714.13.*

Allowable Subject Matter

Applicant thanks the Examiner for indicating that claims 5, 6, and 12 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Without conceding to the rejections, to expedite prosecution, as indicated above, independent claim 1 is amended to include the limitations of allowable claim 5, allowable claim 6 is rewritten in independent form including all of the limitations of its base claim and any intervening claims, and independent claim 7 is amended to include the limitations of allowable claim 12. Applicant thus respectfully submits that claims 1-2, 6-11, 13-19, and 21-22 are in condition for allowance.

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Applicant respectfully submits that each of the claims stands on its own merits and is patentable because of the combination it recites and not because of the presence or absence of any particular element(s).

Rejection Under 35 U.S.C. § 102

Claims 1, 2, 5-11[1], 13-19, 21 and 22 are rejected pursuant to 35 U.S.C § 102(a)(1) as being anticipated by U.S. Patent Publication No. 2011/0139665 of Madsen.

As mentioned above, independent claims 1 and 7 are amended herein to incorporate the allowable subject matter of claim 5, and claim 12, respectfully, and claim 6 is rewritten in independent form. Applicant thus respectfully submits that claims 1, 6, and 7 represent allowable subject matter. Claims 2, 8-11, 13-19, and 21-22 variously depend from claims 1 and 7 and represent allowable subject matter at least because they depend from an allowable base claim.

Double Patenting

Claim 7 is provisionally rejected on the ground of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent Application No. 15/826,201. Without conceding to the rejection, to expedite prosecution, a terminal disclaimer is filed on even date herewith with respect to U.S. Patent Application No. 15/826,201. Withdrawal of the double patenting rejection is therefore respectfully requested.

The Office Action further states that "[c]laim 15 is objected to under 37 C.F.R. § 1.75 as being a substantial duplicate thereof claim 14." *Id.* Claim 15 is amended as indicated above, thereby rendering this issue moot.

[1] The Office Action states that "[c]laims 5, 6 and 12 are objected to as being dependent upon a rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claim. *Office Action*, p. 6. As such, Applicant believes claims 5 and 6 were listed in error for this rejection.

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New Claims

New claim 23 depends from independent claim 6 and represents allowable subject matter at least because it depends from an allowable base claim.

Conclusion

In conclusion, Applicant submits that all pending claims are now in condition for allowance, and allowance thereof is respectfully requested. Applicant's amendment of the claims does not constitute a concession that the claims are not allowable in their unamended form. The Examiner is encouraged to telephone the undersigned attorney for Applicant if such communication is deemed to expedite prosecution of this application.

No extension of time is believed to be due. In the event that a petition for an extension of time is required to be submitted at this time, Applicant hereby petitions under 37 C.F.R. 1.136(a) for an extension of time for as many months as are required to ensure that the above-identified application does not become abandoned.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: February 12, 2019

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
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(617) 542-6000
Attorney for Applicant

83087676v.1

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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A coupling mechanism configured for readily detachably attaching a first utility module to a second utility module, the coupling mechanism comprising:

a female coupler at a face of one of the first utility module and the second utility module, the 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 direction, wherein the at least one locking rib extends substantially parallel to the sliding path;

a male coupler at a face of the other one of the first utility module and the second utility module, the male coupler having a projecting locking location disposed in register with the depressed locking location and configured with at least one locking tongue extending along the sliding path at a second direction, opposite to the first direction, and configured for arresting engagement at a space between the locking rib and depressed surface; and

at least one locking member for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path,

wherein the female coupler includes two locking ribs that extend at side edges of the depressed locking location and disposed substantially parallel to the sliding path.

2. (Previously Presented) The coupling mechanism of claim 1, wherein the female coupler is configured at the top face of the first utility module, and wherein the male coupler is configured at the bottom face of the second utility module.

3-5. (Cancelled).

6. (Currently Amended) ~~The~~ A coupling mechanism ~~of claim 1,~~ configured for readily detachably attaching a first utility module to a second utility module, the coupling mechanism comprising:

a female coupler at a face of one of the first utility module and the second utility module, the 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 direction, wherein the at least one locking rib extends substantially parallel to the sliding path;

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a male coupler at a face of the other one of the first utility module and the second utility module, the male coupler having a projecting locking location disposed in register with the depressed locking location and configured with at least one locking tongue extending along the sliding path at a second direction, opposite to the first direction, and configured for arresting engagement at a space between the locking rib and depressed surface; and

at least one locking member for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path.

wherein the female coupler includes two locking ribs that each extend at a respective side edge of two neighboring depressed locking locations, the locking ribs disposed substantially parallel to the sliding path.

7. (Currently Amended) A coupling mechanism for a utility assembly that comprises at least a first utility module and at least a second utility module, the coupling mechanism being 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 includes at least one depressed locking location configured with a locking rib, and at least one locking latch arresting location; and the other one of the top face of the first utility module and a bottom face of the second utility module includes at least one projecting portion with a locking tongue disposed in register with the at least one depressed locking location, and at least one locking latch disposed in register with the 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 the at least one locking rib and the at least one locking tongue, wherein the at least one locking latch is spring biased and configured for normally projecting from a face of the respective first or second utility module.

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8. (Previously Presented) The coupling mechanism of claim 7, wherein (i) the at least one locking rib extends substantially parallel to the sliding path, (ii) the at least one locking rib extends substantially perpendicular and intersects the sliding path, (iii) a single locking rib extends at rear end of a depressed locking location and substantially perpendicular to the sliding path, (iv) wherein two locking ribs extend at side edges of a depressed locking location and disposed substantially parallel to the sliding path, or (v) two locking ribs each extend at a respective side edge of two neighboring depressed locking locations, the locking ribs disposed substantially parallel to the sliding path.

9. (Original) The coupling mechanism of claim 7, 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.

10. (Original) The coupling mechanism of claim 7, 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.

11. (Previously Presented) The coupling mechanism of claim 7, wherein the at least one locking latch is configured for displacement in a direction substantially normal to a respective face of a utility module.

12. (Cancelled).

13. (Original) The coupling mechanism of claim 7, wherein the locking latch is manipulable to be opened through an opening configured at a front wall of the respective utility module.

14. (Original) The coupling mechanism of claim 7, wherein one or both of the locking tongue and locking rib are configured with a slanting surface at corresponding orientation along the sliding path.

15. (Currently Amended) The coupling mechanism of ~~claim 7~~claim 1, wherein one or both of the locking tongue and locking rib are configured with a slanting surface at corresponding orientation along the sliding path

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16. (Previously Presented) The coupling mechanism of claim 1, wherein one or both of a front edge of 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 arrested engagement with the first utility module.

17. (Previously Presented) The coupling mechanism of claim 7, wherein one or both of a front edge of the projecting portion 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.

18. (Previously Presented) The coupling mechanism of claim 1, wherein the first utility module is configured for detachably attaching one or more second utility modules thereto.

19. (Previously Presented) The coupling mechanism of claim 7, wherein the first utility module is configured for detachably attaching one or more second utility modules thereto.

20. (Cancelled).

21. (Previously Presented) The coupling arrangement of claim 1, wherein at least one locking latch arresting location is configured at a top face of one of the first utility module and the second utility module and at least one locking latch configured at a bottom face of the other of the first utility module and the second utility module, such that the at least one locking latch being axially displaceable between a projecting position in which it interlocks with the at least one locking latch arresting location for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path, and a retracted position in which sliding displacement of the first utility module with respect to the second utility module along the sliding path is permitted.

22. (Previously Presented) The coupling arrangement of claim 7, wherein the at least one locking latch is axially displaceable between a projecting position and a retracted position, wherein, when in the projecting position, the at least one locking latch interlocks with the at least one locking latch arresting location for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path, and

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IPR2024-01400

wherein, when in the retracted position, sliding displacement of the first utility module with respect to the second utility module along the sliding path is permitted.

23. (New) The coupling arrangement of claim 6, wherein at least one locking latch arresting location is configured at a top face of one of the first utility module and the second utility module and at least one locking latch configured at a bottom face of the other of the first utility module and the second utility module, such that the at least one locking latch being axially displaceable between a projecting position in which it interlocks with the at least one locking latch arresting location for arresting the first utility module with respect to the second utility module and preventing sliding displacement along the sliding path, and a retracted position in which sliding displacement of the first utility module with respect to the second utility module along the sliding path is permitted.

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/25 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION**
Application Number	15826232
Filing Date	29-Nov-2017
First Named Inventor	Yaron Brunner
Attorney Docket Number	55390-501C01US
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%

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)

15826201 filed on 11/29/2017

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.

- (●) Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.
- ( ) I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

- ( ) Small Entity
- ( ) Micro Entity
- (●) Regular Undiscounted

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

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

- (●) An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

  Registration Number 63259

- ( ) A sole inventor
- ( ) A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application
- ( ) A joint inventor; all of whom are signing this request

Signature	/Elissa M. Kingsland/
Name	Elissa M. Kingsland

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

Electronic Patent Application Fee Transmittal

Application Number:	15826232
Filing Date:	29-Nov-2017
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Elissa Marie Kingsland
Attorney Docket Number:	55390-501C01US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**160**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 15826232

Filing Date: 29-Nov-2017

Applicant/Patent under Reexamination: Brunner

Electronic Terminal Disclaimer filed on February 12, 2019

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	35122599
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	12-FEB-2019
Filing Date:	29-NOV-2017
Time Stamp:	12:20:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$160
RAM confirmation Number	021219INTEFSW00010252500311
Deposit Account	500311
Authorized User	null null
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	34600 cda548fc49a6c3cb4d4ea97257dd9169f4ec0e80	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30302 b77a9114db412ffac3c35f8adeda09a275542c98	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	64902		

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/826,232	Filing Date 11/29/2017	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $80 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $420 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	02/12/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 18	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ANNETTE COWAN/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

30623 7590 03/11/2019

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 03/11/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	06/11/2019

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

30623 7590 03/11/2019
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	06/11/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	206-501000

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

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

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

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

1 _____
2 _____
3 _____

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

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

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

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

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

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

30623 7590 03/11/2019

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 03/11/2019

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

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

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

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

PTOL-85 (Rev. 02/11)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 875
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 15/826,232	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

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

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

1. ☑ This communication is responsive to 2/12/2019.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

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

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

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

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

Attachment(s)

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

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

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IPR2024-01400

Continuation of 3. The allowed claim(s) is/are: 1-2,6-11,13-19 and 21-23

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: The Amended Claims of 2/12/2019 incorporate allowable subject matter indicated in the Office Action of 11/28/2018. Specifically, Amended Claim 1 recites a single depressed locking location (244) having two locking ribs (248) that form the coupling engagement as seen in Figure 8A. Claim 6 recites two locking ribs (312A and 312B – Figure 12C) in two neighboring depressions (308A and 308B). These two ribs in two neighboring depressions serve as the female coupler as discussed in Specification Page 32 Lines 6-14 to hold an item in an offset position from the depressions.

2. Amended Claim 7 is similar in scope to Amended Claim 1 of Application 15/826201, but the Terminal disclaimer of 2/12/2019 overcomes any double patenting issues.

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

Conclusion

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

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

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

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

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Notice of References Cited	Application/Control No. 15/826,232	Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20190039781-A1	02-2019	KOGEL; Jan	B65D21/0212	1/1
*	B	US-20190002004-A1	01-2019	BRUNNER; Yaron	B25H3/02	1/1
*	C	US-20170318927-A1	11-2017	KRAUS; Daniel	A45C3/00	1/1
*	D	US-20170166352-A1	06-2017	Hoppe; Christopher S.	B25H3/022	1/1
*	E	US-20110220531-A1	09-2011	Meether; Stuart L.	B62B3/02	206/508
*	F	US-20110073516-A1	03-2011	Zelinskiy; Konstantin	B25H3/02	206/509
*	G	US-9701443-B2	07-2017	Wang; Tzu-Chien	B65D21/0228	1/1
*	H	US-3974898-A	08-1976	Tullis; Kay Jeanne	A45C7/0045	190/3
*	I	US-3506321-A	04-1970	HAMPEL HEINZ	A47B87/02	312/107
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC - Searched*		
Symbol	**Date**	**Examiner**
A47B47/00	6/6/2018	GW
A47B67/04	6/6/2018	GW
A47B87/02,007,0276	6/6/2018	GW
B65D21/0224,02,0223,0212,0217,0219,0222,0228,023,	6/6/2018	GW
B65D25/2823,06	6/6/2018	GW
B25H3/021,022,023,04,06	6/6/2018	GW
Y10T403/7045	6/6/2018	GW
A47B87/02	11/23/2018	GW
A47B88/90	11/23/2018	GW
B25H3/02	11/23/2018	GW
B65D21/0204	11/23/2018	GW
A45C7/0045	2/20/2019	GW
A45C5/14	2/20/2019	GW
B65D21/00	2/20/2019	GW

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**
Update search from co-pending Applications 15826201, 16216724	02/20/2019	GW

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
206	508,511,504,302,501	6/6/2018	GW
280	47.18,47.19,47.26,79.2	6/6/2018	GW
312	107,111	11/23/2018	GW
280	47.26,47.28,652	11/23/2018	GW

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

	/G.W./ Examiner.Art Unit 3728

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

Search Notes		
Search Notes	**Date**	**Examiner**
Update search from Application 16216724 and 15826201	02/20/2019	GW

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
A45C7	0045	2/20/2019	GW
A47B47	00	2/20/2019	GW
A47B67	04	2/20/2019	GW
A47B87	02,007,00276	2/20/2019	GW
A47B88	90	2/20/2019	GW
B65D21	0024,02,00,0223,0212,0217,0219,0222,0228,023,0204	2/20/2019	GW
B65D25	2823,06	2/20/2019	GW
B25H3	021,02,022,023,04,06	2/20/2019	GW
Y10T403	7045	2/20/2019	GW
206	508,511,504,302,501	2/20/2019	GW
280	47.18,47.19,47.26,79.2,47.28,652	2/20/2019	GW
312	107,111	2/20/2019	GW

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

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

CLAIMS

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

CLAIM		DATE								
Final	Original	06/08/2018	11/23/2018	02/21/2019						
	1	✓	✓	=						
	2	✓	✓	=						
	3	✓	-	-						
	4	✓	-	-						
	5	✓	O	-						
	6	✓	O	=						
	7	✓	✓	=						
	8	✓	✓	=						
	9	✓	✓	=						
	10	✓	✓	=						
	11	✓	✓	=						
	12	✓	O	-						
	13	✓	✓	=						
	14	✓	✓	=						
	15	✓	✓	=						
	16	✓	✓	=						
	17	✓	✓	=						
	18	✓	✓	=						
	19	✓	✓	=						
	20	✓	-	-						
	21		✓	=						
	22		✓	=						
	23			=						

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

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

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	21 February 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6A

U.S. Patent and Trademark Office — Part of Paper No.: 20190220

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 885
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B65D	/	21	/	02
	/		/	
B25H	/	3	/	02

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
206	501

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
206	504	508	511			
280	47.18					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	21 February 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6A

U.S. Patent and Trademark Office — Part of Paper No.: 20190220

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

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

CLAIMS

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	21 February 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6A

U.S. Patent and Trademark Office — Part of Paper No.: 20190220

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IPR2024-01400

Bibliographic Data

Application No: 15/826,232

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /GIDEON R WEINERTH/ (Examiner's Signature) G.R.W (Initials)

Title: UTILITY ASSEMBLY AND COUPLING MECHANISM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/29/2017	220	3736	55390-501C01US
RULE			

APPLICANTS

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Christopher S. Hoppe Milwaukee, WI, UNITED STATES

Steven W. Hyma Milwaukee, WI, UNITED STATES

CONTINUING DATA

This application 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**

12/10/2018

STATE OR COUNTRY

ISRAEL

ADDRESS

Mintz Levin/Boston Office

One Financial Center

Boston, MA 02111

UNITED STATES

FILING FEE RECEIVED

$5,740

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	(("20120228074") or ("20120152800") or ("20170318927") or ("20110220531") or ("20110073516") or ("7841144")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:31
L2	5	("20040163913" | "20050199459" | "20100147642" | "20120228074" | "20120312812").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:33
L3	14	("1299291" | "1643397" | "2706036" | "3811562" | "4020930" | "4790417" | "5671830" | "0758019" | "D135357").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:35
L4	325	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:40
L6	0	("2018/0161975").URPN.	USPAT	OR	OFF	2019/02/20 19:42
L7	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:57
L8	16	("20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "20170174392" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
L9	14	("20050139745" | "20080277221" | "20090145790" | "20100147642" | "20110073516" | "20110181008" | "20130121783" | "20170318927" | "20180044059" | "20190002004" | "5608603" | "6637707" | "8177463" | "9701443").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
L10	33	L7 L8 L9	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
L11	932	A45C5/14.cpc.	USPAT	OR	OFF	2019/02/20 20:01
L12	28	B65D21/00.cpc.	USPAT	OR	OFF	2019/02/20 20:01
L39	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:58

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L41	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59
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L45	26	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20170318927-$ or US-20120152800-$ or US-20110220531-$ or US-20110073516-$ or US-20070012694-$ or US-20190039781-$ or US-20190002004-$ or US-20060006770-$ or US-20170166352-$).did. or (US-9566990-$ or US-5429260-$ or US-5890613-$ or US-5099968-$ or US-4693345-$ or US-3319744-$ or US-9108764-$ or US-9701443-$ or US-3974898-$ or US-3506321-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
L46	19	L45 not L41	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
L47	1	"20170166352".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:25
L48	1	"20180161975"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:28
S1	2	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 19:40
S2	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:41
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S4	22	("5699925" | "6959507" | "20090139892" | "20090236255" | "5469961" | "20030155267" | "20080308641" | "3182856" | "5353948" | "3581928" | "4351448" | "20090178989" | "2634020" | "3387732" | "5755180" | "6761266" | "7246718" | "7246718" | "5606820" | "4351448" | "20090236255" | "20050224494" | "5469961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:51
S5	134	("2733830" | "2746081" | "3077282" |	US-	OR	OFF	2018/04/05

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		"3285464" | "3315796" | "3376046" | "3381844" | "3405836" | "4109821" | "4302866" | "4401312" | "4431114" | "4844263" | "5062539" | "5096084" | "5312011").PN. OR ("5699925").URPN.	PGPUB; USPAT; USOCR			19:52
S6	23	("20030155267" | "20050224494" | "20080308641" | "20090139892" | "20090178989" | "20090236255" | "2634020" | "3182856" | "3387732" | "3581928" | "4351448" | "5353948" | "5469961" | "5606820" | "5699925" | "5755180" | "6761266" | "6959507" | "7246718").PN. OR ("8590704").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:54
S7	42	("3098686" | "4391478" | "4452003" | "4662515" | "4768651" | "4901664" | "5176281" | "5244265" | "5344339" | "5624029" | "5685421" | "5699925" | "5938023").PN. OR ("6193062").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:57
S8	165	(KETER adj PLASTIC).as.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:00
S9	38	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:01
S10	1031	206/508.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:06
S11	206	S10 and (spring resilient)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:07
S12	121	S10 and (spring bias biasing biased)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:08
S13	33	("3145870").URPN.	USPAT	OR	OFF	2018/04/05 20:11
S14	66	("0353600" | "0888611" | "2111884" | "2256024" | "2670892" | "3145870" | "3341053" | "3343670" | "3353665" | "3369658" | "3419176").PN. OR ("3933268").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:12
S15	41	("3933268" | "4303158" | "4383721" | "4592601" | "4733703" | "4768651" | "4782619" | "5203618" | "5244265").PN. OR ("5482162").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:13
S16	26	("2812099" | "2980751" | "3147151" | "3167458" | "3338452" | "3341053" | "3745048" | "3767468" | "3933268" | "3944074" | "4113926").PN. OR ("4339049").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:14
S17	2166	206/508,511,504.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:18
S18	121	206/503.ccls. and (spring)	US-	OR	OFF	2018/04/05

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			PGPUB; USPAT; USOCR			20:19
S19	22	("2807387" | "3182856" | "4724756" | "5083664" | "5375709" | "5445269").PN. OR ("5934466").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:21
S20	3773	280/47.18,47.19,47.26,79.2.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S21	891	280/47.18,47.19,47.26,79.2.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S22	1	("2004/0183266").URPN.	USPAT	OR	OFF	2018/04/05 20:34
S23	2	(("20020014488") or ("4113214") or ("3845968")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 20:35
S24	3	(("20020014488") or ("4113214") or ("3845968")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:35
S25	8	("2002/0014488").URPN.	USPAT	OR	OFF	2018/04/05 20:36
S32	138	S21 and (stack stacked stacking)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:01
S33	29	("1014475" | "1408400" | "1636682" | "1815825" | "4717168" | "5139278").PN. OR ("5294137").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:03
S34	23	("2606652" | "2677483" | "2736452" | "3258091" | "3308911" | "3376046" | "3401933" | "4066156").PN. OR ("4220343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:08
S35	39	("20020175172" | "20040112906" | "20050051549" | "20090308883" | "20100108556" | "20100140890" | "20110139805" | "20110248458" | "20110278879" | "20120012596" | "20130181419" | "20150040606" | "3117692" | "3376046" | "3999775" | "4091953" | "4093070" | "4220343" | "4828112" | "5011240" | "5069466" | "5287966" | "5427394" | "6520514" | "6964348" | "7086551" | "7134552" | "7544915" | "7950679" | "8322530" | "8360447" | "8465030" | "8596655" | "8690170" | "8777043" | "8936260" | "9205951").PN. OR ("9669930").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:08
S36	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:11
S37	20	B65D21/02.cpc. and spring	US-PGPUB; USPAT;	OR	OFF	2018/04/05 21:12

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			USOCR			
S38	31	("2626025" | "3331529" | "3346137" | "3749273" | "3811747" | "3836043").PN. OR ("4813542").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:13
S39	43	("4545487" | "4813542" | "5617953" | "5864467" | "5949653").PN. OR ("6085925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:14
S40	60	(french adj cleat)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:16
S41	25	("3361293").URPN.	USPAT	OR	OFF	2018/04/05 21:21
S42	32	("2483269" | "3219400" | "3361293" | "3512696" | "3565624" | "3763980" | "4190172" | "4322118" | "4389078" | "4624383" | "4660725" | "5016946" | "5038937" | "5105962" | "5310071" | "6047827" | "6056377" | "6276550" | "D330128" | "D332745").PN. OR ("7152752").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:22
S43	11	("20070145864" | "20100254757" | "20110085853" | "3944282" | "4900090" | "4995176" | "6612078" | "6830236" | "6877824" | "7152752" | "8464408").PN. OR ("9506489").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:23
S44	16	("3469331" | "4716666").PN. OR ("4995176").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:24
S45	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:25
S46	7	("1849659").URPN.	USPAT	OR	OFF	2018/04/05 21:29
S47	46	("1849659" | "2774511" | "2916293" | "2994457" | "3053397" | "3100582" | "3113680" | "3219232" | "3282458" | "3647112" | "4000817" | "4176747" | "Re26758" | "Re27649").PN. OR ("4550837").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:30
S48	1066	B65D21/0217,0219,0222,0228,023.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:33
S49	92	B65D21/0217,0219,0222,0228,023.cpc. and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:33
S50	0	("2017/0121056").URPN.	USPAT	OR	OFF	2018/04/05 21:37
S51	4	("20110139777" | "5301829" | "5427265" | "8602217").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:37

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S52	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:39
S53	2	("2012/0024739").URPN.	USPAT	OR	OFF	2018/04/05 21:43
S54	4	("2011/0168599").URPN.	USPAT	OR	OFF	2018/04/05 21:44
S55	22	("5699925" | "6959507" | "20090139892" | "3182856" | "20030155267" | "20080308641" | "3182856" | "5353948" | "3581928" | "4351448" | "20090178989" | "2634020" | "3387732" | "5755180" | "6761266" | "20050224494" | "7246718" | "5606820" | "20090236255" | "5469961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:45
S56	237	206/501.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:46
S57	2	("2010/0219193").URPN.	USPAT	OR	OFF	2018/04/05 21:50
S58	72	("0879455" | "20040134390" | "20040178208" | "20060254946" | "20060254947" | "20080017650" | "20100219193" | "2695115" | "2849151" | "3103278" | "3117692" | "3383009" | "3391824" | "3407758" | "3419184" | "3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3916803" | "3926321" | "3968879" | "4287997" | "4618059" | "4655360" | "4765252" | "4832200" | "4848605" | "4889235" | "5054617" | "5203494" | "5392945" | "5404829" | "5454477" | "5641090" | "5718350" | "5769230" | "5779051" | "5974981" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6371364" | "6446563" | "6457599" | "6585090" | "6622642" | "6662950" | "6698362" | "7163122" | "D236326" | "D333094" | "D361715" | "D446017" | "D500924").PN. OR ("8851287").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:50
S59	36	("20020096844" | "4066155" | "4813542" | "5099968" | "5564805" | "5906291" | "D439739").PN. OR ("6585090").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:52
S60	73	("20030029750" | "20030123965" | "20050072642" | "20050077136" | "20060119060" | "20070012694" | "20070068757" | "2497173" | "3061057" | "3452846" | "3532355" | "3572253" | "3650216" | "3861703" | "3891230" | "4081061" | "4118048" | "4122925" | "4350194" | "4621716" | "4657135" | "4693345" | "4738340" | "4792025" | "4813521" | "4951818" | "5038842" | "5048649" | "5109961" | "5142445" | "5178244" | "5186290" | "5197579" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:53

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		"5339934" | "5373104" | "5379870" | "5407039" | "5447216" | "5484045" | "5484046" | "5632496" | "5713439" | "5890571" | "5927361" | "6073737" | "6116390" | "6164425" | "6213266" | "6401890" | "6520327" | "6585090" | "6634496" | "6758334" | "6976566" | "7077252" | "7232018" | "7380685" | "7398868" | "7726483" | "7780002" | "7942282" | "D294775" | "D453623").PN. OR ("8561769").URPN.				
S61	44	("20040007574" | "20050036847" | "20050199459" | "20070130731" | "20090178946" | "20120292867" | "3419184" | "3987829" | "4287997" | "4452555" | "5058746" | "5085448" | "5186330" | "5564805" | "5709008" | "5785328" | "6116390" | "6983946" | "7011214" | "7044528" | "7163122" | "7350789" | "7482928" | "7530580" | "7537119" | "7714708" | "7780026" | "7854321" | "7883096" | "7938412" | "8132819" | "8146771" | "8256242" | "8561769" | "8567796" | "D358765" | "D401412" | "D467424" | "D467425" | "D467426" | "RE44656").PN. OR ("9550605").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:59
S62	10	("20050199623" | "5765707" | "5829595" | "6024223" | "7337908").PN. OR ("8146771").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:03
S63	42	("0621601" | "2761582" | "3113690" | "3616943" | "3643993" | "3823973" | "3828964" | "3977558" | "4000704" | "4042111" | "4416374" | "4678084" | "4887731" | "5011036" | "5022546" | "5105967").PN. OR ("5186330").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:05
S64	74	("0879455" | "2849151" | "3005282" | "3371816" | "3393858" | "3481502").PN. OR ("3616943").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:08
S65	36	("1234730" | "20020145022" | "20030010799" | "20040207225" | "20090212584" | "2578238" | "2883764" | "3002650" | "3131829" | "3351228" | "3374914" | "3616943" | "4754883" | "4838745" | "4941784" | "5025964" | "5392945" | "5469999" | "5538153" | "5671511" | "5676251" | "5687895" | "5855310" | "6471278" | "7159730" | "7329451" | "7537119" | "D264014" | "D333094").PN. OR ("9738198").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:09
S66	75	("0879455" | "20040178208" | "20060254947" | "2695115" | "2849151" | "2939603" | "3103278" | "3117692" | "3383009" | "3391824" | "3419184" | "3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3968879" | "4287997" | "4655360" | "4671411" | "4765252" | "4832200" | "4848605" | "5042674" | "5203494" | "5392945" | "5454477" | "5566824" | "5641090" | "5718350" | "5769230" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:10

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		"5779051" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6367630" | "6371364" | "6457599" | "6585090" | "6662950" | "7163122" | "D333094" | "D361715" | "D446017" | "D500924").PN. OR ("7537119").URPN.				
S67	45	("0491865" | "1142932" | "1665238" | "20060016812" | "20070108080" | "20080264820" | "20100084119" | "3144016" | "3259263" | "3369691" | "3384259" | "3828964" | "4109789" | "4655360" | "4760921" | "4901380" | "5086926" | "5203494" | "5461755" | "5564583" | "5671856" | "5699925" | "5769230" | "6024223" | "6085467" | "6186345" | "6237758" | "6273258" | "6457599" | "6715627" | "6840378" | "6851566" | "7510096" | "7537119" | "8056722" | "RE37518").PN. OR ("8813960").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:11
S68	32	("4506798" | "4626155" | "4741449" | "5109985" | "5123541" | "5190179" | "5722328" | "5862917").PN. OR ("6024223").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:12
S69	4	("1665238").URPN.	USPAT	OR	OFF	2018/04/05 22:15
S70	39	("2885135" | "3376046" | "3539071" | "3568879" | "3987829" | "4174950" | "4765252" | "4844263" | "D248015").PN. OR ("D333094").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:17
S71	53	("2761582" | "3117692" | "3360162" | "3379341" | "3392875" | "3419184" | "3675815" | "3759416" | "3979016" | "4093071" | "4106624" | "4189052" | "4379508").PN. OR ("4832200").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:19
S72	79	("3117692").URPN.	USPAT	OR	OFF	2018/04/05 22:22
S73	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:24
S74	13	("20060186186" | "20070209962" | "20080202976" | "2328689" | "2828059" | "3811566" | "4279354" | "4293071" | "6315126").PN. OR ("8684222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:25
S75	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:26
S76	110	("2457842" | "2483464" | "2664219" | "2702142" | "3073466" | "3130855" | "3140007" | "3586204" | "3828964").PN. OR ("4287997").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:30
S77	63	("2461526" | "3078484" | "3114486" | "3233803" | "3749294" | "3902640" | "3915189" | "4082208" | "4287997" | "4307826" | "4366922" | "4424841" | "4491258" | "4545414" | "4673070" | "4790432" | "4813542" | "4884731" | "5131576" | "5184763" | "5321904" | "5419473").PN. OR ("5628443").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:33

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S78	151	("1409838" | "20010040080" | "20020074332" | "20020130005" | "20020185350" | "20030034215" | "20030034636" | "20040000457" | "20040004332" | "20040026199" | "20040074725" | "20040163910" | "20040211634" | "20040238303" | "20050077133" | "20050077706" | "20050098402" | "20050103590" | "20050150733" | "20050258621" | "20050285359" | "20060010644" | "20060086583" | "20060102677" | "20060163305" | "20060175170" | "20060196743" | "20060207848" | "20080060953" | "20080136133" | "20080223679" | "20080236972" | "20080308369" | "20080308370" | "20090057082" | "20090139813" | "20090160147" | "20090218187" | "20100000805" | "20100025174" | "20100095480" | "20100108452" | "20100147642" | "20100263977" | "20100307879" | "20100308563" | "20110247910" | "20120160617" | "20120261223" | "20150091264" | "20160045000" | "2454438" | "2602675" | "3131829" | "3178197" | "3317081" | "3659867" | "3842953" | "3891230" | "3974898" | "4087102" | "4314624" | "4335895" | "4575109" | "4588055" | "4673070" | "4917392" | "4953257" | "4969660" | "5072958" | "5105962" | "5127662" | "5263727" | "5310071" | "5348325" | "5533231" | "5628443" | "5630601" | "5749503" | "5803471" | "5815843" | "5873145" | "5984154" | "5984327" | "6016893" | "6042127" | "6047442" | "6141841" | "6179176" | "6182981" | "6186295" | "6196366" | "6196560" | "6213266" | "6213267" | "6237734" | "6260871" | "6279705" | "6289554" | "6305587" | "6360400" | "6367602" | "6401888" | "6401890" | "6409412" | "6454065" | "6471019" | "6474524").PN. OR ("6484362" | "6530507" | "6533086" | "6575493" | "6591950" | "6604617" | "6609271" | "6736073" | "6769701" | "6832670" | "6880685" | "6923352" | "6961976" | "6964420" | "7066311" | "7070190" | "7073694" | "7093700" | "7097181" | "7097183" | "7143912" | "7226073" | "7232018" | "7237660" | "7281616" | "7284304" | "7318507" | "7328779" | "7350648" | "7374183" | "7426985" | "7441785" | "7478803" | "7594569" | "7597341" | "7780026" | "8607947").PN. OR ("9888752").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:34
S79	6	("2008/0308369").URPN.	USPAT	OR	OFF	2018/04/05 22:35
S80	45	("0672173" | "1084360" | "20020144376" | "20040084269" | "20040173427" | "20040238241" | "20050077136" | "20050092568" | "20080308369" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:36

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		"20090095588" | "20090101461" | "20100059322" | "20100170761" | "20100236886" | "20100270116" | "20110168507" | "20130037364" | "20130175129" | "20130213753" | "20130220754" | "2581417" | "4836343" | "5099968" | "5355980" | "5560458" | "5671832" | "5829559" | "5927450" | "5988334" | "6347693" | "6533086" | "6536568" | "7322477" | "7322585" | "7503569" | "7909149" | "8087513" | "D516869" | "D671316").PN. OR ("9027722").URPN.				
S81	35	("0922567" | "1084360" | "1567461" | "2372845" | "2428906" | "2801666" | "2858957" | "3837447" | "4098312" | "4122925" | "4142563" | "4257463" | "4286639" | "4673070" | "4744446").PN. OR ("4836343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:39
S82	51	("0778785" | "1567461" | "2372845" | "2428906" | "2989998" | "3631572" | "3696850" | "4122925" | "4128194" | "4256245" | "4424841").PN. OR ("4673070").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:40
S83	33	("0842498" | "1689399" | "3114486" | "3698045" | "4231135" | "4673070" | "4799298" | "4934573" | "5205448" | "5259093" | "5465425" | "5604958" | "5632071" | "5724707" | "5815843" | "6108816" | "7080430" | "7251867").PN. OR ("7526842").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:41
S84	23	("2428906" | "2707035" | "3225951" | "3319744" | "3696850" | "3958731").PN. OR ("4122925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:43
S85	33	("1973819" | "2007696" | "3373911").PN. OR ("4142563").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:46
S86	12	("2858957").URPN.	USPAT	OR	OFF	2018/04/05 22:48
S87	12	("20060071581" | "20080060964" | "2858957" | "3346137" | "3568879" | "4258847" | "4592601" | "4685565" | "4863222" | "7311202").PN. OR ("9724820").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S88	43	("2128854" | "3743372").PN. OR ("4863222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S89	73	("2842420" | "2998128" | "3032381" | "3294463" | "3501044" | "3552817").PN. OR ("3743372").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:51
S90	36	("2011962" | "3514170" | "3552817" | "3743372" | "3851936" | "3999818" | "4198777" | "4238032" | "4353470" | "4589546" | "4744612" | "4782619" | "4874210" | "4907703" | "5046789" | "5137340" | "5176435" | "5191983" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:53

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		"5344024" | "5399004" | "5454634").PN. OR ("6050657").URPN.				
S91	17	("3131829" | "3429632" | "3552579" | "3707023" | "4062302" | "4239306" | "5246284").PN. OR ("5454634").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:55
S92	55	("0511617" | "1890000" | "2492697" | "2557630" | "2807387" | "3203744" | "3283915" | "3514170" | "3743372" | "3758181" | "3918781" | "3999818" | "4026615" | "4056295" | "4120549").PN. OR ("4243279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:59
S93	45	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:03
S94	14	("2593998").URPN.	USPAT	OR	OFF	2018/04/05 23:06
S95	52	("4081061" | "4621716" | "5316159" | "6213266" | "6213267" | "7976024" | "1084360" | "3749273" | "4570799" | "4995436" | "5779051" | "D447944" | "3103278" | "3374917" | "5000713" | "6585090" | "5098328" | "D359315" | "20030132184" | "20050199459" | "4813542" | "0480709" | "5062539" | "5186290" | "6276550" | "D346627" | "5310071" | "20040222059" | "3583590" | "3836043" | "4287997" | "4656840" | "5167336" | "5392945" | "6257381" | "20040000458" | "4573595" | "7644828" | "D483200" | "7648407" | "3811747" | "20010027902" | "5099968" | "5485920" | "5709304" | "5735422" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:14
S96	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:16
S97	41	("2454438" | "2495132" | "3131829" | "3194426" | "3297196" | "3317081" | "3343705" | "3404805" | "3851936" | "4192422").PN. OR ("4328902").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:18
S98	43	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:29
S99	11	("0907507" | "1626482" | "2343525" | "3974898" | "4065014").PN. OR ("4423687").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:30
S100	32	("3481502").URPN.	USPAT	OR	OFF	2018/04/05 23:38
S101	8	(("1112943") or ("2255513") or ("2849151") or ("3371816")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:41
S102	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/05 23:41
S103	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:42

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S104	21	("1112943").URPN.	USPAT	OR	OFF	2018/04/05 23:43
S105	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 12:32
S106	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 12:33
S107	22	("879455").URPN.	USPAT	OR	OFF	2018/04/06 12:34
S108	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 13:10
S109	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 13:11
S110	37	("3899229" | "4431237" | "4519655" | "4828341" | "4889254" | "5191983").PN. OR ("5469961").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:11
S111	25	("20030155267" | "20050224494" | "20080308641" | "20090139892" | "20090178989" | "20090236255" | "2634020" | "3182856" | "3387732" | "3581928" | "4351448" | "5353948" | "5469961" | "5606820" | "5699925" | "5755180" | "6761266" | "6959507" | "7246718").PN. OR ("8677661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:12
S112	24	("1226708" | "2833137" | "2834121" | "2843943" | "3139744" | "3220229" | "3545235" | "3824813" | "4507942" | "4551996" | "4663948" | "4680948" | "4821535" | "4972687" | "4989426" | "5469961" | "5653416").PN. OR ("5951130").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:13
S113	118	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:03

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		$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$).did. or (US-3117692-$ or US-2593998-$).did.				
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S116	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05
S117	2198	B25H3/021,022,023,04,06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:07
S118	436	A47B47/00.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S119	1076	A47B87/02,007,0276.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S120	550	A47B67/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:11
S121	770	Y10T403/7045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:12
S122	9	("7451578" | "6209278" | "4599841" | "6363677" | "6955020" | "7040068" | "6588166" | "6804926" | "6658808").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:14
S123	102	("0890436" | "2740167" | "3310919" | "3988187" | "5295341" | "5630304" | "6023907" | "1854396" | "2381469" | "20030029116" | "3040388" | "3192574" | "3347048" | "3526420" | "4599841" | "6098365" | "5899038" | "20020112433" | "20030029115" | "2381469" | "3673751" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:15

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		"4599841" | "4819932" | "5086599" | "5363616" | "6029416" | "6216409" | "6324809" | "6546691" | "6606834" | "6647690" | "20030029115" | "3902291" | "5295341" | "5630304" | "6421970" | "6763643" | "0753791" | "20030029116" | "2430200" | "3579941" | "5283102" | "6209278" | "6647690" | "6854235" | "20030024201" | "3579941" | "3673751" | "4426820" | "4741136" | "5860267" | "6023907" | "6122879" | "6769835" | "0338653" | "1776188" | "1854396" | "20030024201" | "3172508" | "3175476" | "3902291" | "4094090" | "5706621" | "6122879" | "6397548" | "2740167" | "20020112433" | "3175476" | "4416097" | "5797237" | "6029416" | "6182410" | "6397548" | "0890436" | "0623562" | "3040388" | "3192574" | "3347048" | "4426820" | "5860267" | "6098365" | "6490836" | "20050210810" | "3310919" | "4819932" | "5086599" | "5283102" | "6006486" | "6101778" | "6209278" | "6324809" | "3720027" | "20020170258" | "4416097" | "4807416" | "5165816" | "5618602" | "6094882" | "6101778" | "6182410" | "6513862" | "20020170258" | "20030024200" | "3657852" | "3988187" | "5165816" | "6094882" | "6591568" | "5274979" | "6772568" | "3200553" | "3657852" | "4741136" | "4819532" | "5797237" | "6006486" | "6505452" | "6591568" | "6854235" | "4094090" | "5363616" | "5618602" | "6513862" | "6606834" | "5548937" | "6880307" | "7065935" | "20030024200" | "2138085" | "2142305" | "3526420" | "5348778" | "20050210810" | "1776188" | "2138085" | "2142305" | "2430200" | "3172508" | "0338653" | "5706621" | "6490836" | "6504552" | "6546691" | "5274979" | "1723306").PN.				
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S125	477	("0087853" | "0108068" | "0124228" | "0213740" | "0274354" | "0316176" | "0634581" | "0861911" | "1194636" | "1723306" | "1743492" | "1809393" | "1902716" | "20010024707" | "20020031646" | "20020069611" | "20020092263" | "20020170258" | "20020170259" | "20020178674" | "20020178680" | "20020189190" | "20020194807" | "20030009971" | "20030024199" | "20030037504" | "20030084636" | "20030094230" | "20030101681" | "20030145549" | "20030180091" | "20030188504" | "20030196405" | "20040016196" | "20040031227" | "20040049999" | "20040060255" | "20040068954" | "20040123548" | "20040128934" | "20040139676" | "20040139678" | "20040159066" | "20040168392" | "20040177584" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:17

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		"20040261348" | "20050003132" |					
		"20050028474" | "20050050827" |					
		"20050160694" | "20050166514" |					
		"20050205161" | "20050210810" |					
		"20050235593" | "20050252130" |					
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		"20070175156" | "20070193178" |					
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		"20160076260" | "20160090744" | "20160153200" | "20160168866" | "20160186426" | "20160194884" | "20160201336" | "20160251859" | "20160251860" | "20160281368" | "20160281370" | "20160340913" | "20170037641" | "2026511" | "2204675" | "2266464" | "2277758" | "2430200" | "2596280").PN. OR ("2732706" | "2740167" | "2858584" | "2863185" | "2865058" | "2889016" | "3023681" | "3077703" | "3099110" | "3147522" | "3271787" | "3325585" | "3331180" | "3378958" | "3396640" | "3512324" | "3517927" | "3526071" | "3535844" | "3572224" | "3579941" | "3720027" | "3722379" | "3731445" | "3742669" | "3760547" | "3760548" | "3778954" | "3849235" | "3919820" | "3950915" | "3994609" | "4007994" | "4030852" | "4037377" | "4041665" | "4064571" | "4080086" | "4082129" | "4100710" | "4104840" | "4107892" | "4113399" | "4169688" | "4196554" | "4227430" | "4299070" | "4304083" | "4426820" | "4447172" | "4512131" | "4599841" | "4648165" | "4819932" | "5007222" | "5026112" | "5071282" | "5135597" | "5148850" | "5173012" | "5182892" | "5247773" | "5272850" | "5274979" | "5295341" | "5344700" | "5348778" | "5373674" | "5465546" | "5485702" | "5502939" | "5548937" | "5577357" | "5598682" | "5618602" | "5634309" | "5658086" | "5694730" | "5755068" | "5860267" | "5899038" | "5910084" | "5950389" | "5970675" | "6006486" | "6029416" | "6052960" | "6065262" | "6173548" | "6182410" | "6203653" | "6254301" | "6295779" | "6314701" | "6332733" | "6339908" | "6345481" | "6358352" | "6363677" | "6385936" | "6418683" | "6446413" | "6449918" | "6450235" | "6490836" | "6505452" | "6546691" | "6553724" | "6576079" | "6584747" | "6591568" | "6601359" | "6617009" | "6647689" | "6647690" | "6651400" | "6670019" | "6681820" | "6684592" | "6685391" | "6729091" | "6763643" | "6766622" | "6769219" | "6769835").PN. OR ("6802166" | "6804926" | "6808777" | "6854235" | "6862857" | "6865855" | "6874291" | "6880307" | "6948716" | "7021019" | "7040068" | "7051486" | "7108031" | "7121058" | "7152383" | "7188456" | "7219392" | "7251916" | "7337588" | "7377081" | "7451578" | "7454875" | "7516588" | "7517427" | "7533500" | "7556849" | "7568322" | "7584583" | "7614197" | "7617651" | "7634884" | "7637068" | "7644553" | "7677005" | "7716889" | "7721503" | "7757452" | "7802411" | "7806624" | "7841144" | "7841145" | "7841150" |				

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		"7856789" | "7861482" | "7866110" | "7908815" | "7908816" | "7930862" | "7954295" | "7980041" | "8006458" | "8033074" | "8042311" | "8061104" | "8079196" | "8112967" | "8171692" | "8181416" | "8234830" | "8245478" | "8341914" | "8341915" | "8353140" | "8359805" | "8381477" | "8387327" | "8448402" | "8499521" | "8505257" | "8511031" | "8528289" | "8544230" | "8544234" | "8572922" | "8578675" | "8596013" | "8627862" | "8640424" | "8650826" | "8677714" | "8689512" | "8701368" | "8707650" | "8713886" | "8733065" | "8733410" | "8763341" | "8769905" | "8776473" | "8844236" | "8857126" | "8869485" | "8898988" | "8925274" | "8959866" | "8973331" | "9027306" | "9051738" | "9068360" | "9091077" | "9194134" | "9212492" | "9216541" | "9238917" | "9284737" | "9309679" | "9316002" | "9340974" | "9347469" | "9359774" | "9366036" | "9376821" | "9382716" | "9388584" | "9428919" | "9453347" | "9458634" | "9482012" | "9540826" | "9663940" | "RE30154").PN. OR ("9803375").URPN.				
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S127	16	(("1351133") or ("1459189") or ("1465421") or ("1652421") or ("1652305") or ("1667160") or ("2201110") or ("2460330")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 18:22
S128	6	(("0935402") or ("1925070") or ("2453918")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 18:23
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S131	18	("2715966" | "20050247653" | "4771897" | "5429252" | "5740927" | "5845792" | "5915573" | "6152312" | "6267338" | "6435357" | "6564949" | "6581788" | "6698603" | "6871749" | "7014052" | "7028854" | "7117998").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:43
S132	7	("20100314271" | "8991599" | "5799787" | "7686180" | "8695795" | "8991599" | "20100314271" | "5797508" |	US-PGPUB; USPAT;	OR	OFF	2018/04/06 18:46

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		"3862689").PN.	USOCR			
S133	2	("20080236562" | "7723655").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:47
S134	6	(matthew near3 vargo).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S135	75	(Hoppe near2 Christopher).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S136	14	B65D25/2823.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S137	351	B65D25/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S138	73	(Milwaukee adj Electric).as. and (stack box)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:01
S139	8	(Milwaukee adj Electric).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02
S140	8	(Milwaukee and tool).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02
S141	84	(Milwaukee and tool).as. and latch	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:03
S142	37	(Milwaukee and tool).as. and (stack stacked stacking)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04
S143	629	("1275862" | "20010022257" | "20020008125" | "20020014507" | "20020017752" | "20020043534" | "20020074332" | "20020084159" | "20020125160" | "20020162716" | "20020163284" | "20030034636" | "20030042091" | "20030042093" | "20030075468" | "20030132080" | "20030151218" | "20040004332" | "20040026199" | "20040026294" | "20040036240" | "20040108179" | "20040112777" | "20040144606" | "20040154889" | "20040163910" | "20040188201" | "20040188205" | "20040195791" | "20040206431" | "20040245735" | "20050023096" | "20050056511" | "20050109650" | "20050121275" | "20050121868" | "20050194756" | "20050224305" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04

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		"4575109" | "4588055" | "4630837" | "4846493" | "4852705" | "4890414" | "4923105" | "5035523" | "5042193" | "5048649" | "5108119" | "5116289" | "5147019" | "5165148" | "5167306" | "5167354" | "5184477" | "5207440" | "5209327" | "5228609" | "5228706" | "5249438" | "5295742" | "5310079" | "5316096").PN. OR ("5323886" | "5323887" | "5330141" | "5358082" | "5368143" | "5377795" | "5379887" | "5386907" | "5394965" | "5396974" | "5429287" | "5431262" | "5435423" | "5447216" | "5447261" | "5452778" | "5469944" | "5470000" | "5474162" | "5482147" | "5498010" | "5499702" | "5501308" | "5501379" | "5511682" | "5513066" | "5518139" | "5524737" | "5524920" | "5528453" | "5529230" | "5529322" | "5542510" | "5553692" | "5560458" | "5560459" | "5562208" | "5564538" | "5564805" | "5568848" | "5570824" | "5575391" | "5579877" | "5580137" | "5588569" | "5593009" | "5595228" | "5605263" | "5609278" | "5620212" | "5630488" | "5639003" | "5641170" | "5645146" | "5653337" | "5660276" | "5667172" | "5671832" | "5672145" | "5678666" | "5685402" | "5709008" | "5715759" | "5732987" | "5755311" | "5762170" | "5762411" | "5788032" | "5788260" | "5810132" | "5819892" | "5833039" | "5833095" | "5836497" | "5862898" | "5865281" | "5890570" | "5893495" | "5915553" | "5915554" | "5924533" | "5927837" | "5934425" | "5941437" | "5943936" | "5967270" | "5971101" | "5992588" | "5997116" | "6006906" | "6015064" | "6038747" | "6050374" | "6062357" | "6073766" | "6073944" | "6076666" | "6081695" | "6082538" | "6098768" | "6102172" | "6109403" | "6129254" | "6167680" | "6167994" | "6176559" | "6179185" | "6182981" | "6186295" | "6203075" | "6206063" | "6213296" | "6227339" | "6230887" | "6244485" | "6244486" | "6289554" | "6301746" | "6305514" | "6318713" | "6328320" | "6343708" | "6343815" | "6347847" | "6357567").PN. OR ("6367603" | "6371320" | "6371346" | "6390348" | "6405864" | "6408996" | "6415924" | "6435389" | "6443274" | "6446988" | "6460668" | "6471019" | "6474665" | "6478463" | "6484362" | "6502882" | "6505843" | "6520514" | "6527309" | "6530507" | "6533138" | "6550651" | "6561327" | "6561402" | "6571998" | "6578708" | "6595334" | "6614337" | "6622856" | "6637562" | "6666363" | "6675965" | "6675967" | "6688614" | "6692011" | "6695142" | "6698609" | "6722524" | "6736265" | "6739150" | "6742684" | "6755302" |				

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		"6755448"	"6758534"	"6761366"				
		"6789670"	"6820878"	"6840359"				
		"6860059"	"6910560"	"6915902"				
		"6923352"	"6926129"	"6938740"				
		"6938741"	"6948724"	"6955381"				
		"6976566"	"6978890"	"7004481"				
		"7008031"	"7021637"	"7036641"				
		"7048133"	"7066311"	"7073694"				
		"7104555"	"7108131"	"7111853"				
		"7117991"	"7121407"	"7144020"				
		"7147089"	"7158376"	"7168713"				
		"7201243"	"7225923"	"7228983"				
		"7237673"	"7237688"	"7240909"				
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		"7316309"	"7318542"	"7322470"				
		"7322583"	"7326428"	"7331454"				
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		"7367451"	"7370891"	"7374183"				
		"7387304"	"7387305"	"7387350"				
		"7389997"	"7401698"	"7401700"				
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		"7516502"	"7540364"	"7552560"				
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		"8376177"	"8434617"	"8439174"				
		"8469195"	"8505729"	"8517155"				
		"8517400"	"8534434"	"8567796"				
		"8657307"	"8662268"	"8695770"				
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		"8919896"	"8936140"	"8936258"				
		"8960959"	"8979073"	"8979100"				
		"9060577"	"9066565"	"9067614"				
		"9095193"	"9260129"	"9295313"				
		"D258705"	"D259154"	"D272203"				
		"D309981"	"D316485"	"D326815"				
		"D333215"	"D333487"	"D347731"				
		"D355849"	"D368159"	"D370619"				
		"D374772"	"D375834"	"D377118"				
		"D378247"	"D385110"	"D386903"				
		"D390358"	"D402106"	"D405956"				
		"D414038"	"D418977"	"D437684"				
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		"D449442"	"D449738"	"D451275"				
		"D452071"	"D453624"	"D455263"				
		"D459073"	"D462168"	"D465923"				
		"D467070"	"D470659"	"D471360"				

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		"D472385" | "D472774" | "D480867" | "D505548" | "D509656" | "D516310" | "D516808" | "D516812" | "D520746" | "D563669" | "D572479" | "D572480" | "D588811" | "D589703" | "D599112" | "D600015").PN. OR ("D600912" | "D601797" | "D605403" | "D608094" | "D609911" | "D609913" | "D616200" | "D618911" | "D621153" | "D621610" | "D624317" | "D625515" | "D625915" | "D627968" | "D629607" | "D630435" | "D630851" | "D635769" | "D636996" | "D637812" | "D639554" | "D641552" | "D647301" | "D648532" | "D648533" | "D649350" | "D649783" | "D661858" | "D661903" | "D664354" | "D668867" | "D668868" | "D668869" | "D670500" | "D672555" | "D673774" | "D701696" | "D744750" | "D750890").PN. OR ("9616562").URPN.				
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S146	44	("1699130" | "2072672" | "2551814" | "2633285" | "2736487" | "3010638" | "3361322" | "3623650" | "3632037" | "3713579" | "3905478" | "3905541" | "3921896" | "4002261" | "4023617" | "4187977" | "4230233" | "4245773" | "4251006" | "4277015" | "4291830" | "4389013" | "4482074" | "4643314" | "4685610" | "4762270" | "4763833" | "4828894" | "4884739" | "4911356" | "4948039" | "4993623" | "5038998" | "5116290" | "5190213").PN. OR ("5429260").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:12
S147	0	("1140005").URPN.	USPAT	OR	OFF	2018/04/06 19:30
S148	119	("1267650" | "1999162" | "3163268" | "3379482" | "3419184" | "3425471" | "3498689" | "3642168" | "3700137" | "3979016" | "3987829" | "4161261" | "4293073" | "4303158" | "4523692" | "4664347" | "4799503" | "4804092" | "4819795" | "4915913" | "4982863" | "4984687" | "5011013" | "5024471" | "5040834" | "5042674" | "5065885" | "5065887" | "5080250" | "5103994" | "5117979" | "5123564" | "5176281" | "5186330" | "5190152" | "5193706" | "5244265" | "5319937" | "D237135" | "D237611" | "D238148" | "D239695" | "D246872" | "D248280" | "D257934" | "D258721" | "D277797" | "D286937" | "D292711" | "D302774" | "D312573" | "D316516" | "D319016" | "D321090" | "D321091" | "D322164" | "D325323" | "D325324" | "D326775" | "D326815" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 20:05

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		"D327646" | "D328425" | "D328818" | "D328819" | "D329331" | "D329747" | "D330161" | "D330162" | "D330329" | "D331317" | "D335960" | "D336366" | "D339471" | "D342364").PN. OR ("5564805").URPN.				
S149	62	("0198092" | "0564782" | "1063046" | "1268124" | "1740470" | "1987822" | "2011197" | "2094805" | "2122969" | "2504722" | "2759507" | "2786500" | "2791251" | "2799306" | "3018355" | "3615087" | "3746210" | "3851756" | "4061323" | "4239195" | "4256294" | "4278243" | "4303158" | "4378828" | "4460085" | "4909491" | "4911296" | "5011013" | "5117979" | "5193706" | "D253212" | "D263533" | "D288867").PN. OR ("5595228").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:03
S150	15	("2587829" | "2610761" | "2740517" | "4252239" | "4733703" | "5329929" | "5595228").PN. OR ("6206063").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:04
S151	6	("4466659" | "4967944" | "5207470" | "6193118" | "6554169" | "7000810").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S152	96	("1032326" | "1503894" | "1926162" | "2612200" | "2629644" | "2724595" | "2735597" | "2754079" | "2979190" | "3229946" | "3640423" | "3642168" | "3664704" | "3727971" | "3759416" | "3791547" | "3854621" | "3940009" | "3987829" | "4190281" | "4213539" | "4215896" | "4288011" | "4403786" | "4458570" | "4488669" | "4499998" | "4522326" | "4531774" | "4580827" | "4593816" | "4623071" | "4674665" | "D259413" | "D285673").PN. OR ("4967944").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S153	25	("2967080" | "2987358" | "4844305" | "4967944" | "5419476" | "5667115").PN. OR ("5988473").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:40
S154	10	("2987358").URPN.	USPAT	OR	OFF	2018/04/07 00:41
S155	4	("2009/0315285").URPN.	USPAT	OR	OFF	2018/04/07 00:46
S156	223	("5072918" | "5390943" | "5871219" | "6739605" | "0875476" | "6086073" | "4743040" | "6109628" | "1427388" | "20040129658" | "20050023786" | "20050057011" | "20060232033" | "20060237091" | "3472392" | "3999775" | "4699270" | "4786122" | "5072955" | "5743607" | "5876047" | "6123346" | "6545863" | "7232136" | "D396023" | "6497423" | "D153654" | "2155769" | "3313498" | "3870177" | "4391422" | "4763799" | "4923202" | "4998023" | "5509671" | "5915646" | "6073919" | "6095156" | "6170839" | "6264216" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:50

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		"D188099" | "D460235" | "D461941" | "D469235" | "5921566" | "D415867" | "20030047895" | "20030218308" | "5183372" | "5275349" | "5465988" | "5913528" | "6276471" | "6752281" | "7114733" | "7134673" | "7144020" | "4743040" | "3379431" | "4457527" | "5316232" | "5566961" | "6572123" | "D153654" | "D415867" | "6497423" | "D485037" | "20060066064" | "3698735" | "3908749" | "4895068" | "6138558" | "6251113" | "6267080" | "6471010" | "6497424" | "7207449" | "4901937" | "5308012" | "6270094" | "D463646" | "D474570" | "D485410" | "5921566" | "D273242" | "D474570" | "1149639" | "2413164" | "2575661" | "2819908" | "20050001395" | "20060006621" | "20060157944" | "4099735" | "4688860" | "5048857" | "5224531" | "5452908" | "7017603" | "7156475" | "7204374" | "7296808" | "5887878" | "1126544" | "2705114" | "20050280228" | "20050284697" | "5285981" | "6116533" | "D302064" | "D361187" | "D381168" | "D424321" | "D487604" | "D504000" | "D469235" | "1200008" | "1471446" | "1562089" | "2623642" | "2845780" | "20010045718" | "20020084607" | "20020096844" | "20060076306" | "3965969" | "4138504" | "4165088" | "4373761" | "4880248" | "6539831" | "7044569" | "5154544" | "20040065989" | "20040227315" | "3212645" | "4179080" | "4759560" | "5188308" | "5362078" | "5495951" | "5687928" | "5839739" | "5971512" | "6497423" | "6669214" | "D336183" | "D471687" | "6086073" | "D302064" | "D336183" | "20020060438" | "20040056439" | "20060208440" | "4518208" | "4832355" | "5221132" | "5375860" | "5873585" | "6022088" | "6101831" | "6206385" | "D140635" | "4380293" | "6109437" | "3610431" | "4743040" | "5269545" | "5848798" | "6241181" | "6315376" | "D391032" | "D395108" | "D403826" | "D468881" | "D471688" | "D485037" | "20030122331" | "4923202" | "1487856" | "20030107195" | "3606445" | "3873114" | "5011240" | "5634649" | "5716116" | "5941229" | "6578938" | "6783563" | "6910710" | "D469235" | "4815394" | "1660521" | "3759538" | "4564152" | "4585130" | "5016948" | "5123666" | "5595395" | "6102497" | "6109628" | "6322061" | "6615973" | "D361188" | "D153654" | "1649065" | "20020064478" | "20030121874" | "20050127627" | "3722700" | "4019793" | "5282678" | "6857644" | "D147135").PN.				
S157	18	("1193809" | "1268124" | "1521310" | "3696850" | "4724976" | "4756394" | "4787488" | "5209279" | "5219423" | "5314046" | "5971119" | "0622263" | "0695149").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:56

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S158	31	("0783059" | "2878928" | "3245528" | "3319685" | "3386607" | "3605374" | "3835992" | "3992810" | "4320846" | "4627595" | "4799590" | "4890741" | "5135823" | "5370255").PN. OR ("5676274").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:50
S159	26	("1101357" | "1149266" | "1862868" | "2702116" | "3145871" | "4154362" | "4503955" | "4705316" | "4896926" | "4998616").PN. OR ("5415255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:53
S160	37	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:55
S161	6	("3412888" | "4204609" | "5409126" | "5499715" | "5769229").PN. OR ("6467681").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 17:17
S162	173	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$ or US-20080104921-$ or US-20160153200-$ or US-20080134613-$ or US-20080134607-$ or US-20070193178-$ or US-20170266804-$ or US-20140075650-$ or US-20090145866-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160023349-$ or US-20140166516-$ or US-20120326406-$ or US-20110121695-$ or US-20070194543-$ or US-20070170671-$ or US-20110049824-$ or US-20130056378-$ or US-20120312812-$ or US-20120187013-$ or US-20120080432-$ or US-20120061930-$ or US-20050280228-$).did. or (US-20060027475-$ or US-20050155889-$ or US-20160168880-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:25

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		8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$ or US-7451578-$ or US-6122879-$ or US-3526420-$ or US-2740167-$ or US-9803375-$ or US-9663940-$ or US-7841144-$ or US-9616562-$ or US-5544751-$ or US-5429260-$ or US-7946609-$ or US-6578708-$ or US-6176559-$ or US-5927837-$ or US-5564805-$ or US-5595228-$ or US-6206063-$ or US-7000810-$ or US-4967944-$ or US-5988473-$).did. or (US-6641013-$ or US-2987358-$ or US-4576423-$ or US-4756394-$ or US-4896926-$ or US-5325966-$ or US-5697500-$ or US-6467681-$).did. or (US-3117692-$ or US-2593998-$).did.				
S163	3	(("20170166352") or ("20110139665") or ("5628443")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:26
S164	28	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/04/09 01:36
S165	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S166	27	S164 not S165	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S167	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/21 18:13
S168	56	("1932429" | "20060016811" | "20060070906" | "20060237341" |	US-PGPUB;	OR	OFF	2018/11/21 18:13

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S169	5	(("20160144500") or ("0784114") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:16
S170	4	(("20160144500") or ("7841144") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17
S171	554	("0124228" | "0213740" | "0714987" | "0753791" | "1124228" | "1194636" | "1371856" | "1407679" | "1454250" | "1468288" | "1477813" | "1510924" | "1540128" | "1575821" | "1602256" | "1602267" | "1615096" | "1622103" | "1622104" | "1637634" | "1644710" | "1660480" | "1714738" | "1718702" | "1723306" | "1734826" | "1743492" | "1764331" | "1778069" | "1787027" | "1790178" | "1809393" | "1823039" | "1859667" | "1898364" | "1902716" | "1906411" | "1925070" | "1929871" | "1940377" | "1953306" | "1986739" | "1988201" | "1995264" | "20010029720" | "20020007608" | "20020007609" | "20020014047" | "20020020127" | "20020031646" | "20020046528" | "20020056245" | "20020069611" | "20020083673" | "20020092263" | "20020100231" | "20020160610" | "20020178673" | "20020178674" | "20020178682" | "20030009971" | "20030009972" | "20030024199" | "20030033777" | "20030033784" | "20030037504" | "20030041545" | "20030084636" | "20030101674" | "20030101681" | "20030115812" | "20030115821" | "20030180091" | "20030188504" | "20030196405" | "20030221387" | "20030233809" | "20040016196" | "20040031227" | "20040035078" | "20040035079" | "20040060255" | "20040068954" | "20040115921" | "20040139678" | "20040168392" | "20040177584" | "20040182036" | "20040200175" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17

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		"20060073320" | "20060075713" |					
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		"20060236642" | "20060260254" |					
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		"3554850" | "3555762" | "3572224" |					
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		"4489115" | "4501102" | "4561233" |					
		"4567706" | "4599841" | "4612074" |					
		"4612745" | "4641469" | "4643237" |					
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S172	969	Y10S292/38,53.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:25
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S174	1351	E04F2201/0146,023,05.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:26
S175	514	B25H3/02.cpc.	USPAT	OR	OFF	2018/11/21 18:45
S176	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S177	165	B25H3/021.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S178	0	("2018/0213934").URPN.	USPAT	OR	OFF	2018/11/21 18:46
S179	369	A47B88/90.cpc.	USPAT	OR	OFF	2018/11/21

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						18:46
S180	81	A47B2210/19.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:47
S181	29	("2614016" | "2676080" | "3001564" | "3079037" | "3974898" | "4040538" | "4119204" | "4239309" | "4287997" | "4293072" | "4865404" | "5190156").PN. OR ("5407074").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:50
S182	27	("0224486" | "1472676" | "2975930" | "3159436" | "3424334" | "3506321" | "3584738" | "3737031" | "4155452").PN. OR ("4293072").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:51
S183	48	("3506321").URPN.	USPAT	OR	OFF	2018/11/21 18:54
S184	46	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:56
S185	520	B65D21/0204.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:01
S186	868	A47B87/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S187	2232	312/107,111.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S188	703	A47B88/90.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:15
S189	50	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:23
S190	34	("0455883" | "0484121" | "0918297" | "20060175945" | "20100052276" | "20110279956" | "20120086319" | "20130134850" | "2341434" | "2431830" | "2441728" | "3058320" | "3135570" | "3326203" | "3712697" | "4590709" | "5011240" | "5026130" | "5048902" | "5145245" | "5673984" | "6068356" | "6164738" | "8201900" | "D322875").PN. OR ("9872562").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:24
S191	45	("1223455" | "2123803" | "2704699" | "3272581" | "3316045" | "3796474" | "4155611" | "4505526" | "4577773" | "4848588" | "5205595" | "5246105" | "5299688" | "5344226" | "5358321" | "5426885").PN. OR ("5603559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:27
S192	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" |	US-PGPUB; USPAT;	OR	OFF	2018/11/21 19:28

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		"3758181").PN. OR ("5246105").URPN.	USOCR			
S193	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:02
S194	75	("0440957" | "1933637" | "2511949" | "2789828" | "2981549" | "3055723" | "3349924" | "3379482" | "3891230" | "3905662").PN. OR ("4118048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:03
S195	45	("0273398" | "0325555" | "0825642" | "0953715" | "0953815" | "1143711" | "1365098" | "1495046" | "1611034" | "2055657" | "2565969" | "2714433" | "3828899" | "3891230" | "3974898" | "3987875" | "4066155" | "4118048" | "4139084" | "4202586" | "4389078" | "4693345").PN. OR ("4813521").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:04
S196	29	("2472491" | "2925283" | "3057636").PN. OR ("3891230").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05
S197	143	("0344661" | "0687619" | "1424819" | "20010052681" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" | "20040265104" | "20050062244" | "20050104308" | "20050258610" | "20050275178" | "20060006619" | "20060012139" | "20060038367" | "20070080512" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090096181" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140023221" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3393951" | "3734526" | "3804432" | "3891230" | "3990653" | "4169607" | "4363496" | "4448434" | "4619363" | "4884689" | "4936594" | "4984704" | "5104135" | "5123666" | "5207723" | "5333885" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" | "5626352" | "5634649" | "5720535" | "5799958" | "5845915" | "5906381" | "5913527" | "5931483" | "5934466" | "5938396" | "6000713" | "6050660" | "6079719" | "6082539" | "6109627" | "6113129" | "6123344" | "6131926" | "6135466" | "6176559" | "6254112" | "6347847" | "6357063" | "6371320" | "6394471" | "6398235" | "6474930" | "6561528" | "6601930" | "6616152" | "6659476" | "6666465" | "6874634" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05

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		"6889838" | "6945546" | "7063339" | "7066475" | "7108131" | "7168715" | "7188846" | "7188847" | "7210689" | "7263742" | "7328905" | "7367571" | "7500681").PN. OR ("7503569" | "7686260" | "7703776" | "7819407" | "7823893" | "7845653" | "7883096" | "7905502" | "7938412" | "8132819" | "8226092" | "8567796" | "8657307" | "8668209" | "9132543" | "D437484" | "D542496" | "D640869" | "D653832" | "D654241").PN. OR ("9566990").URPN.				
S198	18	("2042387" | "2528872" | "3401420" | "3891230" | "4989291" | "5915438" | "6230361" | "7000287").PN. OR ("7263742").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:07
S199	37	("5013055" | "5207723" | "5378005").PN. OR ("5799958").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:08
S201	2395	280/47.26,47.28,652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:09
S202	1975	280/47.26,47.28.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S203	518	280/652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S204	1	"15826201"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 00:33
S205	12	(US-0271616-$ | US-0320243-$ | US-1276744-$ | US-1477050-$ | US-15826201-$ | US-20080308369-$ | US-3616562-$ | US-3875888-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:39
S206	2	(("8875888") or ("9616562") or ("20080308369")).PN.	USPAT; USOCR	OR	OFF	2018/11/22 03:40
S207	3	(("8875888") or ("9616562") or ("20080308369")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:40
S208	64	("20020113387" | "20070194543" | "20080079227" | "20080084036" | "20110049824" | "3522955" | "4118048" | "4119044" | "4281843" | "5176281" | "5193706" | "5244265" | "5378005" | "5634649" | "5641170" | "5680932" | "5799958" | "5906381" | "5938396" | "5950828" | "6131926" | "6170839" | "6176559" | "6264220" | "6347847" | "6371320" | "6601930" | "6761366" | "6817623" | "7367571" | "7467801" | "7503569" | "7628406" | "7845653" | "7883096" | "7938412" | "D404916" | "D437484" | "D462168" | "D462170").PN. OR	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:37

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		("8132819").URPN.				
S209	269	("20020014507" | "20020043534" | "20020074332" | "20020125160" | "20030075468" | "20040112777" | "20050109650" | "20060017293" | "20060124505" | "20060144732" | "20060201834" | "20070137960" | "20070194543" | "20070241113" | "20080017537" | "20080035508" | "20080035510" | "20080067206" | "20080152944" | "20080164842" | "20080169739" | "20080230416" | "20090080809" | "20090211932" | "20090236810" | "20090250365" | "20100012538" | "20100012655" | "20100033325" | "20100224527" | "20100258465" | "20110084075" | "20110094910" | "20110132046" | "20110174648" | "20110268374" | "20120018330" | "20120152944" | "20120206907" | "20120257379" | "20120267374" | "20120292213" | "20120312708" | "20120317933" | "20120318792" | "20120326406" | "20120326669" | "20130007979" | "20130186795" | "20140102928" | "2125856" | "2145143" | "2799306" | "2883184" | "3177023" | "3259411" | "3394955" | "3817419" | "3851756" | "3924844" | "4105112" | "4278187" | "4353182" | "4890414" | "5042193" | "5165148" | "5295742" | "5379887" | "5386907" | "5429287" | "5470000" | "5501379" | "5518139" | "5562208" | "5580137" | "5595228" | "5620212" | "5660276" | "5672145" | "5732987" | "5755311" | "5762411" | "5915553" | "5915554" | "5924533" | "6006906" | "6015064" | "6038747" | "6073766" | "6081695" | "6082538" | "6167680" | "6176559" | "6203075" | "6206063" | "6213296" | "6230887" | "6244485" | "6244486" | "6343708" | "6343815" | "6347847" | "6371320" | "6405864" | "6415924" | "6478463" | "6502882" | "6527309").PN. OR ("6533138" | "6561402" | "6614337" | "6622856" | "6675965" | "6675967" | "6695142" | "6698609" | "6722524" | "6755302" | "6755448" | "6761366" | "6789670" | "6860059" | "6915902" | "6955381" | "6978890" | "7008031" | "7021637" | "7048133" | "7108131" | "7121407" | "7158376" | "7225923" | "7228983" | "7237673" | "7237688" | "7246704" | "7316309" | "7322470" | "7326428" | "7334680" | "7357250" | "7357268" | "7367451" | "7370891" | "7401698" | "7401700" | "7418846" | "7540364" | "7552560" | "7552950" | "7600640" | "7661530" | "7837053" | "7845653" | "7854321" | "7874328" | "7883096" | "7938412" | "7984820" | "8056943" | "8061536" | "8132819" | "8152037" | "8191910" | "8210387" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:39

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		"8267245" | "8267247" | "8272628" | "8327576" | "8328247" | "8376177" | "8434617" | "8469195" | "8505729" | "8657307" | "D259154" | "D272203" | "D309981" | "D326815" | "D333215" | "D333487" | "D347731" | "D355849" | "D368159" | "D370619" | "D374772" | "D375834" | "D377118" | "D378247" | "D385110" | "D386903" | "D390358" | "D402106" | "D405956" | "D414038" | "D418977" | "D437684" | "D447340" | "D447630" | "D448162" | "D449442" | "D449738" | "D451275" | "D452071" | "D453624" | "D455263" | "D459073" | "D462168" | "D465923" | "D467070" | "D470659" | "D471360" | "D472774" | "D480867" | "D505548" | "D509656" | "D516310" | "D516808" | "D516812" | "D520746" | "D563669" | "D572479" | "D572480" | "D588811" | "D589703" | "D599112" | "D600015" | "D600912" | "D601797" | "D605403" | "D608094" | "D609911" | "D609913").PN. OR ("D616200" | "D618911" | "D624317" | "D627968" | "D629607" | "D630435" | "D630851" | "D635769" | "D636996" | "D637812" | "D639554" | "D641552" | "D647301" | "D648532" | "D648533" | "D649350" | "D649783" | "D661858" | "D661903" | "D664354" | "D668867" | "D668868" | "D668869" | "D670500" | "D672555" | "D673774" | "D701696" | "D744750" | "D750890").PN. OR ("9539722").URPN.				
S210	15	("2007/0194543").URPN.	USPAT	OR	OFF	2018/11/22 19:40
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S212	2	("2012/0292870").URPN.	USPAT	OR	OFF	2018/11/22 19:41
S213	52	("6264083" | "6666362" | "7204374" | "20120247044" | "4249684" | "6264220" | "6935641" | "7048320" | "7165702" | "20040194333" | "20040251227" | "20070210021" | "20100300996" | "20120199708" | "4944416" | "7487981" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:46

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		"6615973" | "6786374" | "20070137532" | "5628534" | "7017254" | "6932406" | "20040051016" | "20050006539" | "20080296245" | "7740329" | "20060021985" | "5913380" | "6736265" | "20020100396" | "20120131872" | "3610429" | "6629654" | "4535897" | "6581920" | "20110107704" | "0332360" | "5406894" | "6474245" | "20050269792" | "5582269" | "20070012636" | "5687856" | "5899544" | "6247720" | "6814362" | "20040222176" | "20110168651" | "4630739" | "4961295" | "5730414").PN.				
S214	39	("2320387" | "3052484" | "3179270" | "3734526" | "4281843" | "4363496" | "4790549" | "5464104" | "5465987" | "5474312" | "5595395" | "5671933").PN. OR ("6131926").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 23:52
S215	1	"12736715"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:36
S216	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/23 01:36
S217	20	("2807387" | "20060220503" | "3219400" | "3424334" | "4293072" | "4643494" | "4782619" | "4996628" | "5184726" | "5246105" | "5427394" | "5544751" | "5699925" | "5901998" | "5924778" | "6367631" | "6983946").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:37
S218	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" | "3758181").PN. OR ("5246105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:38
S219	13	("3379482").URPN.	USPAT	OR	OFF	2018/11/23 02:28
S220	0	("2012/0152800").URPN.	USPAT	OR	OFF	2018/11/23 02:30
S221	12	("20080060964" | "3568879" | "4592601" | "4685565" | "20060071581" | "4258847" | "4863222" | "2858957" | "7311202" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:30
S222	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S223	140	S222 and (snap)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S224	67	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20150274362-$ or US-20110073516-$ or US-20090193748-$ or US-20080134607-$ or US-20080104921-$ or US-20180313094-$ or	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:36

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		US-20180213934-$ or US-20150102717-$ or US-20180161975-$ or US-20140305829-$).did. or (US-20120312812-$ or US-20180290288-$ or US-20180162592-$ or US-20170239808-$ or US-20170121056-$ or US-20130127129-$ or US-20060038367-$ or US-20160114822-$ or US-20080308369-$ or US-20080169739-$ or US-20120292870-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$ or US-5429260-$ or US-7841144-$ or US-5407074-$ or US-4293072-$ or US-3506321-$ or US-3974898-$ or US-6109707-$ or US-4423687-$ or US-9872562-$ or US-6547347-$ or US-4619363-$ or US-4118048-$ or US-3891230-$ or US-9566990-$).did. or (US-5799958-$ or US-9616562-$ or US-5184726-$).did. or (US-2430200-$).did.				
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S226	28	(US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20110139665-$).did. or (US-9506489-$ or US-9132543-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5628443-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/11/23 14:37
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	139	A45C7/0045.cpc.	USPAT	OR	OFF	2019/02/20 19:41

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L13	447	A47B47/00.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
L14	475	A47B67/04.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
L15	542	A47B87/02,007.00276.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
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L17	1073	B65D21/0217,0219,0222,0228,023.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
L18	348	B65D25/2823,06.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
L19	2120	B25H3/021,022,023,04,06.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
L20	598	Y10T403/7045.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
L21	522	A47B88/90.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
L22	916	B25H3/02.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
L23	471	B65D21/0204.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
L24	139	A45C7/0045.cpc.	USPAT	OR	OFF	2019/02/20 20:09
L26	1674	206/508,511,504,302,501.ccls.	USPAT	OR	OFF	2019/02/20 20:10
L27	2380	280/47.18,47.19,47.26,79.2.ccls.	USPAT	OR	OFF	2019/02/20 20:10
L28	554	280/47.28,652.ccls.	USPAT	OR	OFF	2019/02/20 20:11
L29	1372	312/107,111.ccls.	USPAT	OR	OFF	2019/02/20 20:11
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2/ 21/ 2019 12:13:23 AM
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Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	15/826,232	Filing Date	2017-11-29	Docket Number (if applicable)	55390-501C01US	Art Unit	3736
First Named Inventor	Yaron Brunner			Examiner Name	G. R. Weinerth		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☒ Other Cited References

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 50-0311

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

X Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
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Signature of Registered U.S. Patent Practitioner			
Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-04-17
Name	Elissa M. Kingsland	Registration Number	63259

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

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Espacenet

Bibliographic data: CN101068661 (A) — 2007-11-07

Mobile driving mechanism

Inventor(s): FRANK TIEDE STEFFEN HESSE JUER [DE] ± (TIEDE STEFFEN,HESSE JUERGEN,FUCHS FRANK)

Applicant(s): BOSCH GMBH ROBERT [DE] ± (BOSCH GMBH ROBERT)

Classification: - international: ***A47L9/00; B25H3/00***
- cooperative: **A47L9/0009**; **A47L9/0027**; **A47L9/0036**; **A47L9/242**; **B25H3/006**

Application number: CN2005841156 20051013

Priority number(s): DE20041057870 20041130

Also published as: DE102004057870 (A1) EP1819487 (A1) US2008271280 (A1) WO2006058805 (A1)

Abstract of CN101068661 (A)

An ancillary device for positioning a bone graft between bones separated by an articular slot, to ensure arthrodesis of a joint, wherein the bone graft is placed in a recess provided at the end of one or more bones defining the articular slot, and comprising means for driving the bone graft, provided with support means on the bone graft suitable for moving the latter in the recess, and actuation means, functionally connected to the driving means, and capable of being handled in order to control the movement of the bone graft.

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[19] 中华人民共和国国家知识产权局

[51] Int. Cl.
B25H 3/00 (2006.01)
A47L 9/00 (2006.01)

[12] 发明专利申请公布说明书

[21] 申请号 200580041156.3

[43] 公开日 2007 年 11 月 7 日

[11] 公开号 CN 101068661A

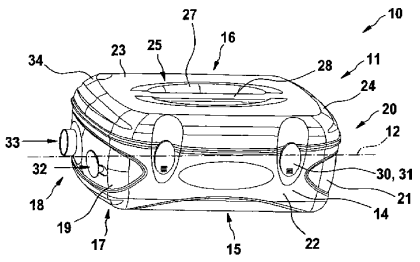
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[21] 申请号 200580041156.3
[30] 优先权
[32] 2004.11.30 [33] DE [31] 102004057870.2
[86] 国际申请 PCT/EP2005/055228 2005.10.13
[87] 国际公布 WO2006/058805 德 2006.6.8
[85] 进入国家阶段日期 2007.5.30
[71] 申请人 罗伯特·博世有限公司
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代理人 曾 立
权利要求书 3 页 说明书 10 页 附图 7 页

[54] 发明名称

移动式动力源

[57] 摘要

本发明涉及借助抽气和/或排气驱动手持式工具机(70)的移动式动力源(10)，为了特别轻便及节省位置地运输，本发明提出：它具有一个壳体(11)，该壳体被构成可用一个盖(24)关闭的箱(13)；及它的空气输送功率适配于手持式工具机(70)的功率需要量及用于存放至少一个这样的或类似的手持式工具机(70)，尤其存放附件以及空气传送管或传送软管。



1.用于借助抽吸的空气和/或排出的空气驱动手持式工具机（70）的移动式动力源（10），**其特征在于**：该动力源具有一个壳体（11），该壳体被构造成可用一个盖（24）关闭的箱（13）并且其空气输送功率适配于手持式工具机（70）的功率需要量并且用于存放至少一个这样的或类似的、尤其是具有附件的手持式工具机（70）以及空气传送管或空气传送软管。

2.根据权利要求 1 的移动式动力源（10），**其特征在于**：该动力源的壳体（11）被构造成一个矩形的箱，具有向外弯拱的棱边、倒圆的角及平坦的、在中间钵状地向内弯拱的盖（24）及平坦的下侧面及上侧面（15，25）。

3.根据权利要求 1 或 2 的移动式动力源（10），**其特征在于**：该动力源的壳体（11）由一个上部敞开的箱部件（13）组成，该箱部件在上部可借助一个尤其是可绕一个铰链区域（26）摆动的盖（24）关闭。

4.根据权利要求 3 的移动式动力源（10），**其特征在于**：所述盖（24）由两个部件（23，27）构成，这两个部件中的一个平坦的盖外壳（23）具有一个中心的穿孔（280），该穿孔被一个接片状的桥接片（28）搭接及具有弯拱的边缘及角，其中，一个盖内壳（27）从下部围搭在该穿孔（280）上及相对接片状的桥接片（28）具有一个向下的距离。

5.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：该箱（13）的一个侧面（16）带有至少一个尤其是蘑菇状的突出部分（38），一个电源电缆（42）可绕在该突出部分上及由此可被保持，其中，该突出部分（38）构成一个放置面——该动力源（10）可被放置在该放置面上——并同时构成一个防撞面，用于例如在粗糙的工地工作的情况下吸收不希望的、作用在盖（24）的铰链区域（26）上的撞击。

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6.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：在箱（13）中设有用于固定手持式工具机（70）的部件，尤其是用于固定/夹紧的弹性部件，优选为可充气的气垫的构型。

7.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：在箱（13）的两个较短的侧面（18，20）的一个上尤其并排地设有吸气口及排气口（32，33），这些口具有用于联接抽吸软管（78）的机构。

8.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：该箱（13）由一个箱构架（22）组成，该箱构架构成肋形式的增强部分。

9.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：在该增强部分（45）上设有一些缺口（69），这些缺口可借助由较软的成本有利的材料制成的、可加装的弹性的壳（19，21）封闭。

10.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：可操作的部件如盖的锁键、密封盖具有相对壳体（11）形成反差的颜色。

11.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：该箱（13）具有至少一个竖直的隔板，该隔板在壳体（11）中构成一个用于手持式工具机（70）的储物格（63）。

12.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：两个并排布置的、尤其是集成在箱（13）中的箱（55，62）用于接收电动机（105）及用作尘箱，尤其是可分别用一个盖（48，61）优选可超越锁止地封闭。

13.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：这两个箱构成为一个电动机箱（62）及一个具有尘屑控制机构的尘箱（55）。

14.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：

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在盖（24）的内侧设有用于接收抽吸软管（78）的保持机构（94），该抽吸软管可超越锁止地相对盖（24）平行地螺旋形设置。

15.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：在防尘盖（56）上设有一个旁路阀（50）。

16.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：在这些盖（24，56，61）与箱（13，55，62）之间设有密封机构。

17.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：在动力源（10）的内部、尤其是在储物格（63）中或者在盖（24）的内部设有照明机构，尤其是具有 LED 和/或发光的标记符号的构型。

18.根据权利要求 1 的移动式动力源（10），**其特征在于**：可手操作的操作部件（30，31，34）、尤其是用于打开及关闭盖或用于操作一个开关键以接通或关断动力源的操作部件被设置在壳体（11）的外部轮廓的内部。

19.根据权利要求 1 或 2 的移动式动力源（10），**其特征在于**：用于接通或关断动力源的开关键（34）可通过盖（24）的一个开口（29）由外部触及到，以便用脚或手进行操作。

20.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：一个排气适配器（83）可固定地设置在排气口（33）上及可与一个尤其是具有滤尘器（44）的排气栅（46）更换。

21.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：设有一个用于抽吸软管（78）的适配器，借助该适配器可使该抽吸软管与具有不同于该抽吸软管（78）的直径的抽吸接管的手持式工具机、如手持式电动精磨机相联接。

22.根据以上权利要求中一项的移动式动力源（10），**其特征在于**：设有一个软管中间联接件（91），用于使该抽吸软管（78）与一个加长的抽吸软管段相联接。

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移动式动力源

技术领域

本发明涉及一种用于用抽吸的空气和/或排出的空气驱动的手持式工具机的移动式动力源。

背景技术

根据 US 2003/0208874 A1 及 EP 1 383 285 A2 公开了紧凑型车间吸尘器，它们被用作清洁工具及设有用于抽吸灰尘、切屑等以及液体的附件，及此外这些车间吸尘器也可以以排气模式工作。此外，由 WO 03/026841 A1 公开了一种工具箱，它包括一个用于容纳切屑及灰尘的尘屑吸出单元。这些公开的吸尘器或工具箱仅能有条件地用作用抽吸的空气或排出的空气驱动的手持式工具机的动力源及运输箱。

发明内容

通过具有权利要求 1 的特征的本发明可得到一种紧凑的移动式动力源，该动力源既可单独地作为吸尘器也可用于驱动用空气流工作的工具机、尤其是手持式工具机，在这些工具机工作时可同时进行吸尘，并且该动力源被用作用于优选多个不同的手操纵的工具机的运输箱并且与该工具机一起构成用于不同加工方法的系统，这些方法既可用抽吸的空气也可用排出的空气来实施。

通过该动力源具有一个壳体，该壳体被构造成可用一个盖关闭的箱，该动力源的空气输送功率适配于手持式工具机的功率需要量及同时用于存放至少一个尤其是具有附件的手持式工具机以及空气传送管或空气传送软管，管的直径约为 40mm，则提供了一种新式的手持式工具机系统，它无需手持式工具机直接地连接电源即能工作及可提供足够高的工作功率及抽吸功率。

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通过该动力源具有一个壳体，该壳体被构造成一个矩形的箱，该箱具有向外弯拱的侧面、倒圆的角及棱边、平坦的上侧面及下侧面、尤其是具有在中心钵状地向内凹下的设有接片状手把的盖，因此得到了一个可特别舒适及轻便运输的、用于用空气流驱动的手持式工具机的动力源。

通过该动力源的壳体由一个上部敞开的、在那里可借助一个尤其是可绕铰链单元摆动的盖关闭的箱部件组成，因此在其中存放的手持式工具机可特别整齐地放置及可方便地取出。

通过所述盖由两个壳构成，其中上壳由特别抗弯曲、抗冲击的材料制成及具有一个中心的、带有一个接片状的桥接片的穿孔以及向下弯曲的、弯拱形的外边缘及角，及其中下壳由更有弹性的、较软的材料制成及围搭上壳的中心穿孔及从接片状的桥接片向下弯拱地突出，因此得到一个特别稳定的、可抗外部冲击地保护运输物并同时体贴地包围内部的容器部分。

通过箱部件的一个侧面带有至少一个尤其是蘑菇状的突出部分，用于对电动机供电的电源电缆可绕在该突出部分上，其中，该至少一个突出部分被用作放置面——该动力源可放置在该放置面上，并同时用作一个防撞面，用于在粗糙的工地工作时吸收作用在盖的铰链区域上的、不希望的撞击，因此运输物可被特别可靠保护地放置。

通过在箱部件中设有用于装入手持式工具机的、尤其是用于预加载地固定和/或夹紧该手持式工具机的保持-/夹紧部件，尤其是以可充气的气垫部件的构型，则在动力源运输时可防止手持式工具机在箱部件内部的不受控制的自身运动或相对运动及由此可受保护以免其损坏地运输。

通过在箱部件的两个较小侧面的一个上并排地设置各一个具有用于联接软管的机构的空气入口及空气出口，因此——视待连接的手持式工具机的选择而定——可实现从吸气到排气模式的动力源工作

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方式的快速、方便的转换。

通过在下箱部件中设有框式基本部件构型的、构架形式的、支承所述棱边的增强部分，在该增强部分上可加装弱弹性的侧壳，则吸收冲击的、由贵且重的材料制成的壳体区域可以节约材料地构成，其中，承受冲击负荷较小的面可由轻的、成本有利的材料制成并同时由此改善了向内的冲击吸收。

通过在增强部分上设有缺口，在这些缺口上可加装所述壳，则壳体可保持小的重量。

通过可运动的、被设置用于由手操作的部分如盖的锁键、用于空气入口的密封盖具有相对移动式动力源形成反差的颜色，则可特别快速及方便地找到它们。

通过箱部件具有至少一个竖直的隔板，该隔板将吸尘器与储物空间分隔开，则可特别条理清楚及可靠地存放手持式工具机及其附件。

通过该动力源由两个并排布置的、尤其集成在箱部件中的箱组成，它们尤其是可分别用一个盖优选超越锁止地封闭，则壳体的结构坚固及存放的物件能可靠及受保护地放置。

通过吸尘器的两个箱被构造成一个电动机箱及一个具有尘屑控制开口的尘箱，则这些箱及其内容物可彼此无关地在壳体受到外部撞击或冲击负荷时尤其是防扭曲地被可靠保护。

通过在盖的内侧设有用于抽吸软管的锁止-夹紧机构，该抽吸软管可超越锁止地相对盖面平行地螺旋形放置/布置，则可特别节省位置及易于操作地存放该抽吸软管。

通过在防尘盖上设有一个旁路阀，则可防过载地保护吸尘单元。

通过在盖与箱部件之间设有密封唇，能可靠地防止外部空气的进入或灰尘的漏出。

通过由黑色的增强部分围作用绿色/兰色的箱部件/盖部件，则可直观地区分壳体的软区域及硬区域。

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通过在动力源内部，尤其是在箱部件/盖部件中设有照明机构，尤其是具有 LED 和/或图形标记和/或符号的构型，优选为一个发光的标记符号，则可特别好地检查当时的、箱部件的储物格中的内容物。

通过将操作部件、尤其是用于打开及关闭盖或用于操作一个开关键以接通或关断动力源的操作部件的外部面设置在动力源的外部轮廓的内部，则可使该动力源及放置在其中的内容物受到保护以免运输时无意地打开或损坏。

通过用于接通或关断动力源的开关键通过所述盖中的开口可由外部触及，用于不仅在盖关闭时而且在盖打开时用脚或手的操作，则动力源的接通及关断可特别舒适、简单及可靠地实现。

通过软管适配器可锁止地设置在空气出口上，该软管适配器可与一个尤其是可与滤尘器固定的排气栅更换，则可特别快速地实现排气与吸气模式之间 – 或反过来 –的转换。

通过用于动力源的抽吸空气软管的、可更换的适配器可与主要可用于吸尘的、尤其是与为电动工具机设置的吸尘器相连接的吸出适配器相更换，则该动力源可同时方便地将及用最小改装时间地被用作吸尘器及手持式电动工具机的动力源。在此，空气流可被用于驱动手持式工具机及同时地用于抽吸或吹出灰尘、切屑等。

通过设置一个用于使一个附加的抽吸软管段连接到动力源的抽吸软管上的中间联接件，由此可根据需要延长抽吸软管。

因此使用者具有将动力源用于不同的、手操纵的工具机的可能性，这些工具机用抽吸空气和/或压力空气驱动及不需要直接的、自身的电源。

附图说明

以下借助实施例与附图来详细描述本发明。

附图表示：

图 1：从斜前方观察该动力源的立体图，

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图 2：从斜后方观察该动力源的视图，

图 3：根据图 1 的动力源在盖打开时的从斜上方观察的视图，

图 4：从斜左方观察根据图 1 的动力源的视图，

图 5：带有螺旋形地置入的软管的根据图 3 的动力源，

图 6：用于借助动力源工作的用抽吸空气驱动的手持式磨削机，

图 7：动力源的一个解体图，

图 8a：用于将抽吸软管与动力源或用空气流传动的手持式工具机连接的软管联接器，

图 8b：具有用于连接软管与排气口的接管的盖板，

图 8c：用于使抽吸软管与手持式电动工具机连接的联接件，具有用于 19 毫米软管的接管，

图 8d：用于使抽吸软管与手持式电动工具机连接的联接件，具有用于 35 毫米软管的接管，

图 8e：用于加装延长段及抽吸软管的软管中间联接器，及

图 8f：用于手持式钻孔机的钻孔辅助器，用于在产生位置上吸走钻孔尘屑。

具体实施方式

在图 1 中所示的一个箱式动力源 10 的从斜前方观察的立体图上可看到其纵轴线 12，该纵轴线平行于前侧面 14 及后侧面 16 地延伸。动力源 10 的下部区域是一个上部敞开的、六面的、矩形的箱 13，该箱在其下侧面 15 上借助于一个底部 17 封闭。此外该箱 13 具有一个左侧面及右侧面 18，20 以及一个上侧面 25，该上侧面通过一个盖 24 来体现。

箱 13 由一个具有冲击韧性的、高级材料作的底盘形式的箱构架 22 构成，该箱构架承载一个左及右侧的、由比较有弹性的轻材料作的侧壳 19，21 以及所述可摆动地被支承的、固定在铰链侧 25 上的盖 24，此盖构成动力源 10 的上侧面 26。

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盖 24 由一个盖框架 26 组成，此盖框架如箱构架 22 那样由具有冲击韧性的高级材料制成及在其上——从上方看——固定着一个凹入的盖壳 27。盖框架 26 构造有一个横向搭接盖壳 27 的、中间的手把片 28，该手把片可用手舒适地握持及保证了动力源 10 的非常均衡的携带。

在箱 13 的前侧面 14 上，在上部、与盖 24 相邻地设有两个卡锁 30，31，借助它们可使盖 24 防止无意地打开地可靠地锁在箱 13 上。在左侧面 18 上穿过左侧壳 19 彼此平行地伸出一个吸气口 32 及一个排气口 33。

在箱 13 的上侧面上，在左侧面 18 与后侧面 16 之间的角上设有一个开关键 34，该开关键借助弹簧系统 35 弹性预加载地保持在其起始位置中，由该起始位置起该开关键可被从上部按压到接通或关断位置。该开关键 34 穿过盖 34 中的一个合适的开口 29，以致其外部面与盖 24 的外部面齐平地延伸并且即使在盖 24 关闭的情况下也可从外部由脚或由手操作。开关键 34 位于一个上部件 36 上，该上部件与一个开关 37 形成操作连接。

在后侧面 16 上设有一个电缆盖板 38，用于保持可绕在该电缆盖板上的电源电缆 42，该电源电缆穿过后侧面 16 的一个未详细示出的、对水密封的出口穿出及在箱 13 的内部可通过一个电缆接线柱 39 与一个电动机 104 电连接。在箱 13 的内部设有一个电缆束 40，该电缆束使开关 37 与电动机 104 及其它未示出的电元件相连接。

在电缆盖板 38 的边缘上可固定一个电缆夹 41，借助该电缆夹可使电源电缆 42 的自由端部可取下地夹紧在该电缆夹上。

在一个电动机箱盖 61 与一个用于接收一个驱动未详细示出的抽气机的电动机 104 的电动机箱 62 之间设有一个电动机箱密封装置 42。

吸气口 32 可借助一个可取下的吸气口盖 48 封闭，此盖可防止：在动力源 10 运输时灰尘及切屑从其尘箱 55 掉落。排气口 33 被排气

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过滤器 44 覆盖及借助一个可固定在那里的排气栅 46 将该排气过滤器固定在该排气口上。

尘箱 55 可由一个防尘盖 56 借助于防尘密封件 57 基本上气密地封闭，其中防尘盖 56 可借助一个手柄形式的突出部分 49 舒适地打开或关闭。在防尘盖 56 中设有一个旁路 50，该旁路在尘箱 55 过满时使一个阀 53 打开，空气在绕过吸气口 32 的情况下通过该阀进入。该旁路 50 包括一个固定盖 51，该固定盖带有所述阀 53 及一个密封件 52，其中阀 53 通过一个弹簧 54 预加载地保持并且只有从一个最小负压起被打开并且使附加的空气流入。

电动机箱 62 与尘箱 55 通过一个共同的开口连接，该开口被一个吸气过滤器 54 覆盖。该吸气过滤器 53 可防止吸入的空气使切屑及灰尘到达电动机 105。电动机箱盖 61 可绕一个未示出的铰链摆动以便打开及关闭。在与铰链对立的侧上，该电动机箱盖设有一个手抠 60，一个手的手指可容易地伸入其中以打开电动机箱盖 61。

卡锁 30，31 由两个曲杆 64，65 组成，这些曲杆各借助一个压键 66 及各一个锁止杆 67 可各绕一个轴 68 摆动。因此盖 24——可绕一个铰链侧 26 摆动地——可靠地、防止无意地打开地相对箱 13 闭锁。

图 2 表示从斜后方观察后侧面 16 时的动力源 10，其中可清楚地看到具有电缆夹 41 的电缆盖板 38。此外还可看到，电缆盖板 38 的面积这样地大，以致它可用作放置动力源的放置面。此外可看到动力源 10 的壳体 11 的壳状结构方式及吸气口与排气口 32，33 的布置。

图 3 表示当盖 24 打开时从斜上方看到其内部时的动力源 10。在此情况下可看到待被置入的抽吸软管 78 的预定螺旋布置及用于将该抽吸软管接收在盖 24 中的保持或夹持件 45 的构型。此外示出箱 13、开关键 34、盖 24 中的用于开关键 34 的穿过的开口 29、用于绕铰链 560 摆动/打开防尘盖 56 的手柄 49、设置在其上的旁路 50、用于打开电动机箱盖 61 的手抠 60、用于放置三角形磨削机 70 或其附件 98 的

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储物格 63 的俯视图。在此可看到：箱 13 的大致 1/2 的容积供放置三角形磨削机及盖 24 的整个容积供放置抽吸软管 78 使用。

图 4 表示从斜上方观察具有吸气口 32 及排气口 33 的左侧面 18 及前侧面 14 与上侧面 25 的动力源 10，其中可清楚地看到先前描述的细节，在此不再重复。

图 5 表示类似图 3 的动力源 10，在打开的盖 24 的内部具有螺旋形地放置的抽吸软管 78，其中还可区分出附件 98。

图 6 表示一个构成透平-三角形磨削机 70 的、用于借助动力源 10 工作的、用抽吸空气驱动的手持式磨削机。该手持式磨削机具有一个烙铁形状的壳体 71，该壳体具有一个可由手握持的、用作操作手把 72 的上部区域。该壳体 71 向后延续到一个管状的壳体区域 73，该壳体区域被用作可由操作手舒适地握持的主手把。该壳体区域通到一个联接接管 80 中，在该联接接管中可超越锁止地插入抽吸软管 78 的一个软管联接件 81，以便使三角形磨削机 70 连接到动力源 10，以由抽吸空气来驱动。在上部在操作手把的区域中设有一个开关键 74，借助该开关键可减小抽吸空气流。借助该抽吸空气可驱动壳体 71 内部的一个未示出的透平，该透平将一个磨削盘 76 驱使为轨道运动。软管联接件 81 通过一些锁止凸块 82 形锁合地与联接接管 80 可超越锁止地连接及在那里进入到联接接管 80 的壁中的未详细描述的锁止开口中。

图 7 表示动力源 10——分解为各个零件——的解体图。在此，可特别清楚地看到在前面的图中所述的细节及特征。

图 8a 表示用于将抽吸软管连接到动力源 10 或三角形磨削机 70 或类似的用空气流驱动的工具机上的软管联接件。

图 8b 表示一个排气适配器 83，它由一个盖板 100 组成，该盖板设有一个接管 101，该接管用于使抽吸软管 78 连接到排气口 33 上，该排气口可更换在吸气模式时设置的具有排气过滤器 44 的排气栅 46。

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为此盖板在其侧向端部上设有一些锁舌 84，该锁舌 1 可在外部在排气口 33 的区域中卡到左侧面 18 上。

图 8c 表示一个软管联接件 85，用于将抽吸软管 78 连接到一个产生小量至中等量尘屑的手持式电动工具机的一个纤细的（19mm）吸出软管-接口/排气接管上。

图 8d 表示另一联接件 88，用于将抽吸软管 78 连接到一个产生中等量至大量尘屑的手持式电动工具机的一个不太细的（35mm）吸出软管-接口上

图 8e 表示一个软管-中间联接件 91，用于联接吸出软管的延长段，该延长段的直径与吸出软管 78 的直径相一致。

图 8f 表示一个钻孔辅助器 93，用于穿过一个钻头以抽吸在钻孔时形成的钻屑。

当连接在吸气口 32 的情况下，该动力源 10 例如可使下列器具用抽吸空气流工作：超精磨削机/多用磨削机、偏心式磨削机、石膏纸板切割机、钻孔辅助器及同时地吸出所形成的尘屑/污物，这些尘屑及污物将通过任意的过滤系统被分离。

当连接在排气口 33 的情况下，该动力源 10 可使以下器具用“压力”空气流工作：涂料喷枪、排气喷嘴/接缝喷嘴、热空气枪、用于使橡皮船及气垫等充气的附加阀。

在动力源 10 的箱 13 中设有一个储物格 63，用于放置三角形磨削机 70 及抽吸-功能附件例如接缝喷嘴、钻孔辅助器 93、用于动力工具的适配器 85，88、用于吸尘器附件的适配器、砂纸（Z）等。

电源电缆 42 在动力源 10 的后侧面 16 上被绕在电缆盖板 38 上及借助夹子形式的电缆夹 41 固定在该电缆盖板 38 上。此外，电缆盖板 38 可作为放置面使用，以便使动力源 10 竖放。

用于与排气栅 44 互换的排气适配器 83 用于在吸气时改善空气通过量及在排气时更好地建立压力。

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抽吸软管 78 具有一个用作快速锁合的联接接管 80，借助该联接接管可使该抽吸软管连接到吸尘器、透平-三角形磨削机或其它的附属器具上。

在上边缘/角部上的开关键 34 用于由脚方便地接通/关断，其中在盖打开及关闭时均可进行接通/关断操作。

箱 13 通过侧壳 19，21 加强，它们被压紧和/或用螺钉拧紧在箱构架 22 上。通过仅局部地使用更坚固/更高级的材料可提高箱构架 22 的强度，而无需对整个壳体 11 使用昂贵的材料。

吸气口 32 和具有手抠的排气口 33 都被集成在其中一个侧壳 19 上，以致在那里在注塑部件的可简单出模方面存在大的构型余量。

盖壳 23 也作为凹下的置入件被中心地设置在平盖 24 上的手把片 28 的手把区域中。由此该区域可更好地从注塑模具中出模，这保证了动力源的可叠放性及在使用时在盖关闭的情况下可固定小零件或刀具的放置并可用作设计要素。

在防尘盖 56 中或变换地在过滤器壳体中的旁路阀 50 可保证在附加吸尘袋时电动机 104 不会在过载状态下运行。电动机将由抽吸空气冷却。如果吸尘袋注满磨削屑或其气孔被堵塞，则在无旁路阀 50 时剩余是冷却空气将不再能足够地冷却电动机 104。该电动机将过热。一旦灰尘过滤器与电动机风扇之间的过滤器室中的负压低于一个确定的、可由弹簧 54 调节的值时，该负压/旁路阀 50 将打开。通过旁路阀 50 的打开将使附加的空气在绕过过滤器的情况下吸入，以足够地冷却电动机[7]。

在运输动力源 10 时，通过吸气口盖 48 的设置防止了灰尘/废屑从其吸气口 32 落出。通过侧面部分[24]中的手抠使所述打开变得容易及通过由一个销（Pin）固定在侧面部分[24]上可防止其脱落。

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图 1

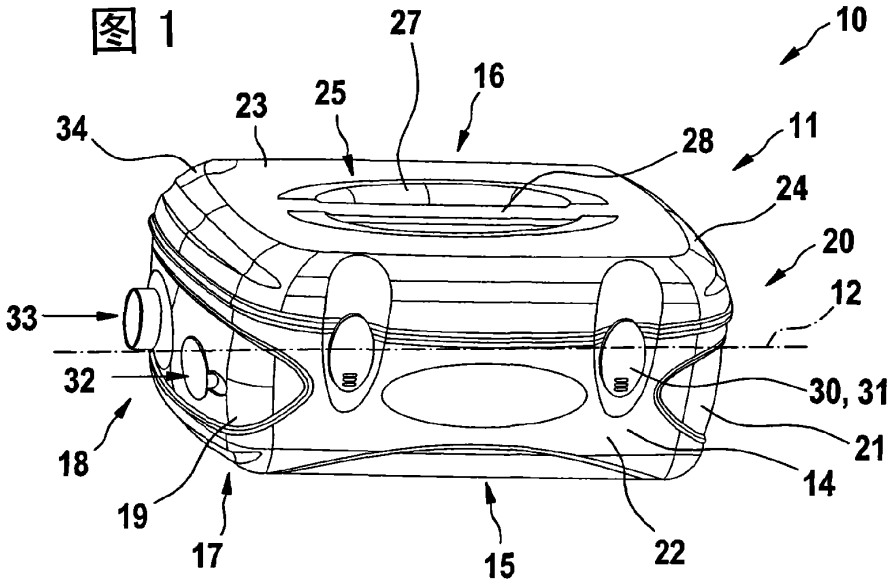
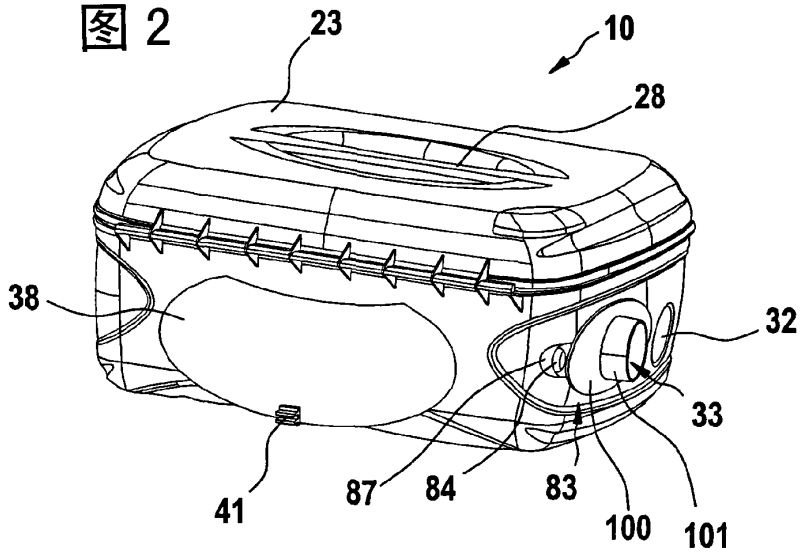
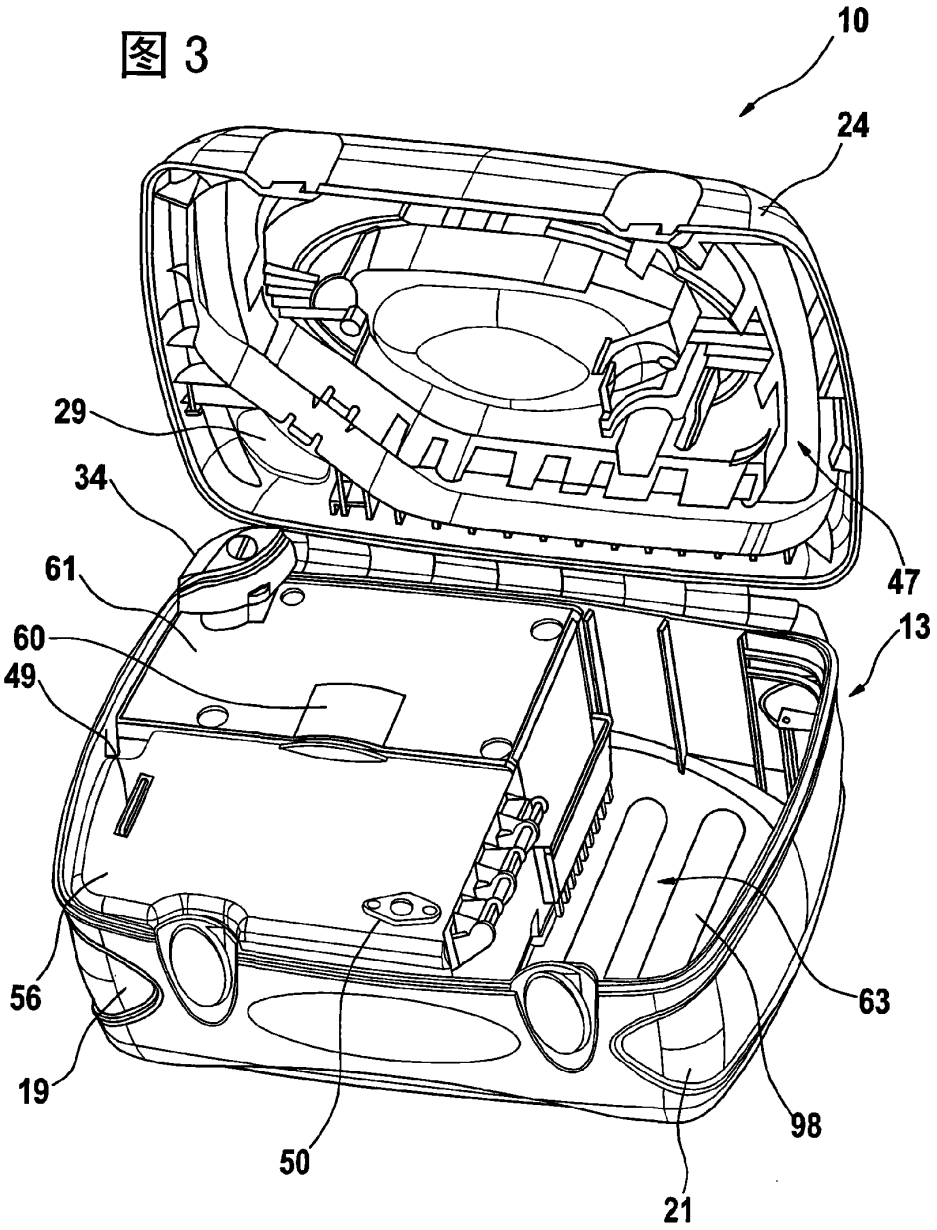


图 2



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图 3



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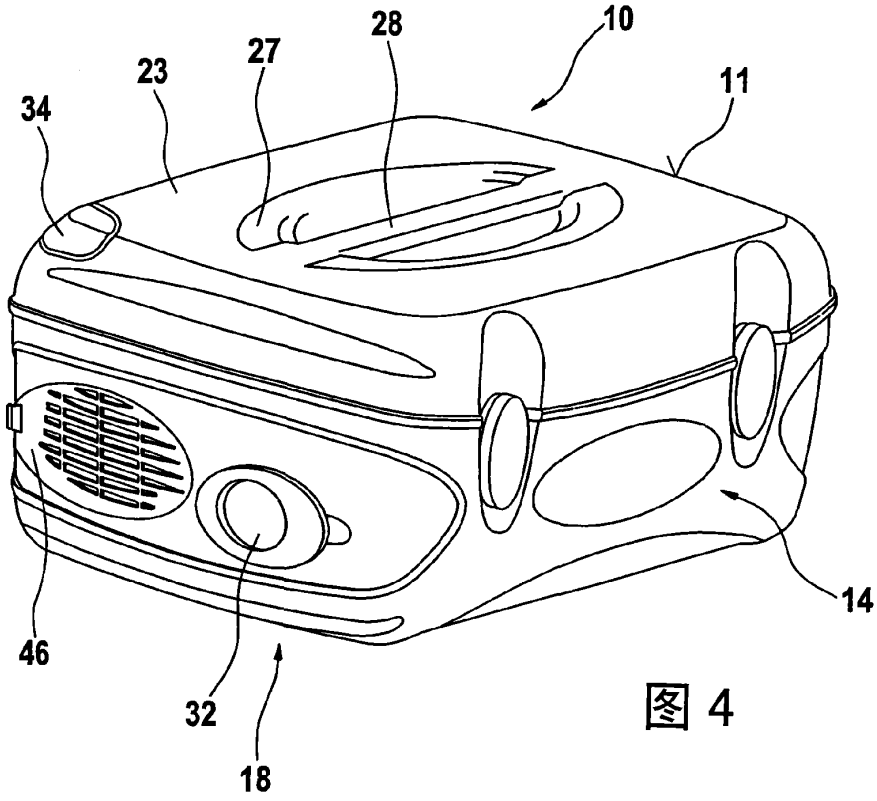
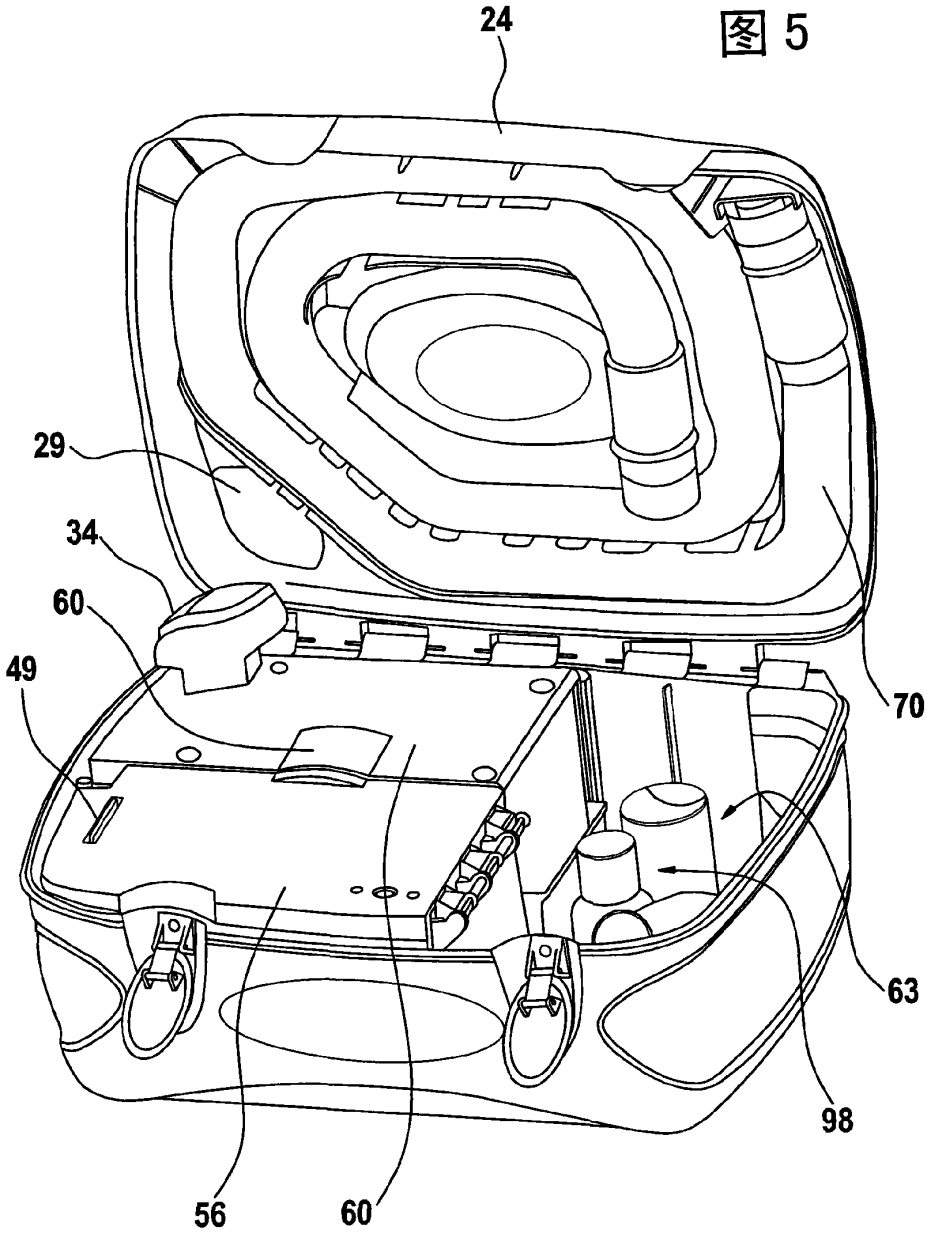


图 4

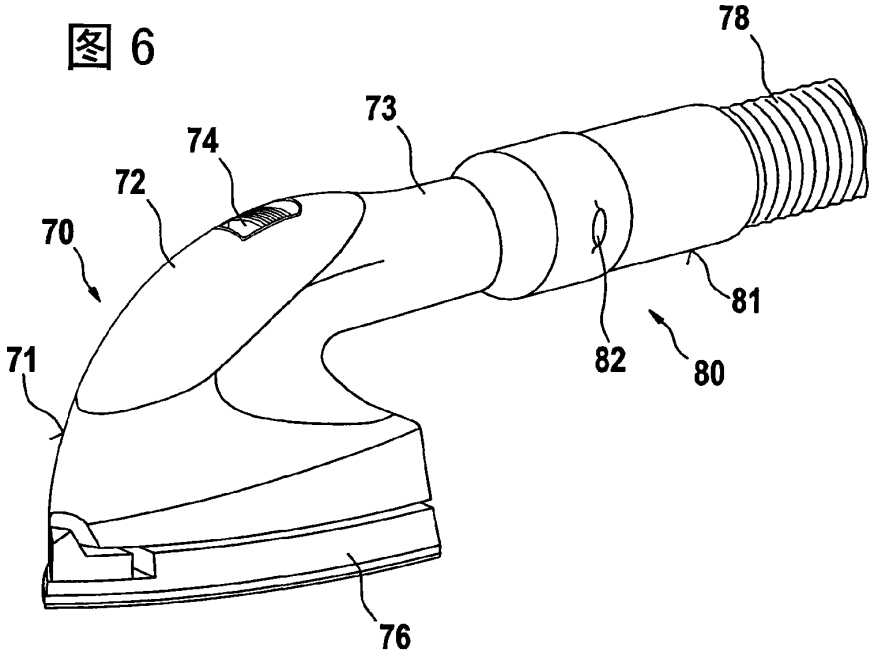
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图 5



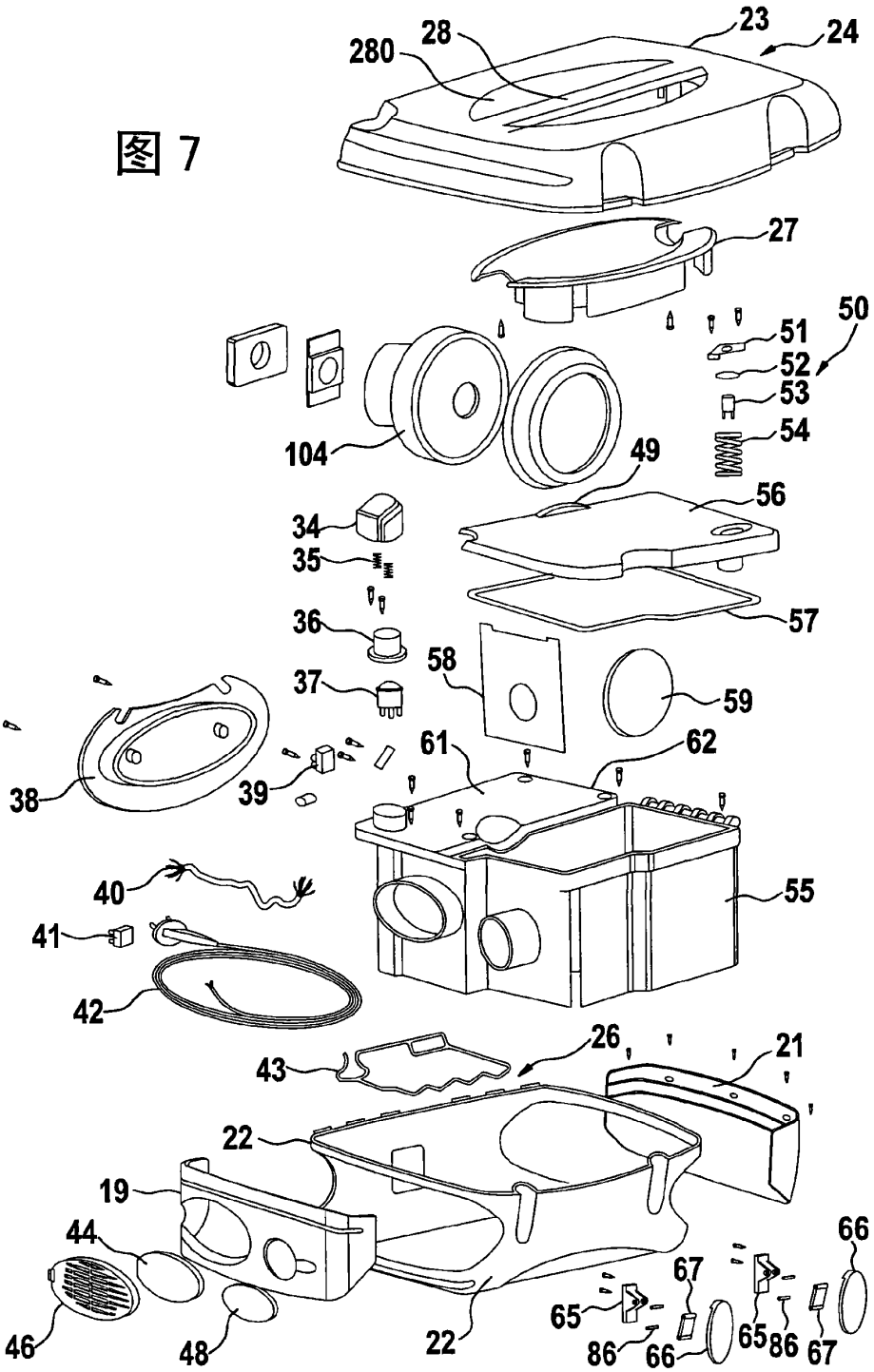
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图 6



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图 7



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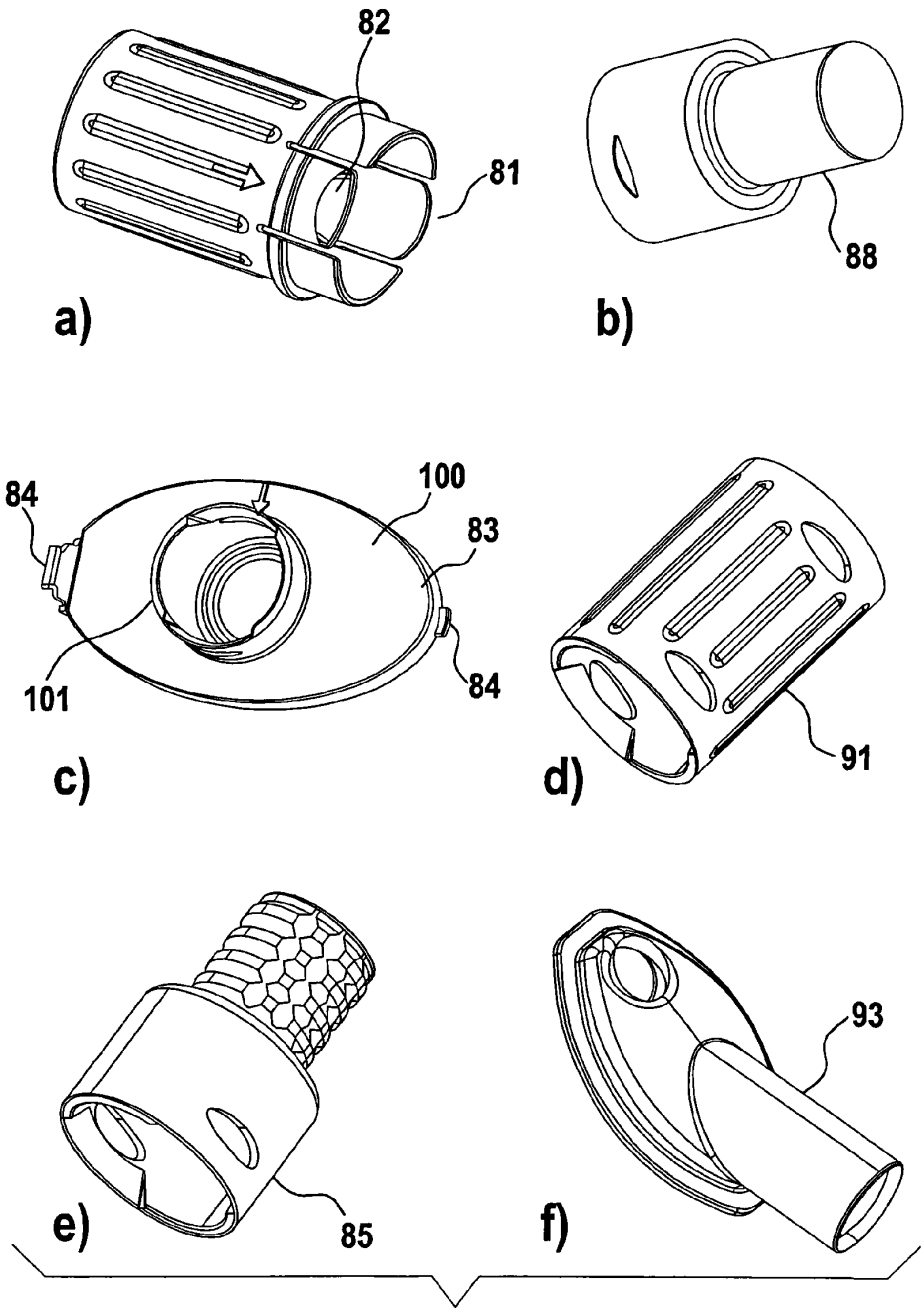


图 8a-f

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Espacenet

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Adapter device for a portable cleaning appliance and cleaning device having an adapter device and a cleaning appliance

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Applicant(s): KAERCHER GMBH & CO KG ALFRED ± (KAERCHER GMBH. & CO. KG. ALFRED)

Classification: - international: ***A47L9/00; B25H3/00***
- cooperative: **A47L9/0009**; **A47L9/009**; **B25H3/00**

Application number: CN200980160516 20090720

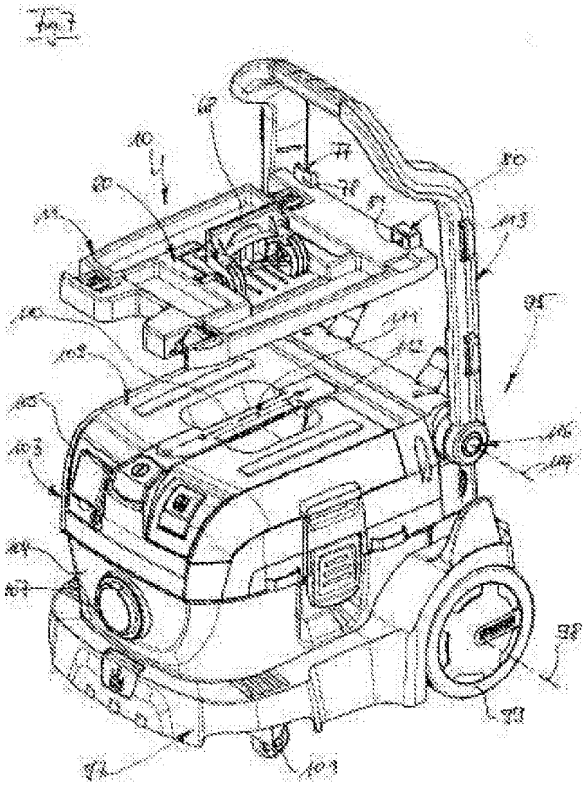
Priority number(s): WO2009EP59320 20090720

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Abstract of CN102469899 (A)

The invention relates to an adapter device (10) for the arrangement of a container (120) on the housing (105) of a portable cleaning appliance (95). The adapter device (10) comprises an adapter plate (11), which can be placed on the top surface (109) of the housing (105) and which has a storage surface (20) on the top side for placing the container (120), and a locking device (60) for detachably locking the adapter plate (11) to the housing (105) of the cleaning appliance (95) without tools. The invention further relates to a cleaning device comprising a cleaning appliance (95) and such an adapter device (10).

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B25H 3/00(2006.01)

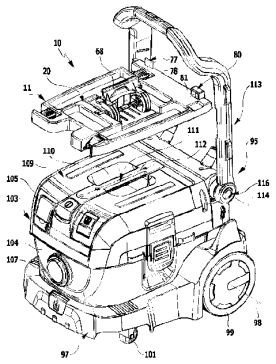
权利要求书 2 页 说明书 8 页 附图 10 页

(54)发明名称

用于能携带的清洁器的适配设备以及具有适配设备和清洁器的清洁装置

(57)摘要

适配设备(10),用于将容器(120)布置在能携带的清洁器(95)的壳体(105)上。该适配设备(10)包括适配盘(11),该适配盘能安放到壳体(105)的覆盖面(109)上,并且在上侧具有:用于放置容器(120)的搁放面(20);以及用于使适配盘(11)与清洁器(95)的壳体(105)免工具可拆卸地锁紧的锁紧装置(60)。具有清洁器(95)和这种适配设备(10)的清洁装置。



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1. 适配设备，用于容器 (120) 在能携带的清洁器 (95) 的壳体 (105) 上的布置，其特征在于，所述适配设备 (10) 具有适配盘 (11)，所述适配盘能安放到所述壳体 (105) 上并且在上侧具有：用于放置所述容器 (120) 的搁放面 (20)；以及用于使所述适配盘 (11) 与所述清洁器 (95) 的所述壳体 (105) 免工具能拆卸地锁紧的锁紧装置 (60)。

2. 根据权利要求 1 所述的适配设备，其特征在于，所述适配盘 (11) 能借助所述锁紧装置 (60) 与所述清洁器 (95) 的所述壳体 (105) 的能从后方抓握的壳体件 (111) 免工具能拆卸地锁紧。

3. 根据权利要求 1 或 2 所述的适配设备，其特征在于，所述适配盘 (11) 能借助所述锁紧装置 (60) 与所述清洁器 (95) 的携带抓握件 (111) 免工具能拆卸地锁紧，所述携带抓握件布置在所述清洁器 (95) 的所述壳体 (105) 的上侧上。

4. 根据权利要求 1、2 或 3 所述的适配设备，其特征在于，所述锁紧装置 (60) 具有至少一个锁紧构件 (65、66)，所述至少一个锁紧构件以能在锁紧位置与释放位置之间来回运动的方式保持在所述适配盘 (11) 上。

5. 根据权利要求 4 所述的适配设备，其特征在于，所述锁紧装置 (60) 具有能由用户抓取的锁紧把手 (68)，所述锁紧把手与所述至少一个锁紧构件 (65、66) 连接。

6. 根据权利要求 5 所述的适配设备，其特征在于，在所述至少一个锁紧构件 (65、66) 的所述释放位置中所述锁紧把手 (68) 由所述适配盘 (11) 的所述搁放面 (20) 突出，并且在所述至少一个锁紧构件 (65、66) 的所述锁紧位置中所述锁紧把手 (68) 不由所述适配盘 (11) 的所述搁放面 (20) 突出。

7. 根据权利要求 5 或 6 所述的适配设备，其特征在于，所述锁紧把手 (68) 设计为呈板形，并且在所述至少一个锁紧构件 (65、66) 的所述锁紧位置中所述锁紧把手 (68) 布置在所述搁放面 (20) 的平面中或所述搁放面 (20) 的平面下方。

8. 根据权利要求 4 至 7 中任一项所述的适配设备，其特征在于，所述至少一个锁紧构件 (65、66) 能绕摆动轴 (51) 摆动。

9. 根据权利要求 4 至 8 中任一项所述的适配设备，其特征在于，所述锁紧装置 (60) 具有彼此刚性连接的并且彼此保持距离布置的两个锁紧构件 (65、66)。

10. 根据权利要求 9 所述的适配设备，其特征在于，所述锁紧把手 (68) 将所述两个锁紧构件 (65、66) 彼此刚性地连接。

11. 根据权利要求 4 至 10 中任一项所述的适配设备，其特征在于，所述至少一个锁紧构件 (65、66) 设计为呈钩状或呈弓状并且在所述锁紧位置中从下方抓握所述清洁器 (95) 的壳体件 (111)。

12. 根据权利要求 5 至 11 中任一项所述的适配设备，其特征在于，所述适配盘 (11) 在上侧具有第一凹部 (22)，所述第一凹部容纳所述锁紧把手 (68)。

13. 根据前述权利要求中任一项所述的适配设备，其特征在于，所述适配设备 (10) 具有携带装置 (38)，所述携带装置具有至少一个携带抓握件 (43)，所述至少一个携带抓握件能由用户环握。

14. 根据权利要求 13 所述的适配设备，其特征在于，所述携带抓握件 (43) 能在携带位置与静止位置之间来回运动，在所述携带位置中所述携带抓握件由所述适配盘 (11) 的所述搁放面 (20) 突出，在所述静止位置中所述携带抓握件不由所述适配盘 (11) 的所述搁放

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面 (20) 突出。

15. 根据权利要求 13 或 14 所述的适配设备，其特征在于，所述适配设备 (10) 的所述携带抓握件 (43) 能绕摆动轴 (51) 摆动。

16. 根据权利要求 14 或 15 所述的适配设备，其特征在于，所述适配盘 (11) 在上侧具有第二凹部 (24)，所述第二凹部容纳所述携带抓握件 (43)。

17. 根据权利要求 13 至 16 中任一项所述的适配设备，其特征在于，所述适配设备 (10) 的所述携带装置 (39) 能摆动地支承在所述适配盘 (11) 上。

18. 根据权利要求 13 至 17 中任一项所述的适配设备，其特征在于，所述锁紧装置 (60) 保持在所述携带装置 (38) 上。

19. 根据权利要求 18 所述的适配设备，其特征在于，所述锁紧装置 (60) 能运动地支承在所述携带装置 (38) 上。

20. 根据前述权利要求中任一项所述的适配设备，其特征在于，所述适配盘 (11) 具有由所述搁放面 (20) 突出的至少一个止档元件 (77、80)，所述容器 (120) 能贴靠到所述至少一个止档元件上。

21. 根据权利要求 20 所述的适配设备，其特征在于，至少一个止档元件 (80) 具有凹座 (81)，用于容纳所述容器 (120) 的凸块。

22. 根据前述权利要求中任一项所述的适配设备，其特征在于，所述适配设备 (10) 具有至少一个锁定元件 (85、88、91)，用于将所述容器 (120) 锁定在所述适配盘 (11) 的所述搁放面 (20) 上。

23. 根据权利要求 22 所述的适配设备，其特征在于，至少一个锁定元件 (85、88、91) 能运动地支承在所述适配盘 (11) 的上侧的凹部 (83、87、90) 中。

24. 清洁装置，其具有：能携带的清洁器 (95)，所述清洁器具有壳体 (104、105)；和根据前述权利要求中任一项所述的适配设备 (10)。

25. 根据权利要求 24 所述的清洁装置，其特征在于，所述清洁器 (95) 的所述壳体 (105) 具有能从后方抓握的壳体件 (111)，所述锁紧装置 (60) 与所述壳体件配合作用，用于使所述适配盘 (11) 与所述壳体 (105) 免工具能拆卸地锁紧。

26. 根据权利要求 24 或 25 所述的清洁装置，其特征在于，所述清洁器 (95) 具有携带抓握件 (111) 并且所述适配设备 (10) 的所述适配盘 (11) 能借助所述锁紧装置与所述携带抓握件 (111) 免工具能拆卸地锁紧。

27. 根据权利要求 24、25 或 26 所述的清洁装置，其特征在于，所述清洁器设计为吸尘器 (95)。

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用于能携带的清洁器的适配设备以及具有适配设备和清洁器的清洁装置

技术领域

[0001] 本发明涉及一种用于将容器布置在能携带的清洁器的壳体上的适配设备。

[0002] 此外，本发明涉及一种清洁装置，其具有：能携带的清洁器，该清洁器具有壳体；和前述类型的适配设备。

背景技术

[0003] 能携带的清洁器以例如能携带的吸尘器或能携带的高压清洁器的形式使用。这些清洁器例如在施工工地但也在其他使用地点使用。清洁器能由用户携带。通常清洁器也能行进并且为此具有适合的滚轮。

[0004] 为了运输到使用地点在很多情况下清洁器定位在运输车辆中，并且因为在大多数情况中运输车辆的储藏空间受限制，在运输期间将容器、例如工具箱或容纳器具的其他容器放到清洁器上。如果运输车辆到达其目的地，则容器同样如清洁器那样从运输车辆取出并且接下来携带到实际的使用地点。

[0005] 由 EP 0 916 302 B1 公知以吸尘器形式的清洁器，该清洁器的壳体在上侧构造成具有凹部的覆盖面，容器能插入到该凹部中。借此避免容器在壳体的覆盖面上滑动。额外地，容器能借助在覆盖面的凹部中的锁定元件锁定。这具有如下优势，即，吸尘器能与容器一起由用户以单个运输单元的形式运动。当然要求容器精确地具有在吸尘器覆盖面上的凹部的外型尺寸。也就是说容器和吸尘器必须在其外型尺寸方面精确地彼此匹配。

发明内容

[0006] 本发明的任务在于，提供一种设备，借助该设备能将容器布置在能携带的清洁器的壳体上，用于清洁器与容器一起的共同运输。

[0007] 根据本发明，该任务通过具有权利要求 1 的特征的适配设备解决。根据本发明的适配设备包括适配盘，该适配盘能安放到清洁器的壳体上。此外，适配设备包括锁紧装置，借助该锁紧装置适配盘与清洁器的壳体能免工具地可拆卸地锁紧。适配盘在上侧具有搁放面用于放置容器。

[0008] 在本发明中加入如下思想，即，通过提供适配盘能以简单的方式形成由容器、适配盘和清洁器组成的紧凑的运输单元用于共同的运输，该适配盘一侧地，也就是在其下侧上与能携带的清洁器的壳体匹配，并且另外一侧地，也就是在其上侧上为了与清洁器一起待运输的容器具有平面的搁放面。适配盘能安放到清洁器的壳体上并且能接下来借助锁紧装置与清洁器的壳体免工具地锁紧。锁紧装置与清洁器的壳体配合作用。在上侧，能安放容器、例如工具箱或附件箱到适配盘上。容器能在需要的情况下从适配盘上移除，额外地也能将适配盘从清洁器上拆卸。适配盘与清洁器壳体的锁紧和解锁不使用专用工具地进行，尤其不需要将适配盘与清洁器例如拧紧。

[0009] 适配盘因此如下地扩展了清洁器的应用可能性，即，容器、优选工具箱或附件箱能

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放置在清洁器上并且与该清洁器共同运输。

[0010] 优选地适配盘借助锁紧装置能与清洁器壳体的可从后方抓握的壳体件免工具可拆卸地锁紧。例如壳体接板、可从后方抓握的壳体凸块或类似物可用作可从后方抓握的壳体件。额外地，清洁器上的锁紧元件能由此取消。

[0011] 如果适配盘借助锁紧装置能与清洁器的携带抓握件免工具可拆卸地锁紧，是特别有利的。携带抓握件优选地布置在清洁器壳体的上侧。该携带抓握件通常设计得非常坚固并且与清洁器的重量匹配，从而适配盘与携带抓握件的的锁紧能机械上非常能负载地设计。

[0012] 有利地，锁紧装置包括至少一个锁紧构件，该锁紧构件以能在锁紧位置与释放位置之间来回运动的方式保持在适配盘上。在至少一个锁紧构件的锁紧位置中，适配盘不可运动地固定在清洁器壳体上。为此至少一个锁紧构件能从后方抓握或环握例如在清洁器上侧上布置的可从后方抓握的壳体件、尤其携带抓握件。如果要将适配盘从清洁器上拆卸下来，则可以为此将至少一个锁紧构件无需使用工具地转移到释放位置，在该释放位置中锁紧构件释放壳体。

[0013] 如果锁紧装置具有可由用户抓取的、与至少一个锁紧构件相连接的锁紧把手，是特别有利的。借助该锁紧把手，用户能将至少一个锁紧构件以简单的方式不使用附加的工具地在该锁紧构件的锁紧位置与该锁紧构件的释放位置之间来回运动。

[0014] 在有利的实施方式中，在至少一个锁紧构件的释放位置中锁紧把手由适配盘的搁放面突出，并且在至少一个锁紧构件的锁紧位置中锁紧把手不由适配盘的搁放面突出。如果锁紧手柄占据如下定位，即在该定位中至少一个锁紧构件占据该锁紧构件的释放位置，则在锁紧把手的这类设计中搁放面在所有情况下会受妨碍。在该位置中适配盘能从清洁器上移除。但是，如果至少一个锁紧构件处在其锁紧位置中，则锁紧把手以如下方式布置，即，该锁紧把手不由搁放面突出并且因此不妨碍在搁放面上的容器的放置。

[0015] 例如能如下地设置，即，锁紧把手设计为呈板形的，其中，在至少一个锁紧构件的锁紧位置中该锁紧把手分布在搁放面的平面中或搁放面的平面下方。

[0016] 为了用户能以简单的方式抓取锁紧把手，如果锁紧把手能从后方抓握，是有利的。

[0017] 至少一个锁紧构件在本发明的有利的实施方式中可绕摆动轴摆动。因此该锁紧构件能在其锁紧位置与其释放位置之间来回摆动。摆动轴优选地能平行于在上侧在清洁器壳体上所布置的携带抓握件的纵轴地取向。

[0018] 有利地，锁紧装置包括两个彼此刚性相连的并且相对彼此保持距离地布置的锁紧构件。这提高了锁紧装置的机械负载能力和与携带抓握件锁紧的适配盘的机械负载能力。

[0019] 优选地，锁紧把手将两个锁紧构件彼此刚性地连接起来。

[0020] 有利地，至少一个锁紧构件设计为呈钩状或呈弓状的，并且在锁紧位置中从下方抓握清洁器的壳体件、例如携带抓握件。

[0021] 在优选的实施方式中，适配盘在上侧具有第一凹部，该第一个凹部容纳锁紧把手。在至少一个锁紧构件的锁紧位置中，锁紧把手能完全地沉入到适配盘的第一凹部中，从而适配盘的搁放面不通过锁紧把手受妨碍。

[0022] 如果锁紧把手在至少一个锁紧构件的锁紧位置中至少部分地盖住第一凹部并且扩展适配盘的搁放面，是特别有利的。

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[0023] 如已经阐释的，适配设备为了能携带的清洁器而设置。为了当适配盘与清洁器的壳体锁紧时，然后也能携带清洁器，在本发明的优选的实施方式中如此地设置，即，适配设备具有携带装置，该携带装置具有至少一个能由用户环握的携带抓握件。如果适配盘与清洁器的壳体锁紧，那么借助适配设备的携带抓握件能携带由清洁器和适配设备所组成的完整的清洁装置。

[0024] 有利地，适配设备的携带抓握件可在携带位置与静止位置之间来回运动，在携带位置中携带抓握件由适配盘的搁放面突出，在静止位置中携带抓握件不由适配盘的搁放面突出。因此携带抓握件为了将适配设备连同清洁器一起携带对用户来说能够以简单的方式在搁放面的区域内达到，该携带抓握件在其携带位置由搁放面突出。但是，如果要将容器放置到搁放面上，则可以将适配设备的携带抓握件转移到静止位置，在该静止位置中携带抓握件不突出搁放面进而也不妨碍搁放面的大小。

[0025] 优选地，适配设备的携带抓握件能绕摆动轴摆动。这使适配设备的携带抓握件的由其静止位置到其携带位置并且回到静止位置中的转移更容易。在每个位置中，适配设备的携带抓握件对用户来说能以简单的方式达到。摆动轴能优选地平行于在上侧在清洁器壳体上所布置的携带抓握件的纵轴地取向。

[0026] 可以设置，适配盘在上侧具有第二凹部，该第二凹部容纳携带抓握件。适配设备的所述携带抓握件在其静止位置中完全沉入到适配盘的第二凹部中。需要的时候用户能由适配盘的第二凹部中取出适配设备的携带抓握件，并且转移到该携带抓握件的携带位置，在该携带位置中携带抓握件由搁放面突出。

[0027] 如果适配设备的携带抓握件在其静止位置中至少部分地填满第二凹部并且扩展了适配盘的搁放面，是有利的。

[0028] 有利地，适配设备的携带装置能摆动地支承在适配盘上。

[0029] 如果锁紧装置保持在适配设备的携带装置上，是有利的。这使适配设备不仅在与清洁器的壳体锁紧时而且在与清洁器一起携带时的处理简化。此外，使得将锁紧装置保持在携带装置上成为可能，在第一装配步骤中将锁紧装置装配在携带装置上，并且然后在第二装配步骤中能将由锁紧装置和携带装置所组成的结构单元装配在适配盘上。由此能使装配成本低地保持。

[0030] 可以设置，锁紧装置和携带装置刚性地彼此相连，并且在适配盘上可运动地保持。在此情况下可以设置，由锁紧装置和携带装置组成的结构单元能在如下第一位置与第二位置之间经过第二位置来回运动，在第一位置中至少一个锁紧构件从后方抓握清洁器的壳体件并且适配设备的携带抓握件占据其静止位置，在第二位置中至少一个锁紧构件同样地从后方抓握清洁器的壳体件，但适配设备的携带抓握件占据其携带位置，在第三位置中至少一个锁紧构件释放清洁器的壳体件并且适配设备的携带抓握件占据不工作位置。根据由锁紧装置和携带装置组成的结构单元的位置的不同，适配盘可以与清洁器的壳体件锁紧或解锁并且适配设备的携带抓握件可以占据其静止位置或也可以占据其携带位置。

[0031] 在本发明的优选设计方案中，锁紧装置可运动地支承在携带装置上。这给出了如下的可能性，即，锁紧装置相对于携带装置运动。尤其在这种实施方式中至少一个锁紧构件能在该锁紧构件的锁紧位置与释放位置之间来回运动，而携带装置不需要在此改变相对于适配设备的该携带装置的状况 (Lage)。相反地携带抓握件可以改变其相对于适配设备的定

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位，而不需要改变锁紧装置的位置。由此，携带抓握件能在其静止位置与其携带位置之间来回运动，而不影响适配盘与清洁器壳体的锁紧。

[0032] 在有利的实施方式中设置，锁紧装置可摆动地支承在携带装置上。

[0033] 有利地锁紧装置和携带装置保持在适配盘上，其中，锁紧装置和携带装置能彼此无关地各绕共同的摆动轴以 90° 摆动。在此情况下，共同的摆动轴可以平行于在上侧在清洁器壳体上所布置的携带抓握件的纵轴地取向。

[0034] 在有利的实施方式中，适配设备的装配由此简化，即，锁紧装置能与携带装置锁止。

[0035] 如已经阐释过的那样，容器、例如工具箱或附件箱能放置到适配盘的搁放面上。在此情况下有利的是，适配盘具有至少一个由搁放面突出的止档元件，容器可以贴靠到该止档元件上。止档元件使容器在适配盘的搁放面上的定位更容易。

[0036] 有利地至少一个止档元件具有用于容纳容器的凸块的凹座。容器可以具有例如呈塞形的凸块，这些凸块由适配设备的止档元件的凹座所容纳。

[0037] 如果适配设备具有至少一个用于将容器锁定在适配盘的搁放面上的锁定元件，是特别有利的。由此，能可靠地防止容器从搁放面的无意地松开。

[0038] 优选地至少一个锁定元件在适配盘的上侧的凹部中可运动地、尤其可摆动的受支承。该锁定元件可以为了锁定容器由适配盘的所配属的凹部里运动出来、尤其摆动出来，以便然后与容器的互补的锁定元件配合作用。

[0039] 如开头所提到的那样，本发明不仅涉及前文述及类型的适配设备，而且还涉及具有这种适配设备和能携带的清洁器的清洁装置。

[0040] 优选地清洁器包括可从后方抓握的壳体件、例如壳体接板或壳体凸块或类似物，并且适配设备的锁紧装置与可从后方抓握的壳体件配合作用，用于免工具可拆卸地将适配盘与壳体锁紧。因此不需要清洁器上的附加的用于锁紧适配盘的锁紧元件。

[0041] 如果清洁器具有携带抓握件并且适配设备的适配盘能借助锁紧装置与该携带抓握件免工具可拆卸地锁紧是尤其特别有利的。

[0042] 在本发明的有利的设计方案中，携带抓握件布置在清洁器壳体的上侧上。尤其可以设置，该携带抓握件整合到壳体的上侧覆盖面中，适配盘能安放到该覆盖面上。

[0043] 清洁器优选地设计为吸尘器。当然也能设置，清洁器以高压清洁器的形式构造。

[0044] 在根据本发明的清洁装置的特别优选的实施方式中，清洁器具有可行进的、其上可转动地支承有滚轮的基座以及在该基座上所布置的具有抓握弓形件的清洁机组(Reinigungsaggregat)，其中，该清洁机组具有壳体，适配盘能与该壳体锁紧，并且其中，抓握弓形件在竖立的位置中基本垂直于在该壳体上锁定的适配盘的搁放面取向。在这种实施方式中，清洁器借助基座可行进，并且在适配盘与清洁器的壳体锁紧后，容器能摆放到适配盘的搁放面上，然后该容器也可以支撑在竖立的抓握弓形件上。该抓握弓形件在其竖立位置中基本上垂直于适配盘的搁放面地取向。因此容器能超过适配盘凸出并且容器在其凸出的区域中支撑在抓握弓形件上。

[0045] 如果清洁器与至少一个布置在适配盘的搁放面上的容器一起能绕两个滚轮的共同的转动轴摆动，是特别有利的。清洁器能然后与锁定在清洁器上的适配设备和至少一个容器一起按照袋式手拖车的形式行进。容器能借助适配设备可靠地定位在清洁器上，优选

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地该容器能锁定在适配盘上。在此情况下如果容器在上侧具有携带抓握件是特别有利的，从而用户能在如下步骤之后将容器与适配设备和清洁器一起携带，即，事先在第一步骤中将适配盘锁定在清洁器的壳体上并且然后将容器锁定在适配盘上。用户可以然后选择，他是否将整个清洁装置连同在上侧布置的容器一起绕清洁器的两个滚轮的共同转动轴摆动，并且使带有容器的清洁器按照袋式手拖车的形式行进，或者他是否为了越过台阶将容器连同清洁器和在容器与清洁器之间布置的适配设备一起在容器的携带抓握件处提起。

附图说明

[0046] 本发明的优选实施方式的随后的描述用于关联详细阐释的附图。示出：

[0047] 图 1 根据本发明的适配设备的立体图示；

[0048] 图 2 由图 1 所示适配设备的俯视图；

[0049] 图 3 适配设备的沿图 2 中的线 3-3 的剖视图；

[0050] 图 4 根据分解图形式的适配设备的图示；

[0051] 图 5 适配设备的立体图示，其中，携带抓握件占据该携带抓握件的携带位置并且锁紧装置占据该锁紧装置的锁紧位置；

[0052] 图 6 适配设备的立体图示，其中，携带抓握件占据该携带抓握件的静止位置并且锁紧装置占据该锁紧装置的释放位置；

[0053] 图 7 根据本发明的清洁装置的根据分解图形式的立体图示，该清洁装置具有清洁器和适配设备，其中适配设备的锁紧装置占据所述锁紧装置的释放位置；

[0054] 图 8 清洁装置的立体图示，其中，适配设备与清洁器锁紧；

[0055] 图 9 清洁装置的立体图示，其中，适配设备与清洁器锁紧，并且适配设备的携带抓握件占据其携带位置；和

[0056] 图 10 带有两个在清洁装置上方布置的容器的清洁装置的立体图示。

具体实施方式

[0057] 在图 1 至图 6 中示出根据本发明的适配设备 10，该适配设备能安放到在图 7 至图 10 所示出的清洁器的壳体的覆盖面上并且在该适配设备的方面为容器形成了搁放面，该容器如在图 10 中所示的那样。

[0058] 适配设备 10 具有适配盘 11，该适配盘在俯视图中基本构型为呈矩形的，其中，该适配盘在前缘 12 处具有中心凹口 13。适配盘 11 的后缘 15 构造为呈直线型的，并且第一纵向缘 16 同样如第二纵向缘 17 那样具有略微凸出的向外弯曲的构型。两个纵向缘 16 和 17 彼此背离并且各将后缘 15 与前缘 12 连接。

[0059] 适配盘 11 的上侧 19 具有平面的搁放面 20 以及居中的基本呈 U 形的第一凹部 22 和与该第一凹部联接的、呈矩形的第二凹部 24，与第二纵向缘 17 紧邻地将第三呈矩形的凹部 26 联接到第二凹部 24 上。与第一纵向缘 16 紧邻地，适配盘 11 在其上侧 19 上具有第四呈矩形的凹部 28，并且与中心凹口 13 邻接地在第三和第四凹部 26、28 之间布置有第五呈矩形的凹部 30。

[0060] 在第一与第二凹部 22、24 之间的过渡区域中，第一止动凹座 34 和第二止动凹座 36 对齐彼此地造型到上侧 19 中。携带装置 38 锁止到两个止动凹座 34 和 36 中。携带装置 38

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包括呈 U 形的具有第一携带臂 41 和第二携带臂 42 的携带弓形件 40，这两个携带臂通过呈桥板状的携带抓握件 43 整体式地彼此相连接。在这两个携带臂的彼此背离的外表面 45 或 46 上，两个携带臂 41 和 42 在它们的自由端部处承载有第一关节销 48 或第二关节销 49。两个关节销对齐彼此地取向并且能借助第一止动凹座 34 或借助第二止动凹座 36 锁止。在关节销 48 和 49 与止动凹座 34 和 36 锁止后，这两个关节销 48 和 49 限定了摆动轴 51，该摆动轴垂直于后缘 15 分布并且携带装置 38 能绕该摆动轴摆动。这提供了如下可能性，即，携带弓形件 40 进而还有携带抓握件 43 在静止位置与携带位置之间来回摆动，在静止位置中携带弓形件完全沉入到呈 U 形的第一凹部 22 中，在携带位置中携带弓形件 40 垂直于搁放面 20 取向并且携带抓握件 43 能由用户环握。如携带位置例如在图 5 中所示出的那样，携带弓形件 40 进而还有携带抓握件 43 在携带位置中由搁放面 20 中突出。相反地在静止位置中携带弓形件 40 完全填满第一凹部 22 并且因此扩展了平面的搁放面 20。这尤其由图 1 表明。

[0061] 在两个携带臂的彼此面朝的内表面 54 或 55 上，两个携带臂 41 和 42 对齐于关节销 48 和 49 承载有第三关节销 57 或第四关节销 58。借助这些关节销锁止适配设备 10 的锁紧装置 60。锁紧装置 60 为此具有两个止动夹 62、63，这两个止动夹能借助第三或第四关节销 57、58 锁止，其中，锁紧装置 60 能够绕摆动轴 51 相对于携带装置 38 在图 5 中所示出的锁紧位置与在图 6 中所示出的释放位置之间来回摆动。

[0062] 锁紧装置 60 包括以第一个锁紧弓形件 65 形式的第一锁紧构件和以第二锁紧弓形件 66 形式的第二锁紧构件，这些锁紧构件相同地构型并且通过刚性地、呈板形地构造的锁紧把手 68 彼此相连接。这两个锁紧弓形件 65 和 66 在第二凹部 24 的底部 70 内各配属给穿孔 71 或 72，这些穿孔能在锁紧装置 60 的锁紧位置中由锁紧弓形件 65 或 66 贯穿嵌接。因此在锁紧位置中，锁紧弓形件 65 和 66 借助它们的端部区域 74 和 75 由适配盘 11 的下侧突出。这尤其由图 3 表明。

[0063] 呈板形的锁紧把手 68 在锁紧装置 60 的锁紧位置中至少覆盖第二凹部 24 的部分区域，并且因此在锁紧位置中扩展了搁放面 20。在锁紧装置 60 的锁紧位置中的锁紧把手 68 能由用户从后方抓握。为此，用户能在第二凹部 24 与第三凹部 26 之间的过渡区域中从后方抓握锁紧把手 68。接下来该用户能将锁紧把手 68 与锁紧弓形件 65 和 66 一起绕摆动轴 51 向外摆动到在图 6 中所示出的释放位置中。在该位置中锁紧弓形件 65 和 66 的自由的端部区域 74 和 75 达到第二凹部 24 的底部 70 的高度，但这些锁紧弓形件不再在下侧由适配盘 11 中突出。

[0064] 在后缘 15 的区域中，适配盘 11 在其上侧 19 上承载有由搁放面 20 凸出的、具有相对于搁放面 20 基本垂直取向的第一止挡面 78 的第一止档件 77。并且与第一止档件 77 保持距离地在后缘 15 的区域中，第二止档件 80 由搁放面 20 突出，其中，第二止档件 80 面朝第三凹部 26 地具有呈矩形的凹座 81。

[0065] 在第一止档件 77 与第四凹部 28 之间的区域中，适配盘 11 在其上侧 19 上具有第六凹部 83，该第六凹部汇入第一纵向缘 18 中并且在该凹部中可摆动地支承有以第一止动弓形件 85 形式的第一锁定元件。

[0066] 在第四凹部 28 与适配盘 11 的前缘 12 之间，第七凹部 87 造型到上侧 19 中，该第七凹部如第六凹部 83 那样基本相同地构型并且汇入第一纵向缘 16 中。在第七凹部 87 中，

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以第二止动弓形件 88 形式的第二锁定元件可摆动地受支承。第二止动弓形件 88 如第一止动弓形件 85 那样相同地构型。

[0067] 在第三凹部 26 与适配盘 11 的前缘 12 之间，第八凹部 90 造型到上侧 19 中，该第八凹部基本如第六和第七凹部那样相同地构型，其中，该第八凹部但是以 90° 转动并且汇入前缘 12 中。在该第八凹部 90 中，以第三止动弓形件 91 形式的第三锁定元件可摆动地受支承，该第三止动弓形件如第二止动弓形件 88 和第一止动弓形件 85 那样相同地构造。

[0068] 如已经提到的那样，适配设备 10 为了将容器布置在能携带的清洁器的壳体上而使用。这种清洁器在图 7 至图 10 中以吸尘器 95 的形式示出。该吸尘器包括具有两个绕共同的转动轴 98 可自由转动的后滚轮和两个前滚轮的基座 97，在图中两个后滚轮中只示出了一个后滚轮 99，在图中两个前滚轮中只示出了一个前滚轮 101。借助滚轮 99、101，基座 97 能沿地面行进。

[0069] 抽吸机组 103 安放到基座 97 上，该抽吸机组具有壳体下部 104 和壳体上部 105。壳体下部 104 通常构造有污物收集容器，通过抽吸入口 107 抽吸空气与抽吸物一起能吸入到污物收集容器中。在抽吸入口 107 处通常能联接抽吸软管，该抽吸软管在其自由端部承载有抽吸嘴。这种抽吸软管和抽吸嘴对专业技术人员来说是公知的并且因此未在图中示出。

[0070] 壳体上部 105 通常容纳有抽吸涡轮，该抽吸涡轮由电动马达驱动。借助抽吸涡轮，壳体下部 104 的污物收集容器能用负压加载。

[0071] 壳体上部 104 在其上侧上具有包括中心凹部 110 的覆盖面 109，该中心凹部由携带抓握件 111 呈板桥状地桥接。借助携带抓握件 111 用户能携带吸尘器 95。

[0072] 在壳体上部 105 上在向后的区域中，基本呈 U 形的抓握弓形件 113 绕摆动轴 114 可摆动地受支承。抓握弓形件 113 能绕摆动轴 114 在图 7 至 10 中所示出的摆出的或竖立的位置与图中未示出的摆入的位置之间来回摆动。借助在抓握弓形件 113 的至少一个臂的自由端部上布置的固定装置 116，抓握弓形件 113 可以锁定在其摆出位置中。

[0073] 适配设备 10 能安放到吸尘器 95 的覆盖面 109 上，其中，携带装置 38 的和锁紧装置 60 的摆动轴 51 平行于携带抓握件 111 的纵轴 112 地取向。通过锁紧装置 60 从其在图 7 中所示出的释放位置出发摆动到在图 8 中所示出的锁紧位置中的方法，接下来适配盘 11 可以与吸尘器 95 的携带抓握件 114 锁紧。在锁紧位置中锁紧弓形件 65 和 66 的自由端部区段 74 和 75 从后方抓握吸尘器 95 的携带抓握件 111。因此携带抓握件 111 构造了吸尘器 95 的可从后方抓握的壳体件，利用该壳体件，适配盘 11 借助锁紧装置 60 能免工具可拆卸地锁紧。适配盘 11 由此不可运动地保持在覆盖面 109 上。接下来容器 120 摆放到适配盘 11 的搁放面 20 上，如该容器在图 10 中所示出的那样。其他的容器 122 能定位到容器 120 上。容器 120 能为了在搁放面 20 上的取向以如下方式地定位，即，该容器借助侧面区域碰撞第一止档件 77 的第一止挡面 78 并且借助侧向的呈塞形的凸块嵌入第二止档件 80 的凹座 81 中。接下来容器 120 可以借助止动弓形件 85、88 和 91 锁定在搁放面 20 上。然后容器 20 与适配设备 10 和吸尘器 95 一起共同构造了紧凑的运输单元，该运输单元可以借助基座 97 的滚轮 99 和 101 沿地面行进。此外，该运输单元能绕共同的转动轴 98 向后摆动并且然后按照袋式手推车的形式运动。

[0074] 如果在吸尘器 95 的携带抓握件 111 上锁定的适配盘 11 的搁放面 20 上没有摆放容器 120，则适配设备 10 能与吸尘器 95 一起由用户提起。为此，用户能从携带弓形件 40 的

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静止位置开始将该携带弓形件摆动到该携带弓形件的携带位置中，在静止位置中携带弓形件完全沉入到第一凹部 22 中，在携带位置中携带弓形件和首要地携带抓握件 43 由搁放面 20 突出，从而用户能以手环握携带抓握件 43。这尤其由图 9 表明。

[0075] 因此适配设备 10 给出如下可能性，即，摆放容器 120 到吸尘器 95 上，尽管吸尘器 95 的覆盖面 109 至少在部分区域中拱形隆起并且此外设有凸起部。为此，适配盘 11 在其上侧 19 上限定了用于放置容器 120 的平面的搁放面 20，其中，搁放面 20 为了更容易地定位容器 120 具有向上突出的止档件 77 和 80。借助锁紧装置 60，适配盘 11 以简单的方式锁定在吸尘器 95 的壳体 105 上，从而由适配设备 10 和吸尘器 95 所形成的清洁装置能由用户在携带抓握件 43 处携带。

[0076] 适配设备 10 能由用户以需要的方式使用，其中，该用户能不使用特殊工具将该适配设备固定在吸尘器 95 的壳体 105 上，并且不借助工具又能将其拆卸。

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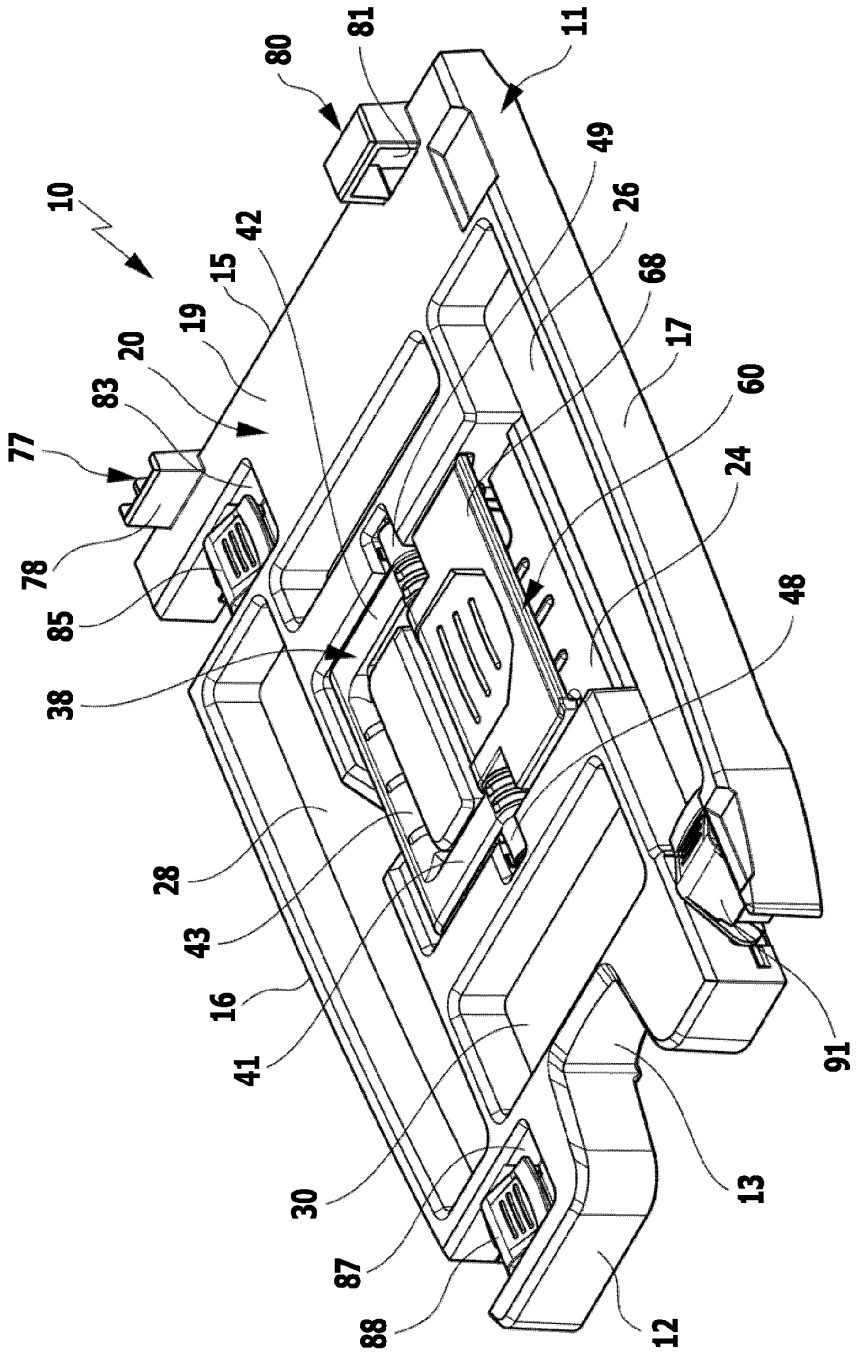


图 1

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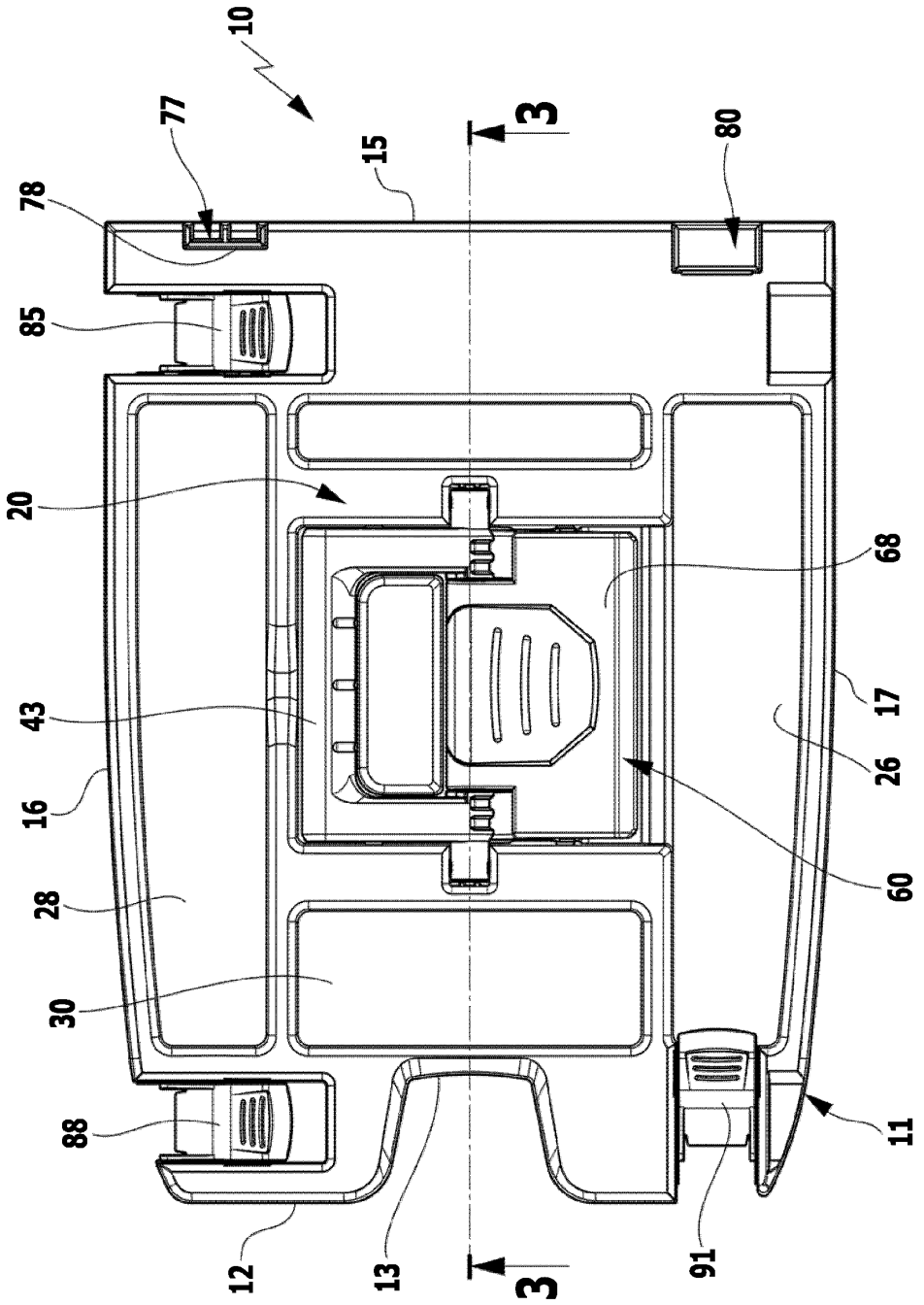


图 2

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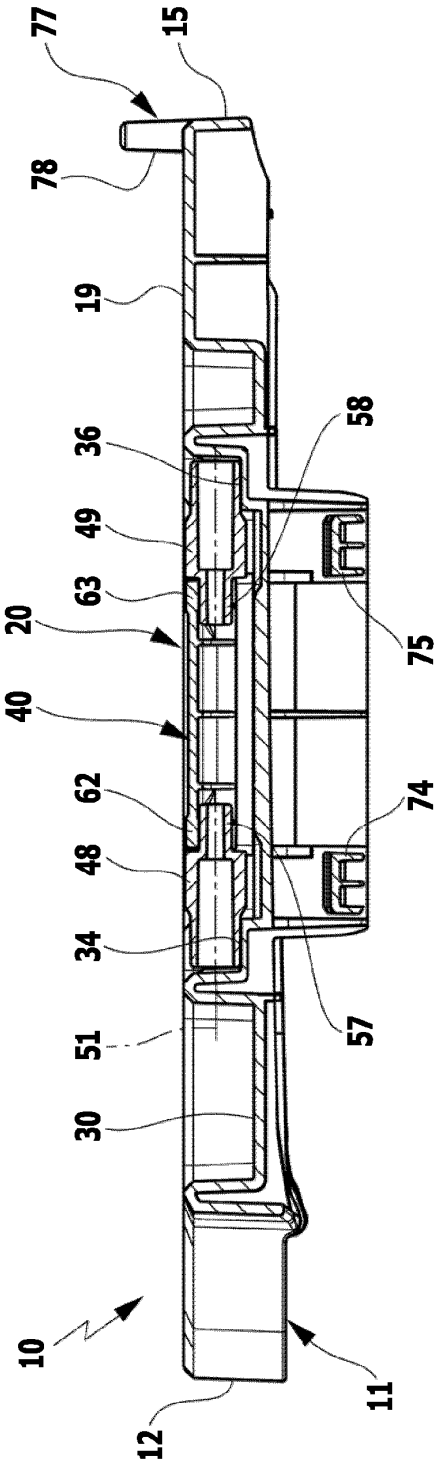


图 3

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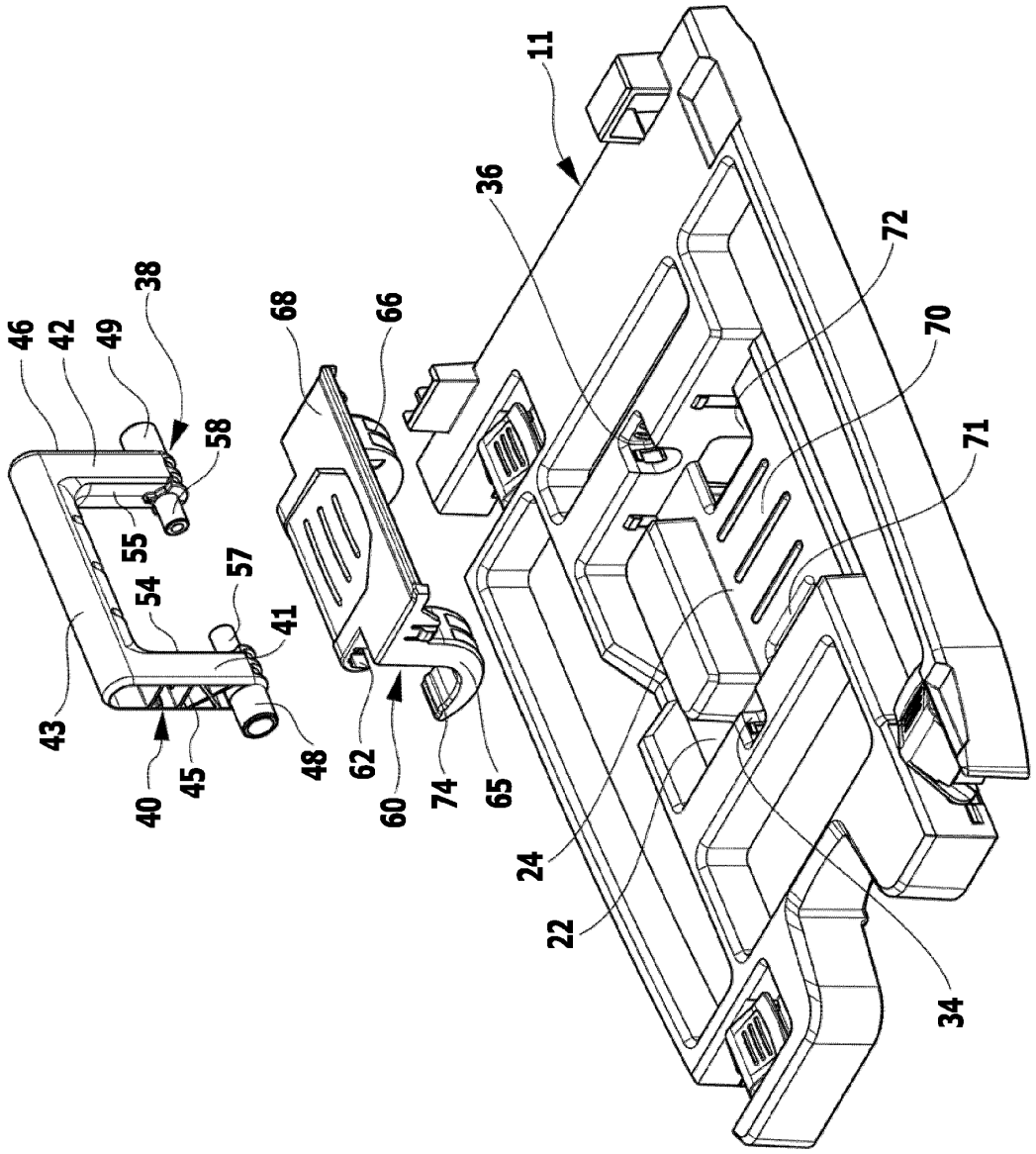


图 4

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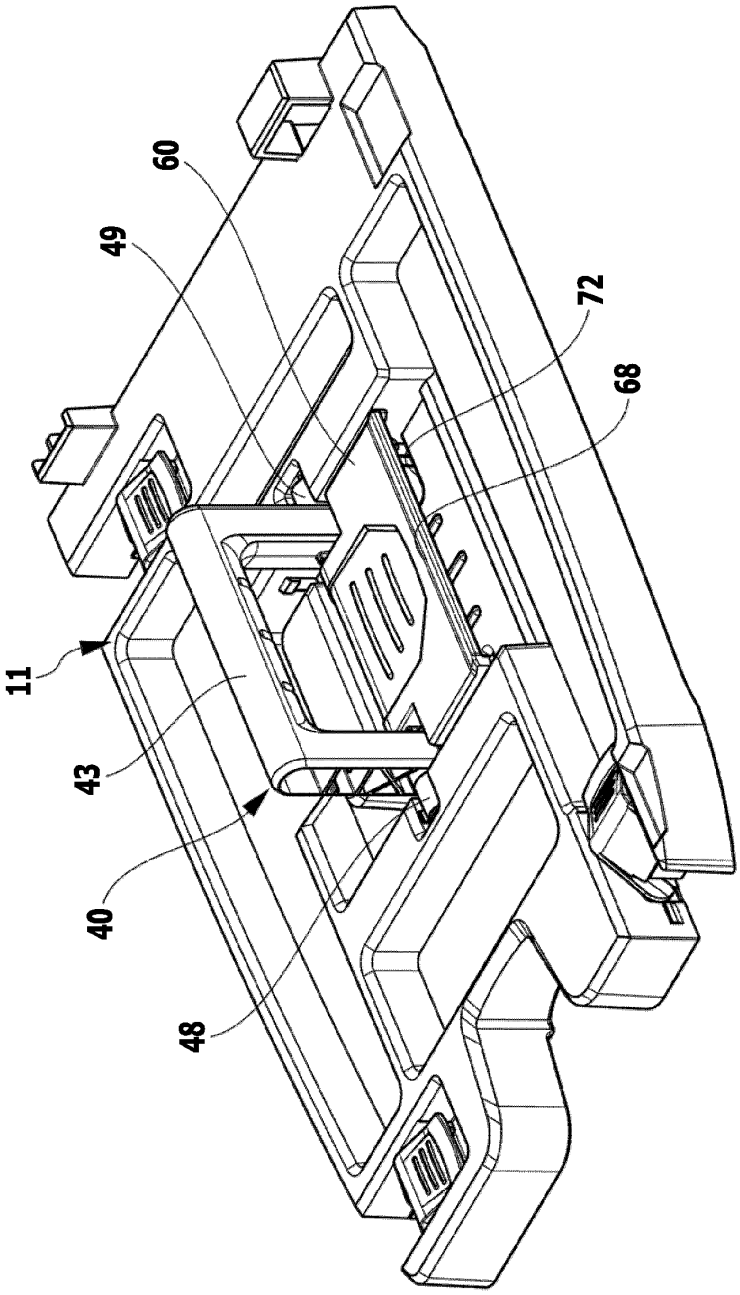


图 5

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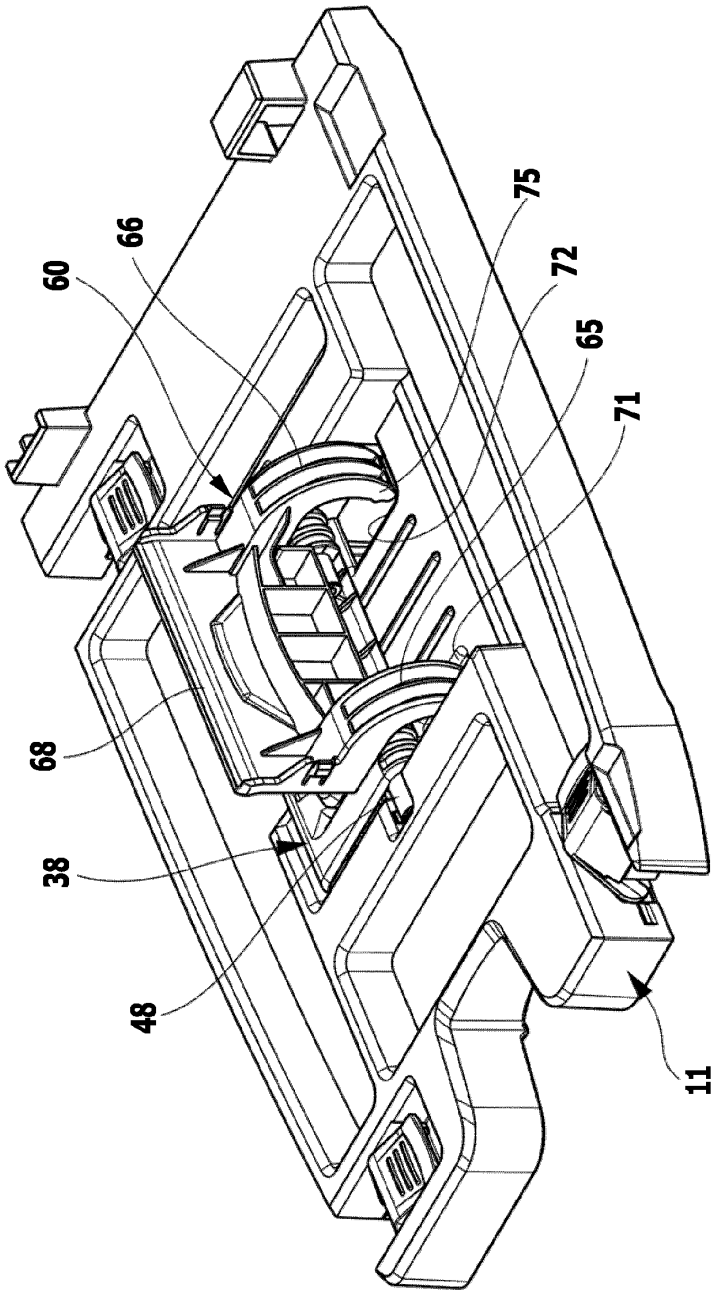


图 6

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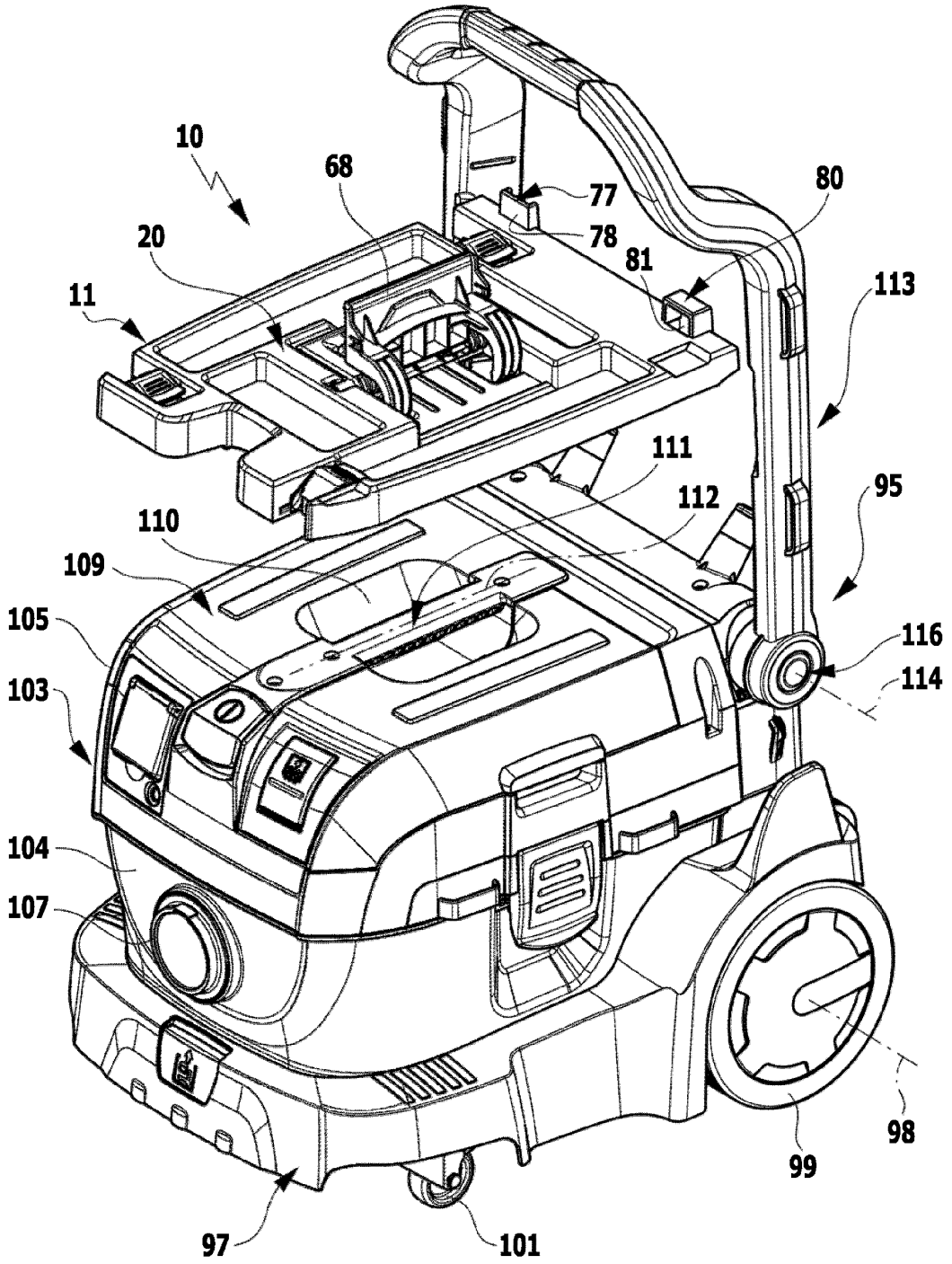


图 7

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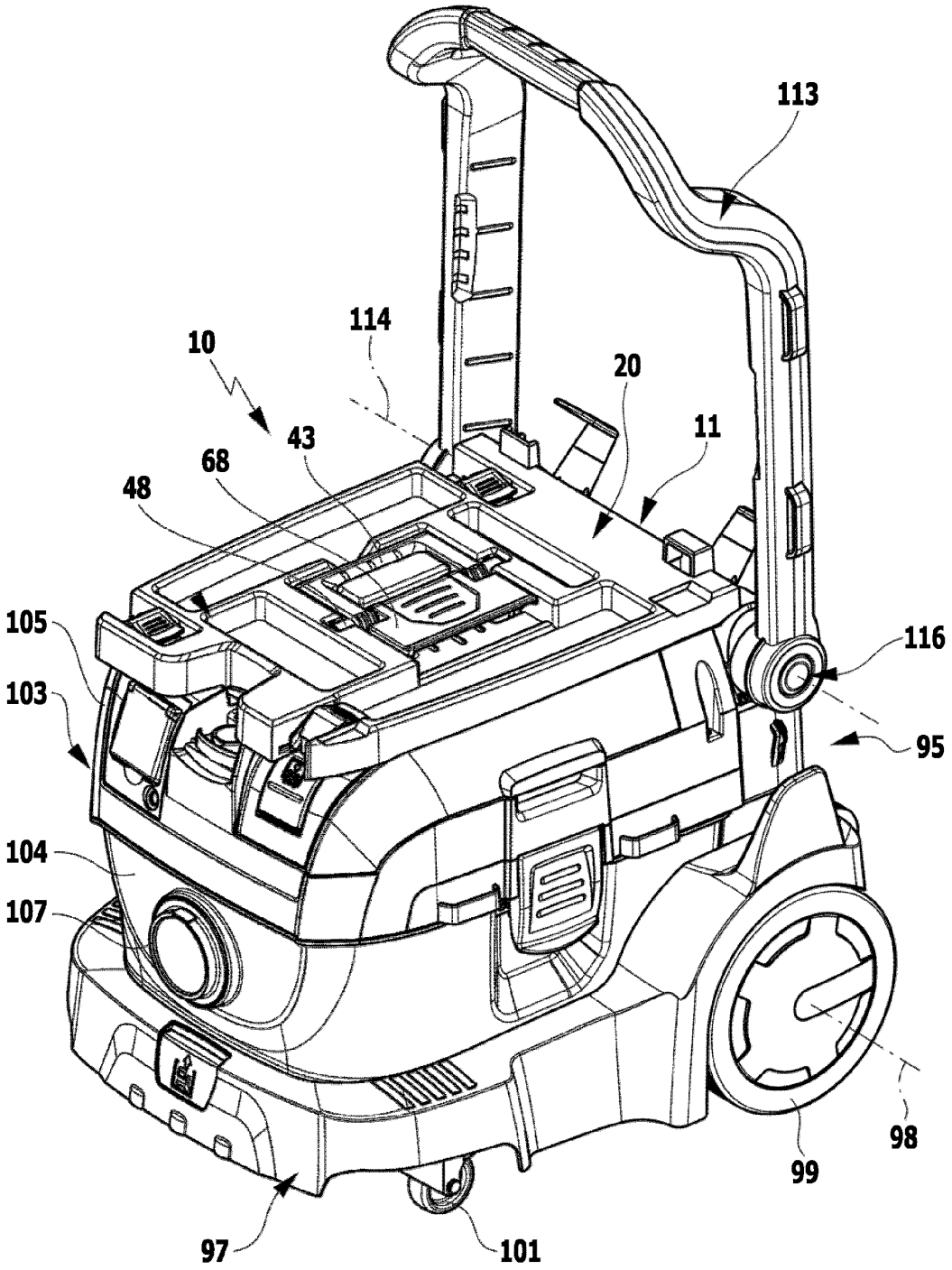


图 8

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