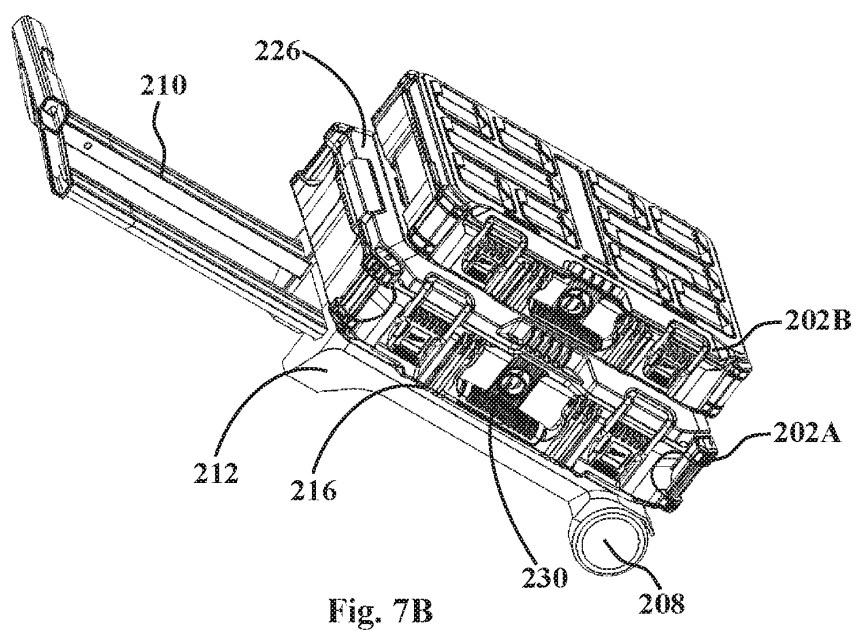
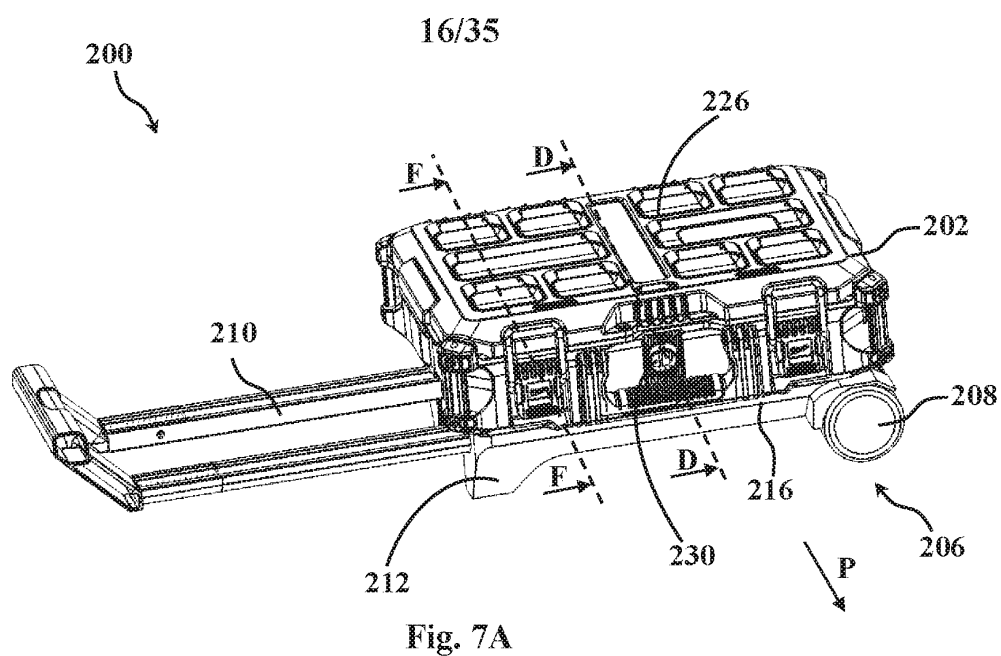
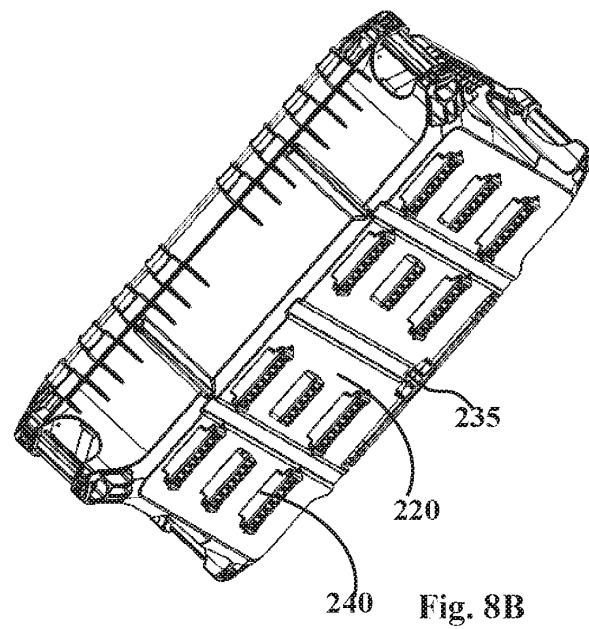
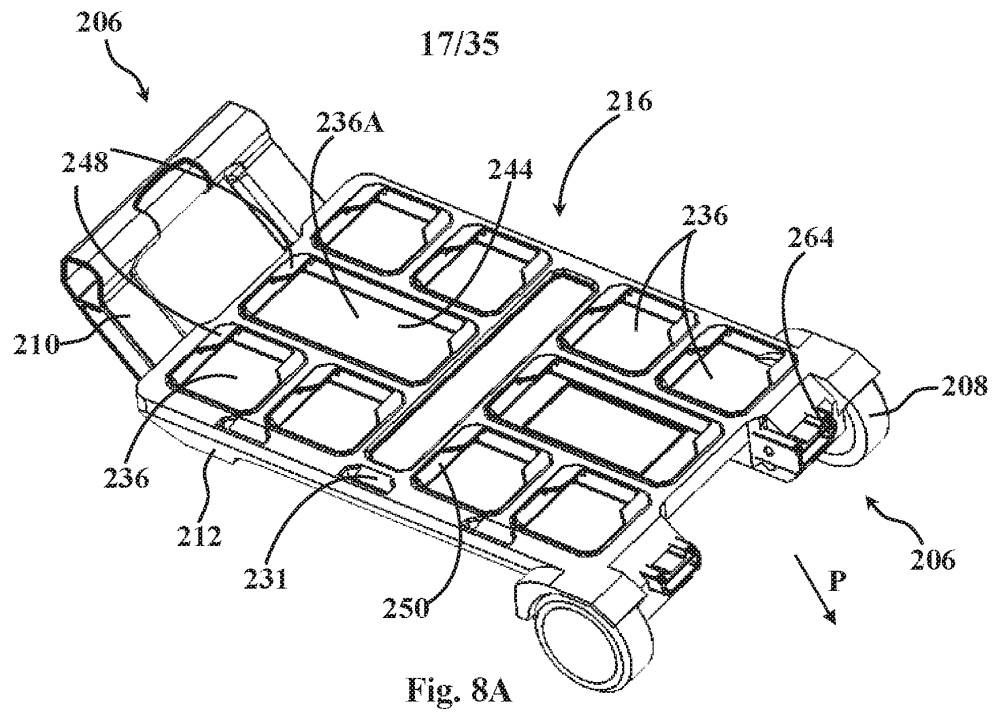






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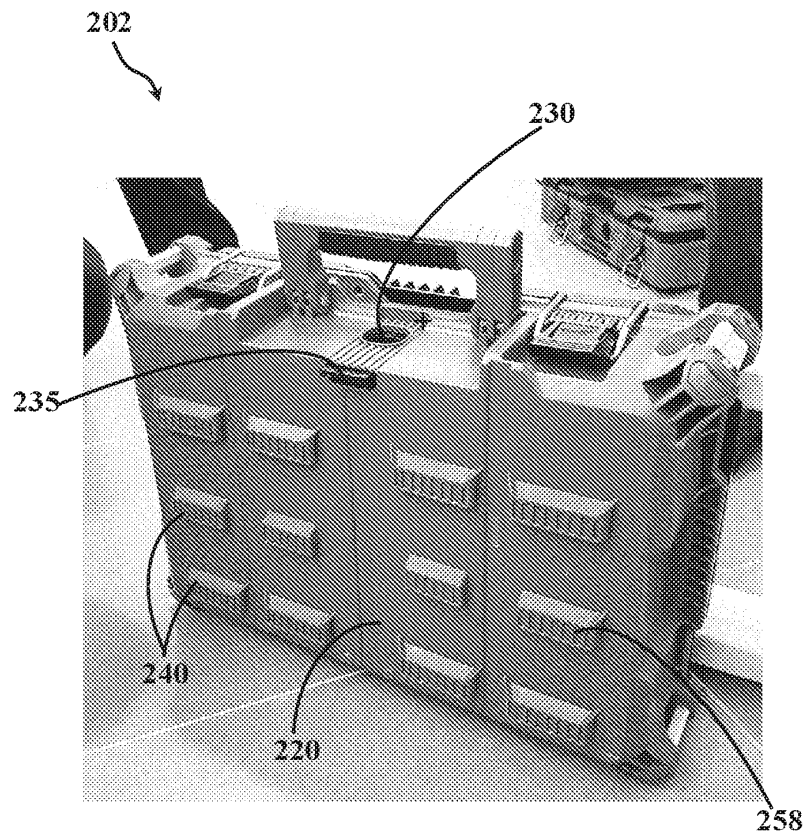
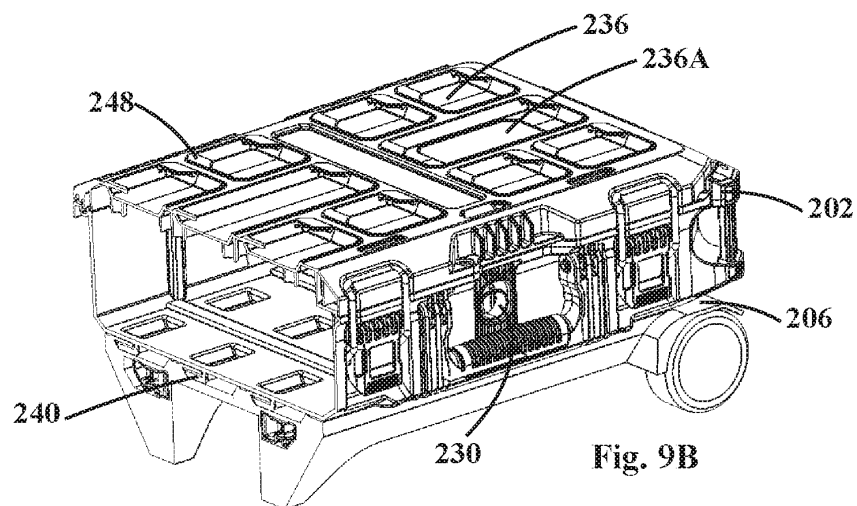
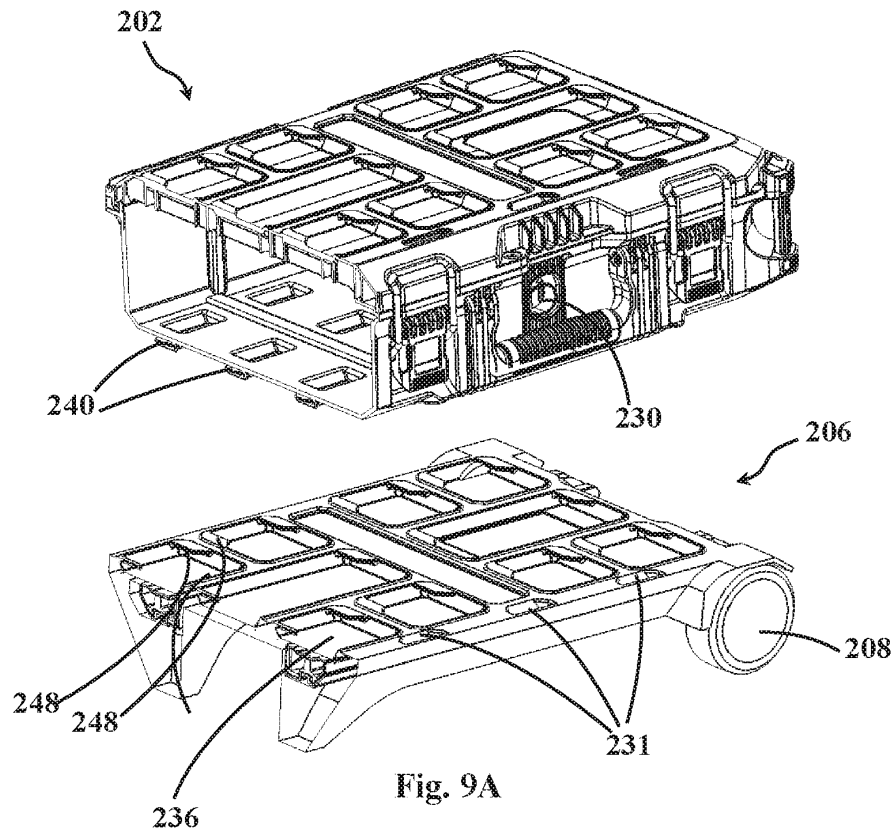


Fig. 8C

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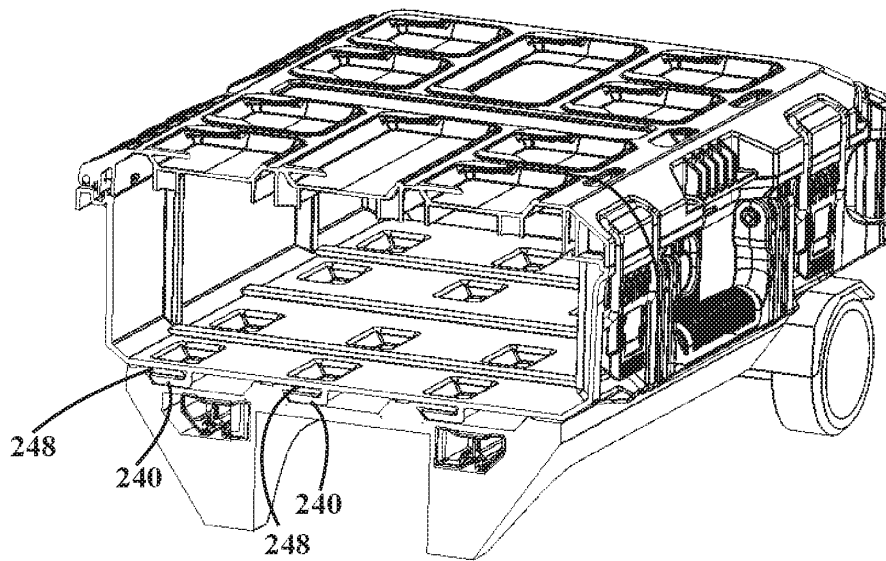


Fig. 9C

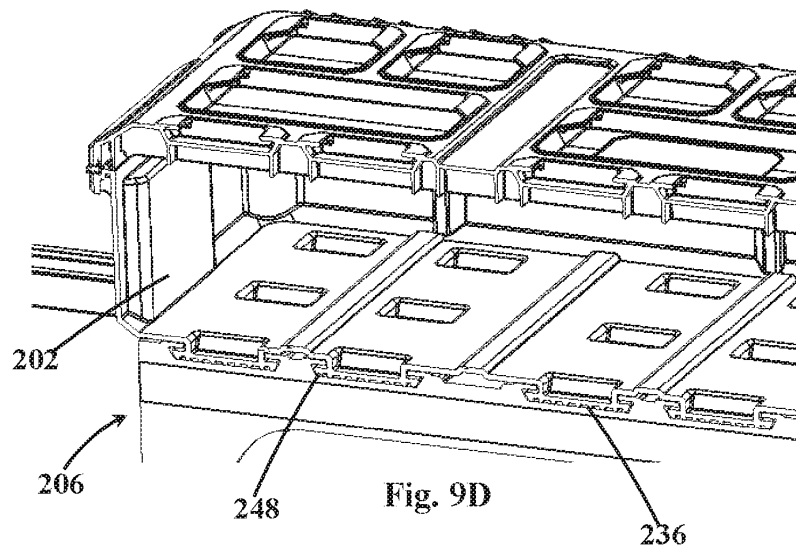


Fig. 9D

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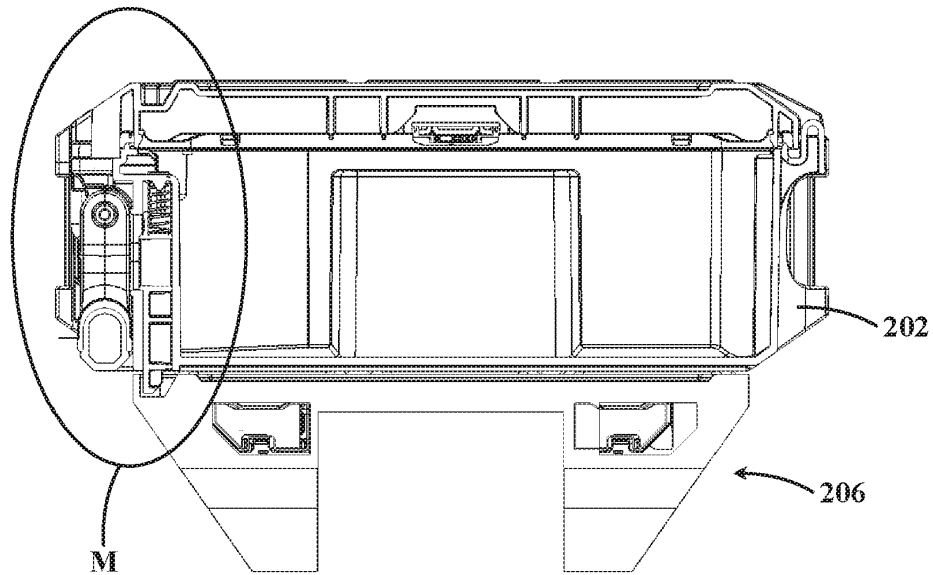


Fig. 10A

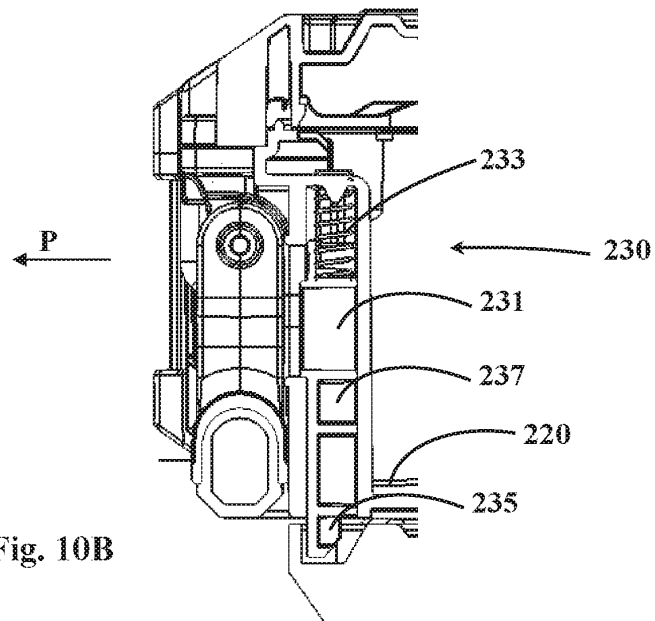


Fig. 10B

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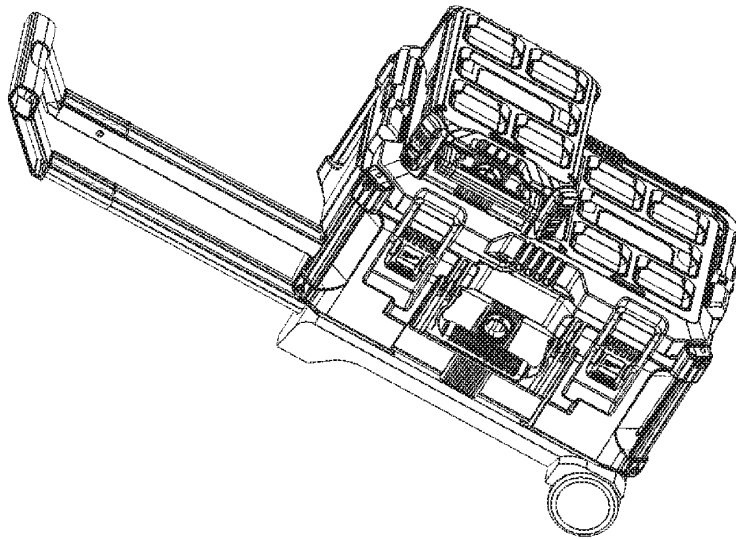


Fig. 11A

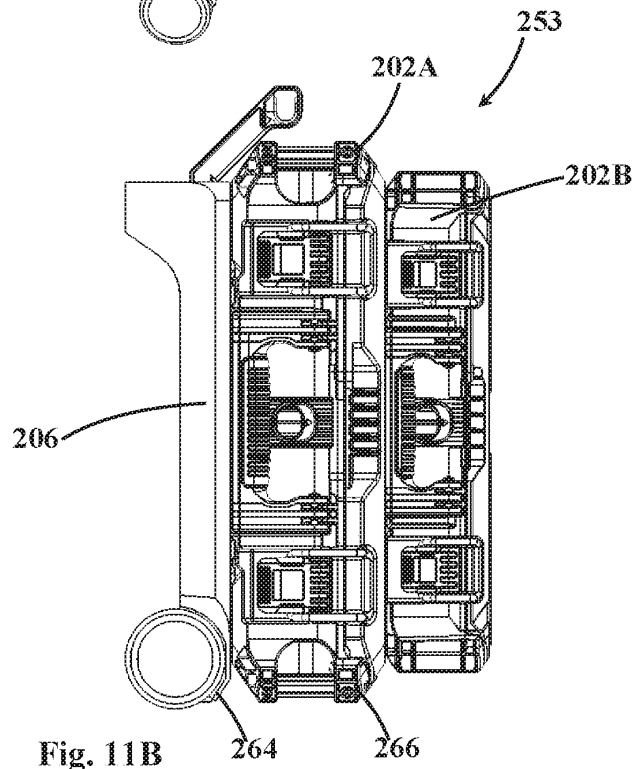
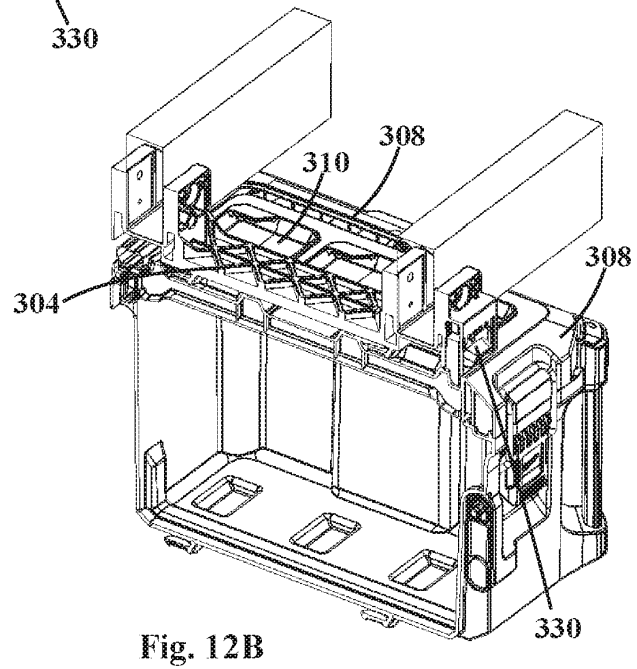
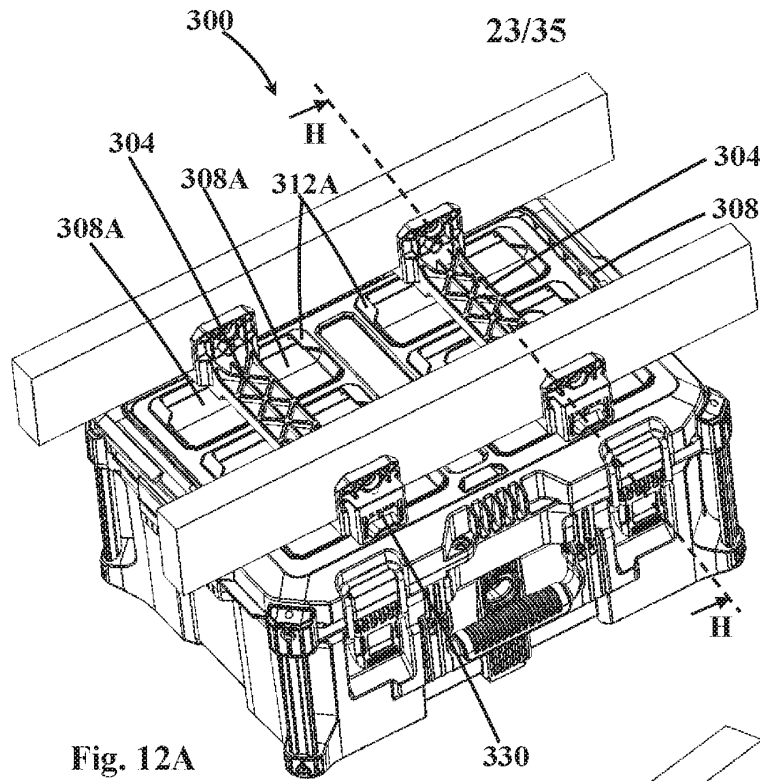


Fig. 11B



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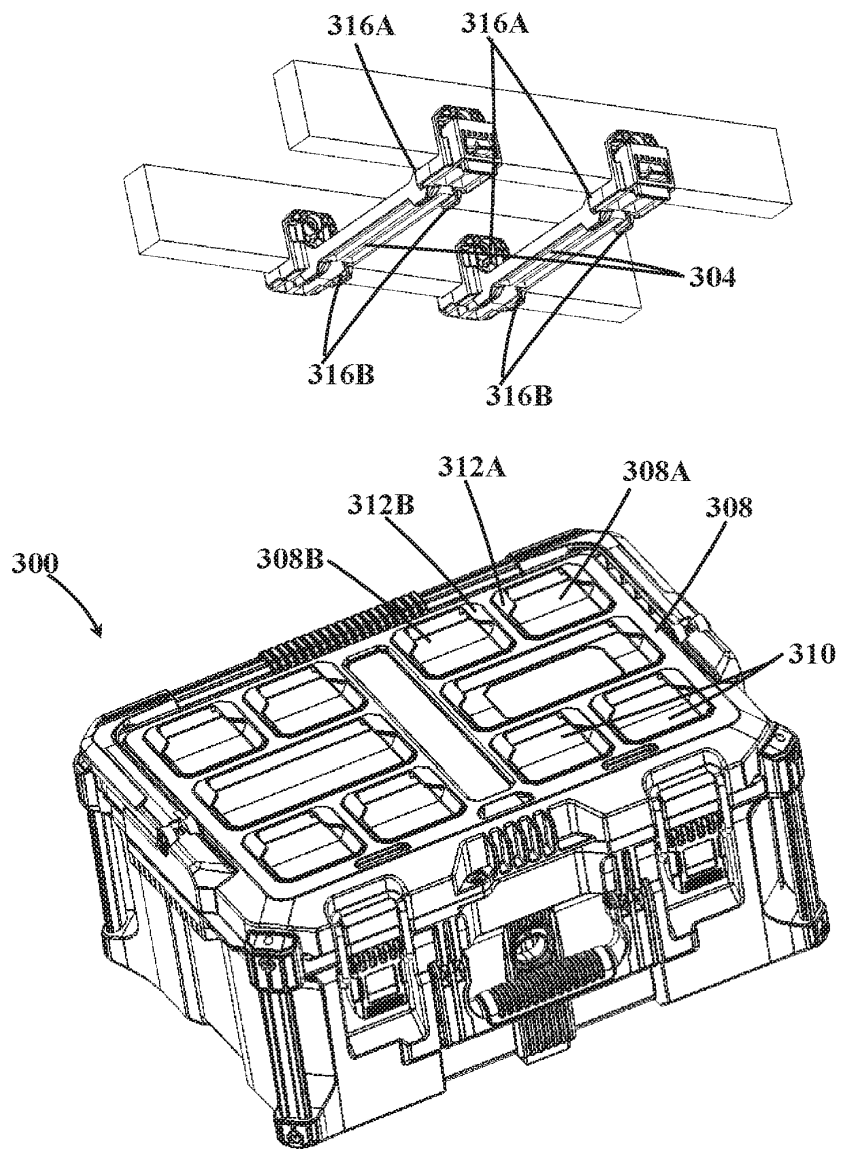


Fig. 12C

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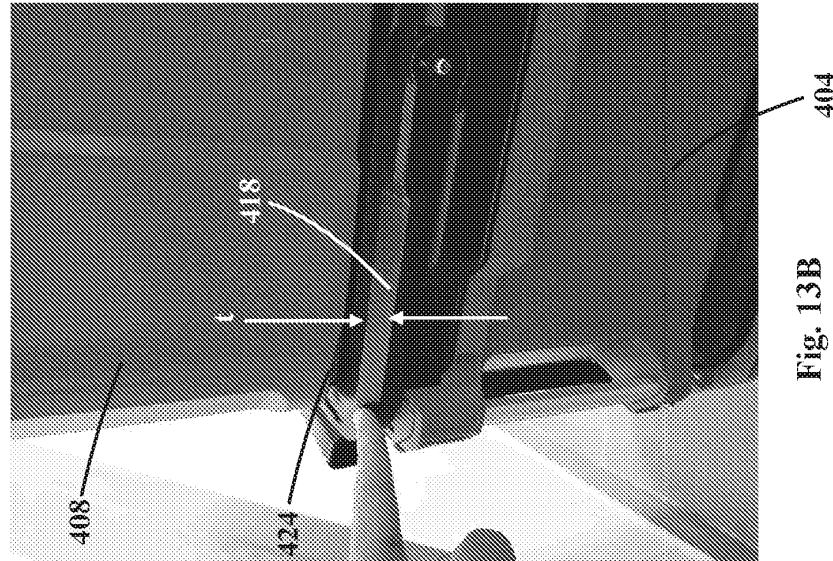


Fig. 13B

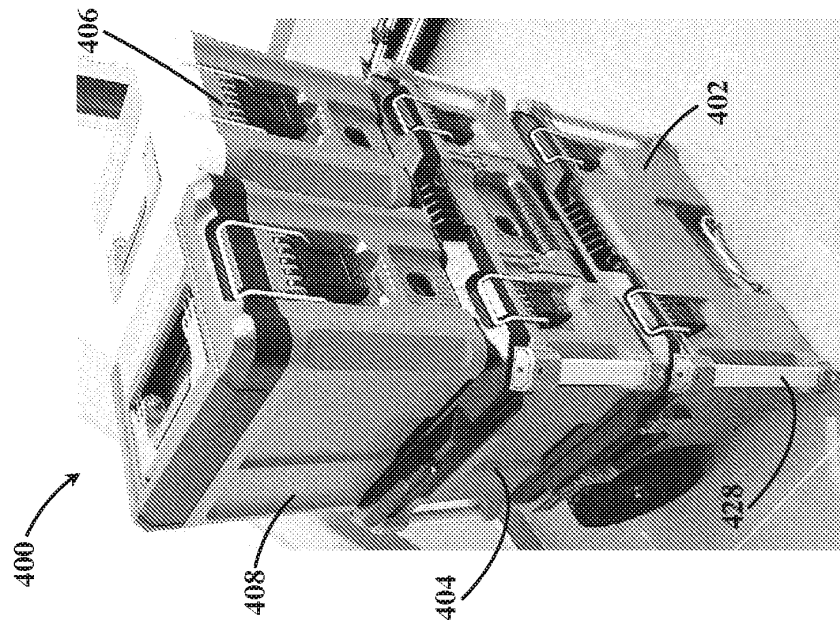


Fig. 13A

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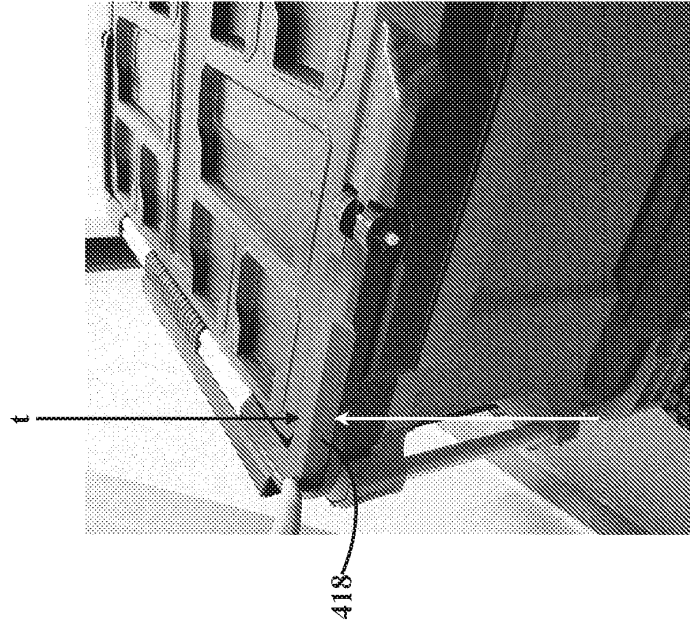


Fig. 13D

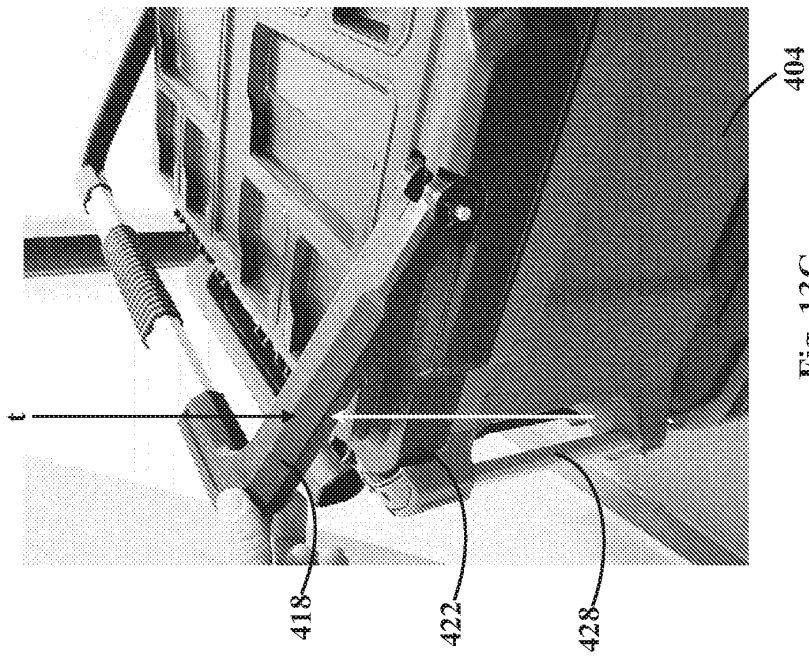


Fig. 13C

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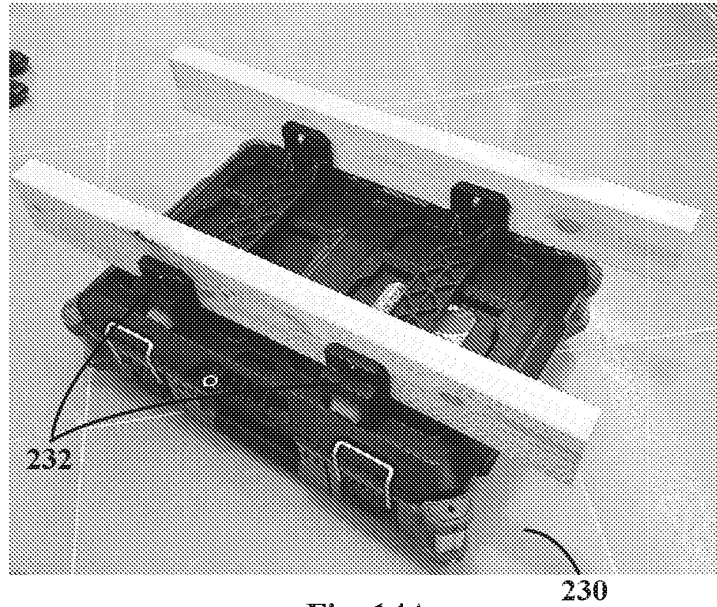


Fig. 14A

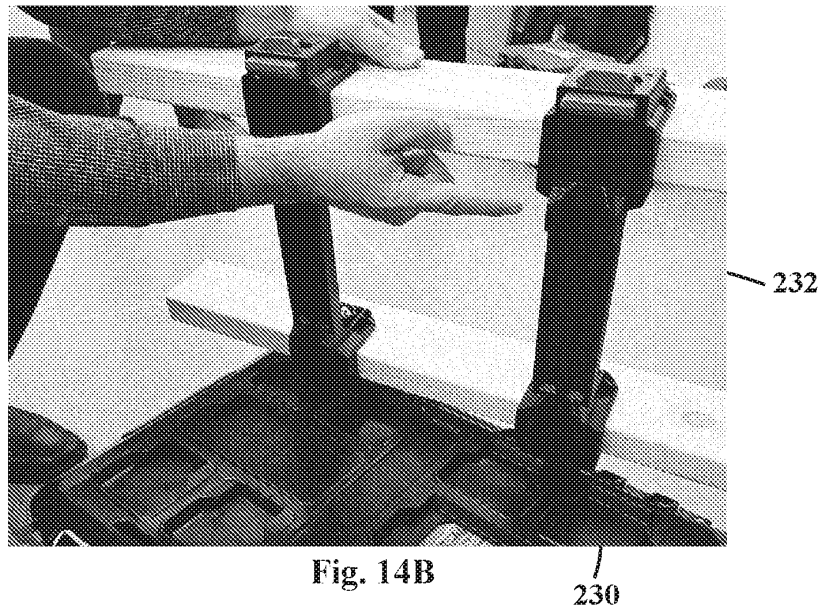
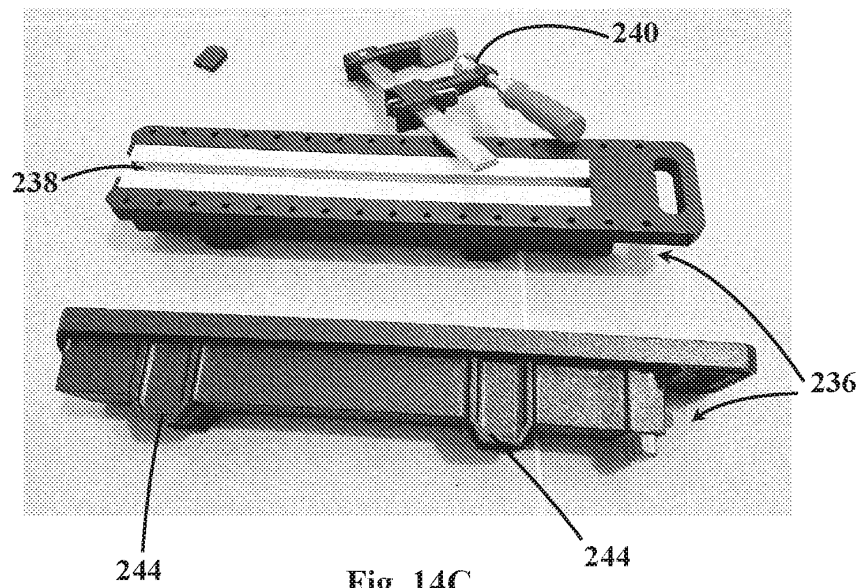


Fig. 14B

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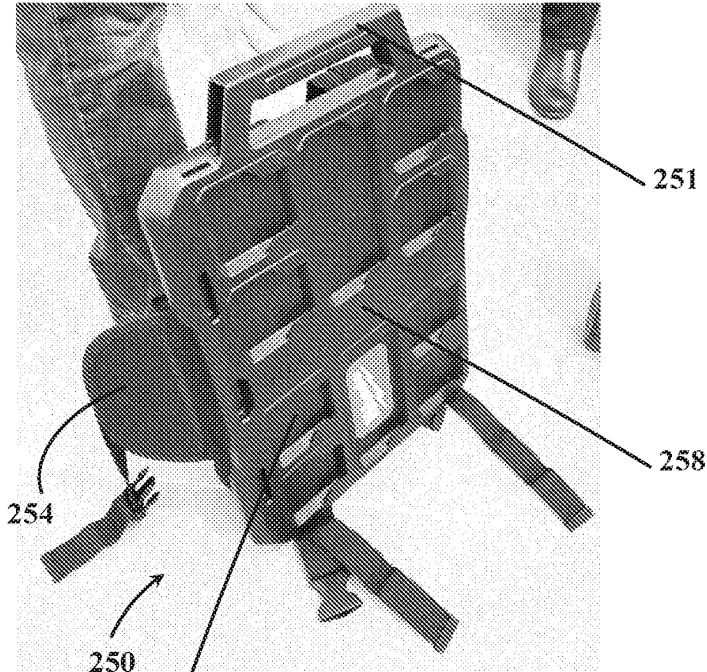


Fig. 15A

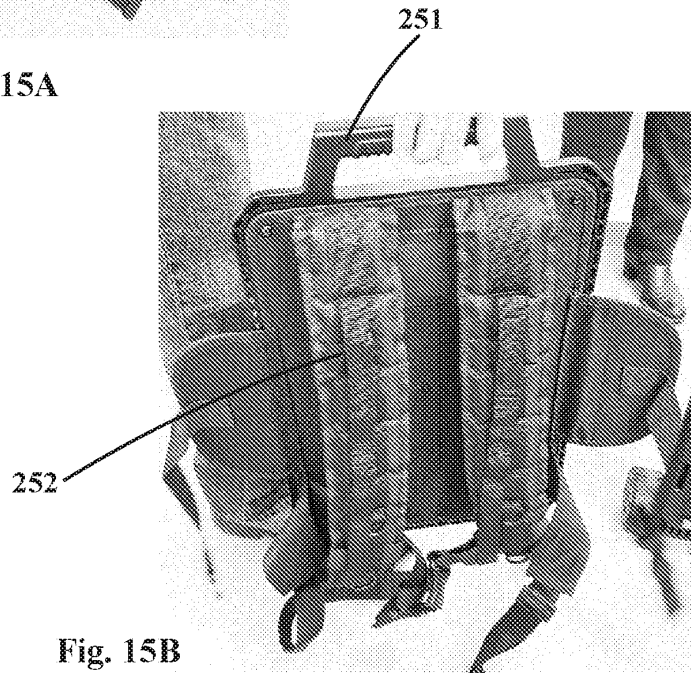


Fig. 15B

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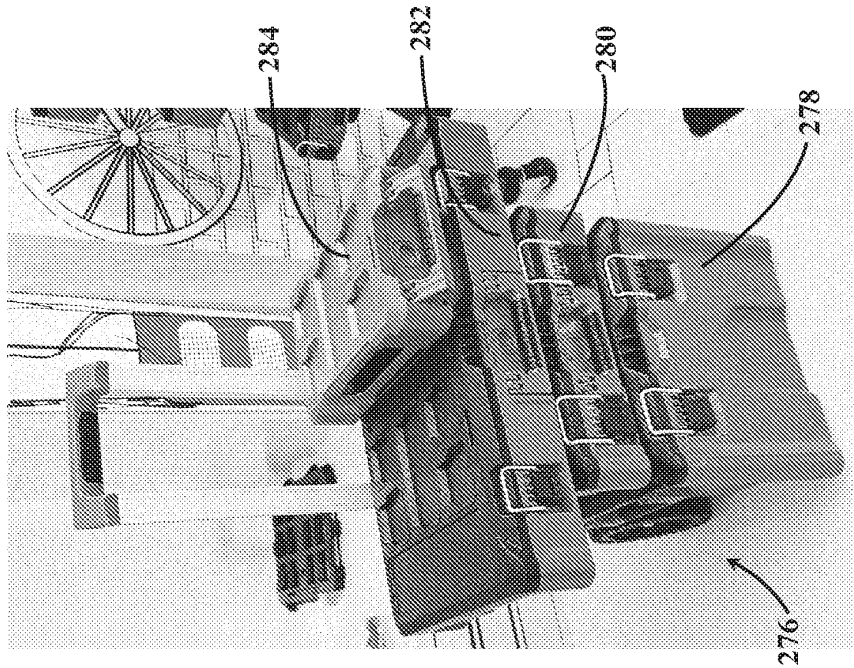


Fig. 16B

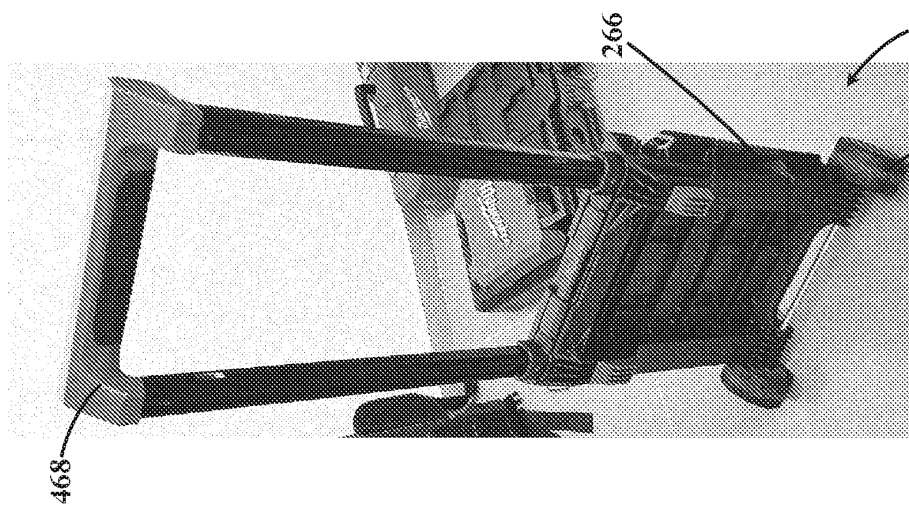


Fig. 16A

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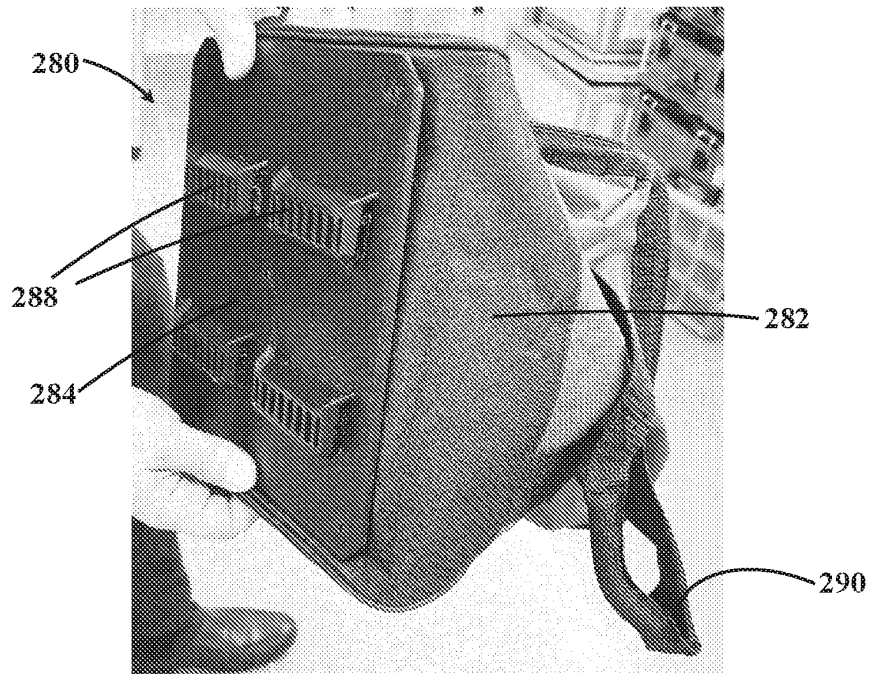


Fig. 17

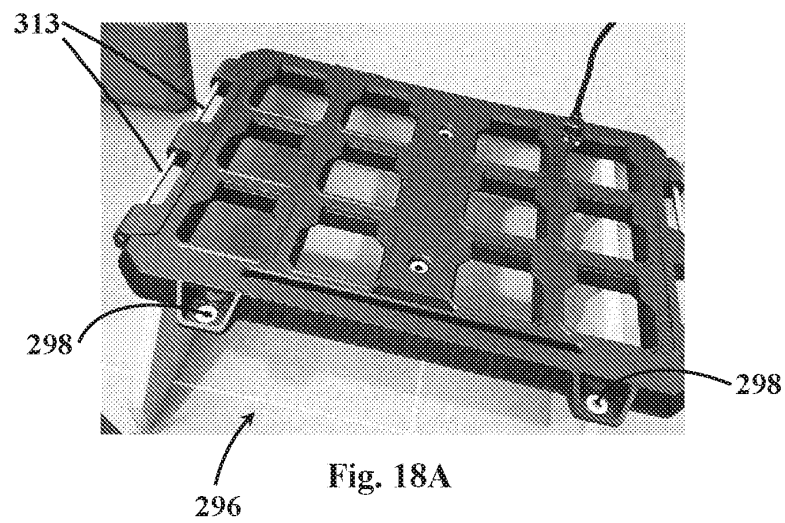


Fig. 18A

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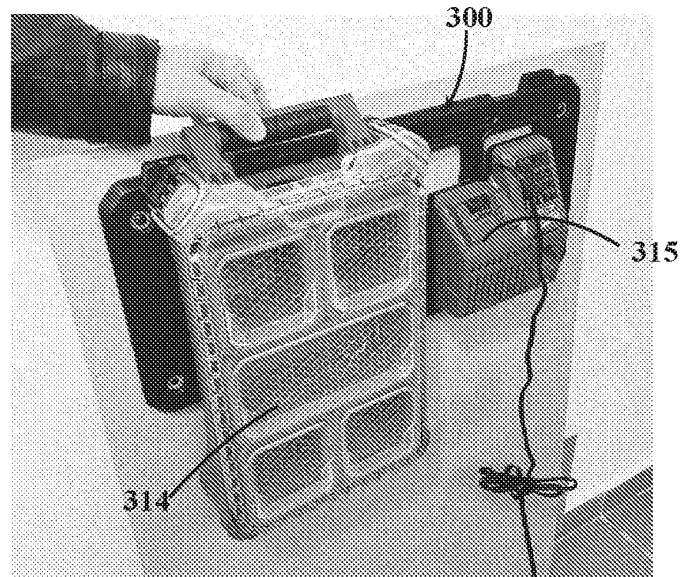


Fig. 18B

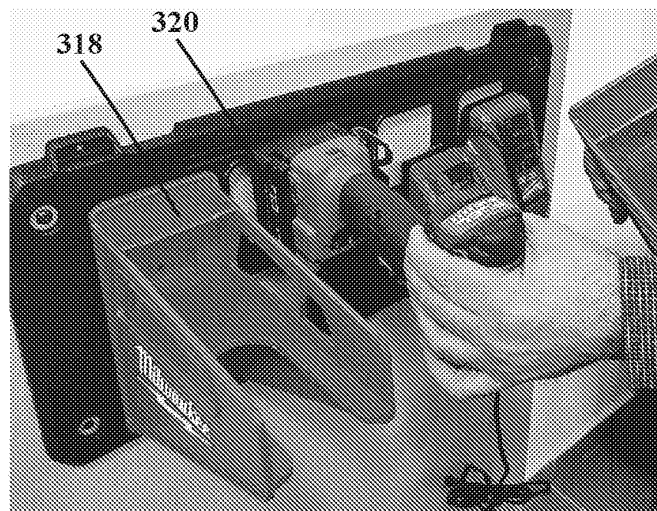


Fig. 18C

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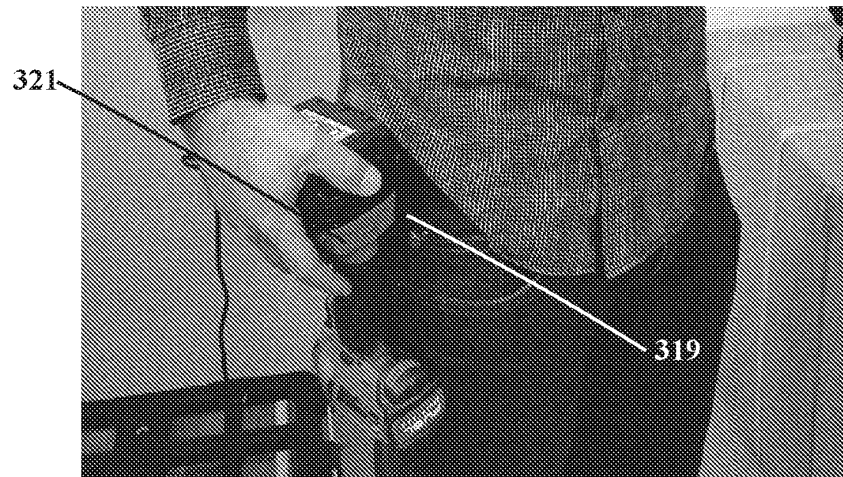


Fig. 19

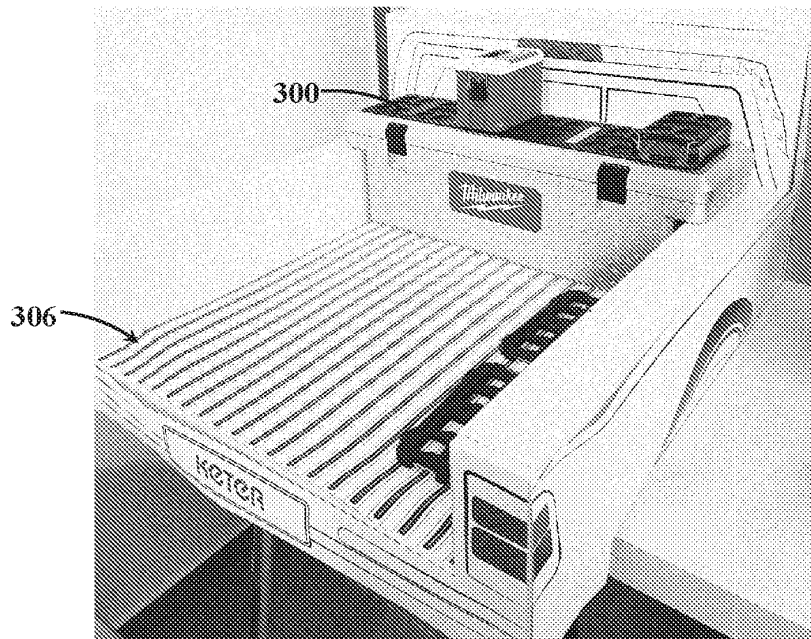


Fig. 20

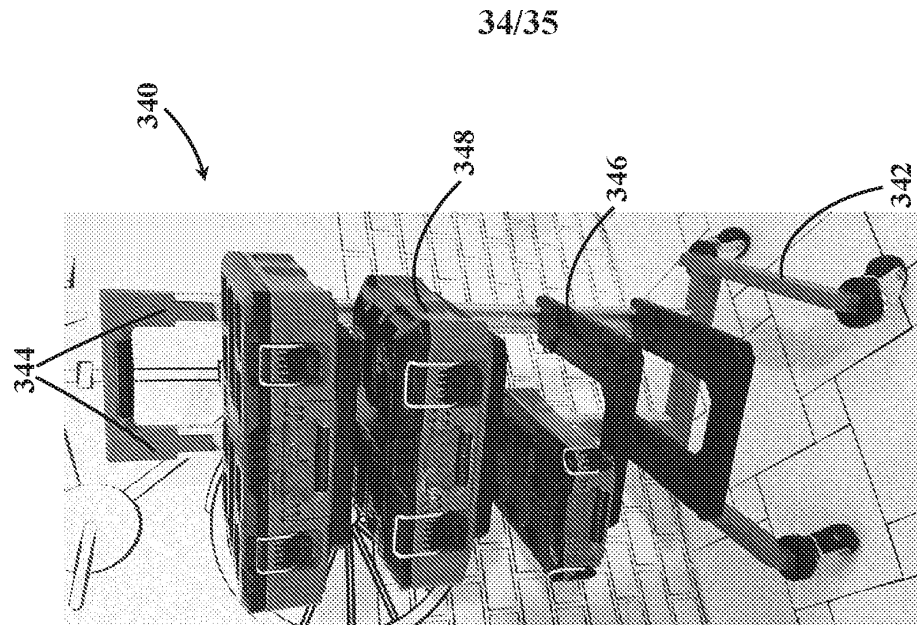


Fig. 22

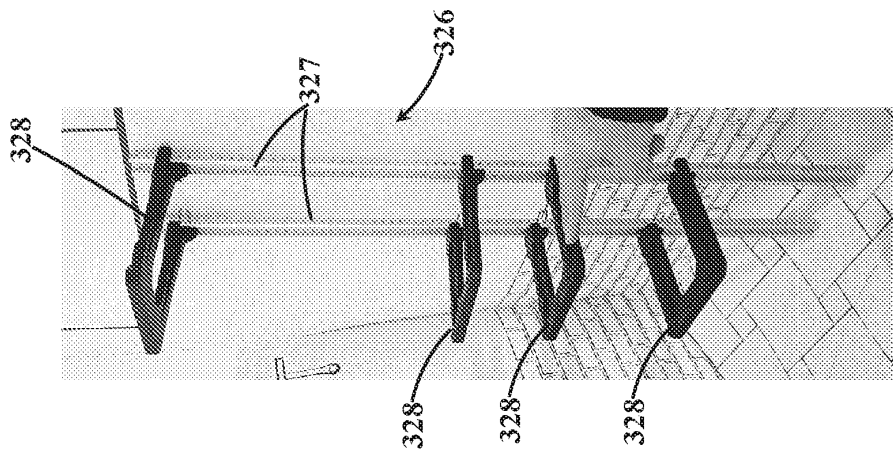


Fig. 21

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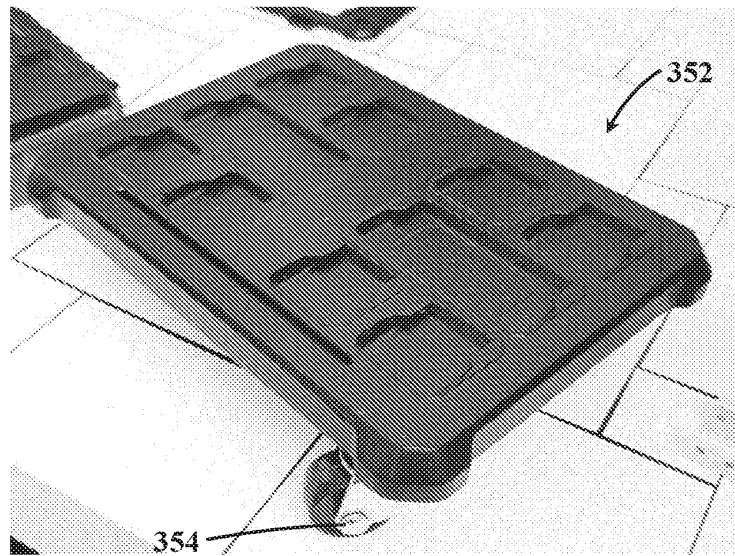


Fig. 23

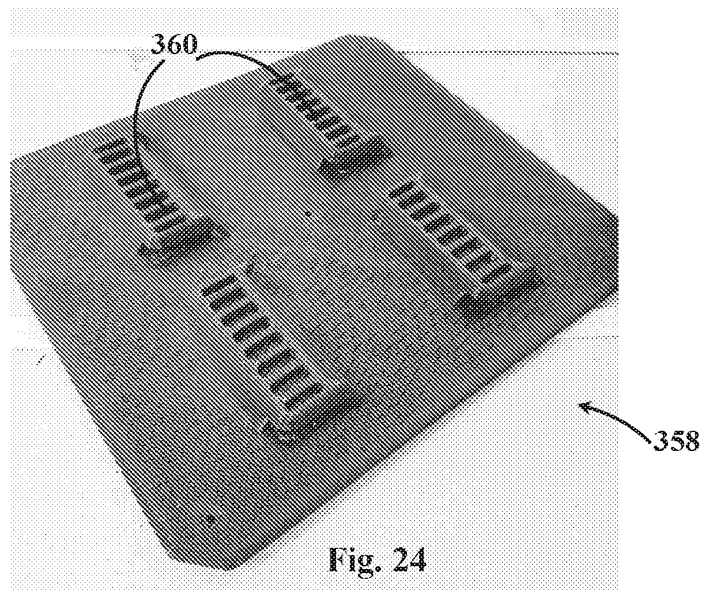


Fig. 24

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL2017/050481

A. CLASSIFICATION OF SUBJECT MATTER IPC (2017.01) B25H 3/02, B65D 21/02		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC (2017.01) B25H 3/02, B65D 21/02		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Databases consulted: Esp@cenet, Google Patents, PatBase, Orbit		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011155613 A KOENIG 30 Jun 2011 (2011/06/30) whole	1,2,4,5
Y	whole	3,8-66
X	US 20110139665 A MADSEN 16 Jun 2011 (2011/06/16) whole	1
Y	CN 2608238 A BAO JIANGANG 31 Mar 2004 (2004/03/31) whole	3,8-66
Y	US 2004195793 A SULLIVAN 07 Oct 2004 (2004/10/07) whole	50-66
☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 20 Aug 2017		Date of mailing of the international search report 20 Aug 2017
Name and mailing address of the ISA: Israel Patent Office Technology Park, Bldg.5, Malcha, Jerusalem, 9695101, Israel Facsimile No. 972-2-5651616		Authorized officer GUTKIN Solomon Telephone No. 972-2-5651763

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL2017/050481

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20130127129 A BENSMAN 23 May 2013 (2013/05/23) whole	1-66
A	US 2002000440 A SAGOL 01 Jan 2002 (2002/01/01) whole	1-66
A	US 5240264 B WILLIAMS 31 Aug 1993 (1993/08/31) whole	50-66

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/IL2017/050481

Patent document cited search report			Publication date	Patent family member(s)	Publication Date
US	2011155613	A	30 Jun 2011	NONE	
US	20110139665	A	16 Jun 2011	NONE	
CN	2608238	A	31 Mar 2004	NONE	
US	2004195793	A	07 Oct 2004	NONE	
US	20130127129	A	23 May 2013	NONE	
US	2002000440	A	01 Jan 2002	NONE	
US	5240264	B	31 Aug 1993	NONE	

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 066042-5626-WO01	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2018/033161	International filing date (<i>day/month/year</i>) 17 May 2018 (17.05.2018)	(Earliest) Priority Date (<i>day/month/year</i>) 17 May 2017 (17.05.2017)
Applicant MILWAUKEE ELECTRIC TOOL CORPORATION et al.		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of :

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 21
- ☒ as suggested by the applicant.
- ☐ as selected by this Authority, because the applicant failed to suggest a figure.
- ☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/033161**A. CLASSIFICATION OF SUBJECT MATTER****B25H 3/02(2006.01)i, A45F 3/04(2006.01)i, A45C 13/38(2006.01)i, B25H 3/06(2006.01)i, A45F 3/00(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B25H 3/02; B62C 1/00; B62B 1/00; B65D 21/00; A45F 3/04; B62B 3/00; A45F 3/14; A45C 13/38; B25H 3/06; A45F 3/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & keywords: container, stack, lid, projection, recess, backpack, cart, channel, and wing

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009-0071990 A1 (JARDINE et al.) 19 March 2009 See paragraphs [0034]-[0036], [0047], [0055] figures 1-3, 6.	1-3
Y		4-7
Y	US 2011-0155613 A1 (KOENIG et al.) 30 June 2011 See paragraphs [0050], [0053], [0056], [0095], [0103]-[0106] and figures 2-5, 7, 10, 11.	4-20
Y	US 2004-0195793 A1 (SULLIVAN et al.) 07 October 2004 See paragraphs [0055], [0056] and figures 9, 11.	8-20
A	US 2003-0205877 A1 (VERNA et al.) 06 November 2003 See paragraph [0044] and figures 2, 9.	1-20
A	US 2007-0194543 A1 (DUVIGNEAU, NIKOLAI) 23 August 2007 See paragraphs [0047]-[0061] and figures 1-3.	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

06 August 2018 (06.08.2018)

Date of mailing of the international search report

06 August 2018 (06.08.2018)

Name and mailing address of the ISA/KR

International Application Division
Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon, 35208, Republic of Korea

Facsimile No. +82-42-481-8578

Authorized officer

LEE, Jong Kyung

Telephone No. +82-42-481-3360



Form PCT/ISA/210 (second sheet) (January 2015)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2018/033161

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009-0071990 A1	19/03/2009	None	
US 2011-0155613 A1	30/06/2011	AT 546373 T CA 2735679 A1 CA 2735679 C CN 102137795 A CN 102137795 B EP 2315701 A1 EP 2315701 B1 US 8875888 B2 WO 2011-000385 A1	15/03/2012 06/01/2011 23/08/2016 27/07/2011 06/03/2013 04/05/2011 22/02/2012 04/11/2014 06/01/2011
US 2004-0195793 A1	07/10/2004	US 2006-0119060 A1 US 6983946 B2	08/06/2006 10/01/2006
US 2003-0205877 A1	06/11/2003	CA 2425195 A1 CA 2427309 A1 MX PA03003872 A MX PA03003873 A US 2003-0205495 A1 US 6953116 B2	03/11/2003 03/11/2003 21/04/2004 12/08/2004 06/11/2003 11/10/2005
US 2007-0194543 A1	23/08/2007	CA 2547142 A1 CN 101209150 A CN 102150986 A EP 1724069 A2 EP 1724069 A3 GB 2445216 A US 2007-0012694 A1 US 7503569 B2	16/11/2006 02/07/2008 17/08/2011 22/11/2006 25/03/2009 02/07/2008 18/01/2007 17/03/2009

Form PCT/ISA/210 (patent family annex) (January 2015)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

CHESLOCK, Alan, C.

Michael Best & Friedrich LLP 100 East Wisconsin Avenue,
Suite 3300 Milwaukee, WI 53202-4108 USA

PCT

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **06 August 2018 (06.08.2018)**

Applicant's or agent's file reference
066042-5626-WO01

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/US2018/033161

International filing date (day/month/year)
17 May 2018 (17.05.2018)

Priority date (day/month/year)
17 May 2017 (17.05.2017)

International Patent Classification (IPC) or both national classification and IPC

B25H 3/02(2006.01)i, A45F 3/04(2006.01)i, A45C 13/38(2006.01)i, B25H 3/06(2006.01)i, A45F 3/00(2006.01)i

Applicant

MILWAUKEE ELECTRIC TOOL CORPORATION et al.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR
International Application Division
Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon,
35208, Republic of Korea
Facsimile No. +82-42-481-8578



Date of completion of this opinion

06 August 2018 (06.08.2018)

Authorized officer

LEE, Jong Kyung

Telephone No. +82-42-481-3360



Form PCT/ISA/237 (cover sheet) (January 2015)

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US2018/033161

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:

- a. ☐ forming part of the international application as filed:
- ☐ in the form of an Annex C/ST.25 text file.
- ☐ on paper or in the form of an image file.
- b. ☐ furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
- c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
- ☐ in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).
- ☐ on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2018/033161

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	3-20	YES
	Claims	1,2	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 2009-0071990 A1 (JARDINE et al.) 19 March 2009

D2: US 2011-0155613 A1 (KOENIG et al.) 30 June 2011

D3: US 2004-0195793 A1 (SULLIVAN et al.) 07 October 2004

1. Novelty and Inventive Step

1.1 Independent Claim 1

D1, which is considered to represent the most relevant state of the art, discloses a quick release backpack system (100) comprising: shoulder straps (132, 134); a mounting panel (110) coupled to the shoulder straps (132, 134) and configured to extend along a user's back when the shoulder straps (132, 134) extend over the user's shoulder; and a container (104) removably coupled to the mounting panel (110), wherein the container (104) slides in a first direction relative to the mounting panel (110) to attach the container (104) to the mounting panel (110) and the container (104) slides in a second direction, opposite the first direction, relative to the mounting panel (110) to remove the container (104) from the mounting panel (110) (see paragraphs [0034], [0035], [0055] and figures 1, 2, 6). As all of the features of claim 1 are disclosed in D1, claim 1 is anticipated by D1. Therefore, claim 1 lacks novelty under PCT Article 33(2).

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2018/033161

Supplemental Box

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Continuation of : Box No. V

1.2 Dependent Claims 2-7

1.2.1 Concerning Claim 2

The additional feature of claim 2 is identical to the feature of D1 in that the shoulder straps (132, 134) are flexible and the mounting panel (110) is rigid (see paragraph [0036] and figures 1, 2). Accordingly, claim 2 is anticipated by D1. Therefore, claim 2 lacks novelty under PCT Article 33(2).

1.2.2 Concerning Claim 3

The additional feature of claim 3 is characterized in that a base is rectangular and the base includes a length and a width, the length being longer than the width (feature 1), wherein first and second directions are parallel to the width (feature 2). D1 discloses that the mounting panel (110) may have a rectangular shape with a length and a width, the length being longer than the width, which corresponds to feature 1 (see paragraph [0047] and figure 3). In addition, feature 2 would be easily conceived from the disclosure of D1 considering that the first and second directions are parallel to the length (see figures 3, 6). Accordingly, claim 3 would have been obvious over D1. Therefore, claim 3 does not involve an inventive step under PCT Article 33(3).

1.2.3 Concerning Claim 4

The additional feature of claim 4 is characterized in that a tool storage container includes a lid and a body, wherein the lid is pivotally coupled to the body. This feature is not disclosed in D1. However, D2 discloses that an upper container includes a lid (8) and a body (6), wherein the lid (8) is pivotally coupled to the body (6) (see paragraphs [0050], [0053] and figures 2, 5). D1 and D2 are concerned with mutually related technical fields and there is no need for fundamental changes in the key features or for a new technical idea in combining the subject matters of D1 and D2. Accordingly, claim 4 would have been obvious over D1 in view of D2. Therefore, claim 4 does not involve an inventive step under PCT Article 33(3).

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Form PCT/ISA/237 (Supplemental Box) (January 2015)

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1.2.4 Concerning Claim 5

The additional feature of claim 5 is identical to the feature of D2 in that the lid (8) and the body (6) are rigid (see figures 2, 5). Accordingly, claim 5 would have been obvious over D1 in view of D2. Therefore, claim 5 does not involve an inventive step under PCT Article 33(3).

1.2.5 Concerning Claim 6

The additional feature of claim 6 is characterized in that the body includes a bottom surface opposite the lid, wherein the bottom surface includes a projection, wherein a base includes a recess, and wherein the projection is received in the recess as a tool storage container slides in a first direction relative to the base to attach the tool storage container to the base. This feature would be easily conceived from the disclosure of D2 considering that the body (6) includes a bottom surface (56) opposite the lid (8), wherein the bottom surface (56) includes an engaging projection (55), wherein a lower container (1) includes an engaging recess (54, 54b), and wherein the engaging projection (55) is received in the engaging recess (54, 54b) as the upper container (1) slides in a first direction relative to the lower container (1) to attach the upper container (1) to the lower container (1) (see paragraphs [0056], [0095] and figures 3-5, 10, 11). Accordingly, claim 6 would have been obvious over D1 in view of D2. Therefore, claim 6 does not involve an inventive step under PCT Article 33(3).

1.2.6 Concerning Claim 7

The additional feature of claim 7 is characterized in further comprising a channel between the projection and the base, the channel including an open end and a closed end, wherein the recess of the base includes wings that are received in the channel when the tool storage container is attached to the base. This feature would be easily conceived from the disclosure of D2 considering that the projection (55) includes a locking foot (57b) having a rear-engaging section (62), wherein the rear-engaging section (62) comes into locking engagement with a rear-engaging projection (58) of the engaging recess (54b) when the upper container (1) is attached to the lower container (1) (see paragraphs [0103]-[0106] and figures 3-5, 10, 11). Accordingly, claim 7 would have been obvious over D1 in view of D2. Therefore, claim 7 does not involve an inventive step under PCT Article 33(3).

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1.3 Independent Claim 8

D3, which is considered to be the closest prior art to the subject matter of claim 8, discloses an apparatus (80) having a wheeled base (60), comprising: a pair of removable wheels (72) configured to support the wheeled base (60) on a surface such that the wheeled base (60) can roll along the surface; a frame (61) including a top side and a bottom side opposite the top side; and a storage container (21) removably coupled to the top side of the frame (61) (see paragraphs [0055], [0056] and figures 9, 11). Claim 8 differs from D3 in that: a plurality of wheels of claim 8 are adjacent a bottom side (difference 1); and a tool storage container of claim 8 slides in a first direction relative to a base and generally parallel to a top side to attach the tool storage container to the base, wherein the tool storage container slides in a second direction, opposite the first direction, relative to the base and generally parallel to the top side to remove the tool storage container from the base (difference 2). Difference 1 would be easily conceived from the disclosure of D3 considering that the pair of removable wheels (72) are between the top and bottom sides (see figure 9). In addition, difference 2 would be easily conceived from the disclosure of D2 considering that an upper container (1) slides a first direction relative to a lower container (1) and parallel to a top side to attach the upper container (1) to the lower container (1), wherein the upper container (1) slides in a second direction, opposite the first direction, relative to the lower container (1) and parallel to the top side to remove the upper container (1) from the lower container (1) (see paragraph [0050] and figures 10, 11). D3 and D2 are concerned with mutually related technical fields and there is no need for fundamental changes in the key features or for a new technical idea in combining the subject matters of D3 and D2. Accordingly, claim 8 would have been obvious over D3 in view of D2. Therefore, claim 8 does not involve an inventive step under PCT Article 33(3).

1.4 Dependent Claims 9-14

1.4.1 Concerning Claim 9

The additional feature of claim 9 is characterized in that the base is rectangular and the base includes a length and a width, the length being longer than the width, wherein the first and second directions are parallel to the width. This feature would be easily conceived from the disclosure of D2 considering that the lower container (1) is rectangular and includes a length

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and a width, the length being longer than the width, wherein the first and second directions are parallel to the width (see figures 7, 10, 11). Accordingly, claim 9 would have been obvious over D3 in view of D2. Therefore, claim 9 does not involve an inventive step under PCT Article 33(3).

1.4.2 Concerning Claim 10

The additional feature of claim 10 is identical to the feature of D2 in that the upper container includes a lid (8) and a body (6), wherein the lid (8) is pivotally coupled to the body (6) (see paragraphs [0050], [0053] and figure 2). Accordingly, claim 10 would have been obvious over D3 in view of D2. Therefore, claim 10 does not involve an inventive step under PCT Article 33(3).

1.4.3 Concerning Claim 11

The additional feature of claim 11 is identical to the feature of D2 in that the lid (8) and the body (6) are rigid (see figures 2, 5). Accordingly, claim 11 would have been obvious over D3 in view of D2. Therefore, claim 11 does not involve an inventive step under PCT Article 33(3).

1.4.4 Concerning Claim 12

The additional feature of claim 12 is characterized in that the tool storage container includes a lid and a body, wherein the body includes a bottom surface opposite the lid, wherein the bottom surface includes a projection, wherein the base includes a recess, and wherein the projection is received in the recess as the tool storage container slides in the first direction relative to the base to attach the tool storage container to the base. This feature would be easily conceived from the disclosure of D2 considering that the upper container (1) includes a lid (8) and a body (6), wherein the body (6) includes a bottom surface (56) opposite the lid (8), wherein the bottom surface (56) includes an engaging projection (55), wherein a lower container (1) includes an engaging recess (54, 54b), and wherein the engaging projection (55) is received in the engaging recess (54, 54b) as the upper container (1) slides in the first direction relative to the lower container (1) to attach the upper container (1) to the lower container (1) (see paragraphs [0050], [0056], [0095] and figures 3-5, 10, 11). Accordingly,

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claim 12 would have been obvious over D3 in view of D2. Therefore, claim 12 does not involve an inventive step under PCT Article 33(3).

1.4.5 Concerning Claim 13

The additional feature of claim 13 is characterized in further comprising a channel between the projection and the base, the channel including an open end and a closed end, wherein the recess of the base includes wings that are received in the channel when the tool storage container is attached to the base. This feature would be easily conceived from the disclosure of D2 considering that the projection (55) includes a locking foot (57b) having a rear-engaging section (62), wherein the rear-engaging section (62) comes into locking engagement with a rear-engaging projection (58) of the engaging recess (54b) when the upper container (1) is attached to the lower container (1) (see paragraphs [0103]-[0106] and figures 3-5, 10, 11). Accordingly, claim 13 would have been obvious over D3 in view of D2. Therefore, claim 13 does not involve an inventive step under PCT Article 33(3).

1.4.6 Concerning Claim 14

The additional feature of claim 14 is characterized in that the tool storage container is a first tool storage container, the tool cart further comprising a second tool storage container, the second tool storage container removably coupled to the first tool storage container (feature 1), wherein the second tool storage container slides in the first direction relative to the first tool storage container to attach the second tool storage container to the first tool storage container, and wherein the second tool storage container slides in the second direction relative to the first tool storage container to remove the second tool storage container from the first tool storage container (feature 2). D3 discloses that the storage container (21) is a first tool storage container (21), the apparatus (80) further comprising a second storage container (21') removably coupled to the first storage container (21), which corresponds to feature 1 (see paragraph [0056] and figure 11). In addition, D2 discloses that the upper container (1) slides the first direction relative to the lower container (1) to attach the upper container (1) to the lower container (1), wherein the upper container (1) slides in the second direction relative to the lower container (1) to remove the upper container (1) from the lower container (1), which corresponds to feature 2 (see paragraph [0050] and figures 10, 11). Accordingly, claim 14 would have been obvious over D3 in view of D2. Therefore, claim 14 does not involve an

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inventive step under PCT Article 33(3).

1.5 Independent Claim 15

D3, which is considered to be the closest prior art to the subject matter of claim 15, discloses an apparatus (80) having a wheeled base (60), comprising: a frame (61) including a top side, a bottom side opposite the top side, a first end, and a second end opposite the first end; an adjustable pulling handle (75) extending from the first end; a pair of removable wheels (72); and a storage container (21) removably coupled to the top side of the frame (61) (see paragraphs [0055], [0056] and figures 9, 11). Claim 15 differs from D3 in that: first and second wheels are adjacent a second end (difference 1); and a tool storage container of claim 15 slides in a first direction relative to a base and generally parallel to a top side to attach the tool storage container to the base, wherein the tool storage container slides in a second direction, opposite the first direction, relative to the base and generally parallel to the top side to remove the tool storage container from the base (difference 2). Difference 1 would be easily conceived from the disclosure of D3 considering that the pair of removable wheels (72) are adjacent the first end (see figures 9, 11). In addition, difference 2 would be easily conceived from the disclosure of D2 considering that an upper container (1) slides a first direction relative to a lower container (1) and parallel to a top side to attach the upper container (1) to the lower container (1), wherein the upper container (1) slides in a second direction, opposite the first direction, relative to the lower container (1) and parallel to the top side to remove the upper container (1) from the lower container (1) (see paragraph [0050] and figures 10, 11). D3 and D2 are concerned with mutually related technical fields and there is no need for fundamental changes in the key features or for a new technical idea in combining the subject matters of D3 and D2. Accordingly, claim 15 would have been obvious over D3 in view of D2. Therefore, claim 15 does not involve an inventive step under PCT Article 33(3).

1.6 Dependent Claims 16-20

1.6.1 Concerning Claim 16

The additional feature of claim 16 is characterized in that the base is rectangular and the base includes a length and a width, the length being longer than the width, wherein the first and second directions are parallel to the width. This feature would be easily conceived from

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the disclosure of D2 considering that the lower container (1) is rectangular and includes a length and a width, the length being longer than the width, wherein the first and second directions are parallel to the width (see figures 7, 10, 11). Accordingly, claim 16 would have been obvious over D3 in view of D2. Therefore, claim 16 does not involve an inventive step under PCT Article 33(3).

1.6.2 Concerning Claim 17

The additional feature of claim 17 is identical to the feature of D2 in that the upper container includes a lid (8) and a body (6), wherein the lid (8) is pivotally coupled to the body (6) (see paragraphs [0050], [0053] and figure 2). Accordingly, claim 17 would have been obvious over D3 in view of D2. Therefore, claim 17 does not involve an inventive step under PCT Article 33(3).

1.6.3 Concerning Claim 18

The additional feature of claim 18 is characterized in that the tool storage container includes a lid and a body, wherein the body includes a bottom surface opposite the lid, wherein the bottom surface includes a projection, wherein the base includes a recess, and wherein the projection is received in the recess as the tool storage container slides in the first direction relative to the base to attach the tool storage container to the base. This feature would be easily conceived from the disclosure of D2 considering that the upper container (1) includes a lid (8) and a body (6), wherein the body (6) includes a bottom surface (56) opposite the lid (8), wherein the bottom surface (56) includes an engaging projection (55), wherein a lower container (1) includes an engaging recess (54, 54b), and wherein the engaging projection (55) is received in the engaging recess (54, 54b) as the upper container (1) slides in the first direction relative to the lower container (1) to attach the upper container (1) to the lower container (1) (see paragraphs [0050], [0056], [0095] and figures 3-5, 10, 11). Accordingly, claim 18 would have been obvious over D3 in view of D2. Therefore, claim 18 does not involve an inventive step under PCT Article 33(3).

1.6.4 Concerning Claim 19

The additional feature of claim 19 is characterized in further comprising a channel between

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the projection and the base, the channel including an open end and a closed end, wherein the recess of the base includes wings that are received in the channel when the tool storage container is attached to the base. This feature would be easily conceived from the disclosure of D2 considering that the projection (55) includes a locking foot (57b) having a rear-engaging section (62), wherein the rear-engaging section (62) comes into locking engagement with a rear-engaging projection (58) of the engaging recess (54b) when the upper container (1) is attached to the lower container (1) (see paragraphs [0103]-[0106] and figures 3-5, 10, 11). Accordingly, claim 19 would have been obvious over D3 in view of D2. Therefore, claim 19 does not involve an inventive step under PCT Article 33(3).

1.6.5 Concerning Claim 20

The additional feature of claim 20 is characterized in that the tool storage container is a first tool storage container, the tool cart further comprising a second tool storage container, the second tool storage container removably coupled to the first tool storage container (feature 1), wherein the second tool storage container slides in the first direction relative to the first tool storage container to attach the second tool storage container to the first tool storage container, and wherein the second tool storage container slides in the second direction relative to the first tool storage container to remove the second tool storage container from the first tool storage container (feature 2). D3 discloses that the storage container (21) is a first tool storage container (21), the apparatus (80) further comprising a second storage container (21') removably coupled to the first storage container (21), which corresponds to feature 1 (see paragraph [0056] and figure 11). In addition, D2 discloses that the upper container (1) slides the first direction relative to the lower container (1) to attach the upper container (1) to the lower container (1), wherein the upper container (1) slides in the second direction relative to the lower container (1) to remove the upper container (1) from the lower container (1), which corresponds to feature 2 (see paragraph [0050] and figures 10, 11). Accordingly, claim 20 would have been obvious over D3 in view of D2. Therefore, claim 20 does not involve an inventive step under PCT Article 33(3).

2. Industrial Applicability

Claims 1-20 are industrially applicable under PCT Article 33(4).

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 066749-2282	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2019/014940	International filing date (<i>day/month/year</i>) 24 January 2019 (24.01.2019)	(Earliest) Priority Date (<i>day/month/year</i>) 24 January 2018 (24.01.2018)
Applicant MILWAUKEE ELECTRIC TOOL CORPORATION		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of :

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1
- ☒ as suggested by the applicant.
- ☐ as selected by this Authority, because the applicant failed to suggest a figure.
- ☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2019/014940**A. CLASSIFICATION OF SUBJECT MATTER****B25H 3/02(2006.01)i, B65D 21/02(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B25H 3/02; B65D 21/00; B65D 21/02; B65D 21/036; B65D 55/14; B65D 85/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: container assembly, coupler, latch, latch receptacle, coupling wall, rib wall

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2017-191628 A1 (KETTER PLASTIC LTD.) 09 November 2017 See page 24, line 3 - page 25, line 22 and figures 1-4D, 7A-9B.	1-4
X	US 2011-0139665 A1 (MADSEN, JENS OLE) 16 June 2011 See paragraphs [0050]-[0055] and figures 1-7.	1
A	US 2009-0178946 A1 (PATSTONE et al.) 16 July 2009 See paragraphs [0027]-[0037] and figures 1-3.	1-4
A	US 2011-0155613 A1 (KOENIG et al.) 30 June 2011 See paragraphs [0048]-[0061] and figures 1-4.	1-4
A	US 2013-0127129 A1 (THE STANLEY WORKS ISRAEL LTD.) 23 May 2013 See paragraphs [0034]-[0041] and figures 1-3.	1-4



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

26 July 2019 (26.07.2019)

Date of mailing of the international search report

26 July 2019 (26.07.2019)

Name and mailing address of the ISA/KR

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Form PCT/ISA/210 (second sheet) (January 2015)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2019/014940

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		EP 2596920 B1	06/06/2018
		IL 223135 A	28/02/2013
		US 8979100 B2	17/03/2015

Form PCT/ISA/210 (patent family annex) (January 2015)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
CAMPBELL, Derck H.

1000 North Water Street Suite 1700 Milwaukee, Wisconsin
53202 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **26 July 2019 (26.07.2019)**

Applicant's or agent's file reference
066749-2282

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/US2019/014940

International filing date (day/month/year)
24 January 2019 (24.01.2019)

Priority date (day/month/year)
24 January 2018 (24.01.2018)

International Patent Classification (IPC) or both national classification and IPC

B25H 3/02(2006.01)i, B65D 21/02(2006.01)i

Applicant

MILWAUKEE ELECTRIC TOOL CORPORATION

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR
International Application Division
Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon,
35208, Republic of Korea
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Date of completion of this opinion

26 July 2019 (26.07.2019)

Authorized officer

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Form PCT/ISA/237 (cover sheet) (January 2015)

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US2019/014940

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:

- a. ☐ forming part of the international application as filed:
- ☐ in the form of an Annex C/ST.25 text file.
- ☐ on paper or in the form of an image file.
- b. ☐ furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
- c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
- ☐ in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).
- ☐ on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2019/014940

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	NONE	YES
	Claims	1-4	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-4	NO
Industrial applicability (IA)	Claims	1-4	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: WO 2017-191628 A1 (KETER PLASTIC LTD.) 09 November 2017

D2: US 2011-0139665 A1 (MADSEN, JENS OLE) 16 June 2011

I. Novelty and Inventive Step (PCT Article 33(2) and (3))

1. Claim 1

D1, which is considered to represent the most relevant state of the art, discloses a container assembly comprising: a first container (26) having a projecting portion (56) extending from a first face of the first container (26), the projecting portion (56) having a locking tongue (60) laterally projecting rearwards and having a slanted surface (62) and a locking latch (70); and a second container (28) having a recess (50) formed on a lid (L) of the second container (28) and configured to interface with the locking latch (70) and a locking locating (32) having a locking rib (36) configured to arrest the locking tongue (60) (see page 24, line 3 - page 25, line 22 and figures 1-4D).

As all of the features of claim 1 are disclosed in D1, claim 1 is anticipated by D1.

Therefore, claim 1 lacks novelty.

(Note: With respect to the Novelty and Inventive step, claim 1 is also anticipated by D2 since D2 discloses a storage arrangement comprising: a top case (10) having a catch flange (40) and a locking tap (19); and a lower case (11) having a recess (no sign, see figures 5-7) configured to interface with the locking tap (19) and a catch flange (14) configured to catch the catch flange (40) of the top case (10) (see paragraphs [0050]-[0055] and figures 1-7)).

Continued on Supplemental Box

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2019/014940

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of : Box No. V

2. Claims 2-4

The additional feature of claim 2 is identical to a pair of facing locking ribs (248) in D1 (see figures 7A-9B).

The additional features of claims 3-4 are identical to a plurality of pairs of facing locking ribs (248) configured to arrest engagement elements (240) in D1 (see figures 7A-9B).

Accordingly, claims 2-4 are anticipated by D1.

Therefore, claims 2-4 lack novelty.

II. Industrial Applicability (PCT Article 33(4))

Claims 1-4 are industrially applicable.

PATENT COOPERATION TREATY

Article 19 - 23/10/19
Demand - 24/04/20
NP - 24/12/20

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
SOKOL, Edith
REINHOLD COHN & PARTNERS
P.O. Box 13239
6113102 Tel Aviv
ISRAEL

RECEIVED
29.08.2019
REINHOLD COHN AND PARTNERS

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 2635353HDM <i>HADAS</i>	Date of mailing (day/month/year) 23 August 2019 (23-08-2019)
International application No. PCT/IL2019/050689	International filing date (day/month/year) 20 June 2019 (20-06-2019)
Applicant KETER PLASTIC LTD.	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the International Search Report.

How? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70

For more detailed instructions, see PCT Applicant's Guide, International Phase, paragraphs 9.004 - 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Within **22 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040 Fax: (+31-70) 340-3016	Authorized officer WEIßE, Mario Tel: +49 (0)89 2399-2350
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Form PCT/ISA/220 (July 2017)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2635353HDM	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IL2019/050689	International filing date (day/month/year) 20 June 2019 (20-06-2019)	(Earliest) Priority Date (day/month/year) 24 June 2018 (24-06-2018)
Applicant KETER PLASTIC LTD.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6**bis**(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☐ the text is approved as submitted by the applicant
☒ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1a

- ☒ as suggested by the applicant
☐ as selected by this Authority, because the applicant failed to suggest a figure
☐ as selected by this Authority, because this figure better characterizes the invention

b. ☐ none of the figures is to be published with the abstract

Form PCT/ISA/210 (first sheet) (January 2015)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL2019/050 689

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present disclosure concerns a hand truck comprising a frame (14) having a first end, and a second end (22) configured with a wheel set (26, 26), and a ledge (28) extending at said second end (22), wherein one or both of the frame and the ledge is configured with an articulation arrangement for detachably attaching thereto a utility unit, the articulation arrangement extending parallel to a plane of the respective frame or ledge.

Form PCT/ISA/210 (continuation of first sheet (3)) (July2009)

INTERNATIONAL SEARCH REPORT

International application No

PCT/IL2019/050689

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 5 951 037 A (HSIEH HUNG-CHING [TW] ET AL) 14 September 1999 (1999-09-14) column 2, line 13 - column 5, line 10; figures 1-11	1-3,6, 10-17 4,7,9 5,8
X Y A	----- US 5 797 617 A (LIN SHIOU CHANG [US]) 25 August 1998 (1998-08-25) column 3, line 32 - column 6, line 46; figures 1-7	1,3,4, 6-13, 15-17 4,7,9 2,5,14
X A	----- US 2013/223971 A1 (GRACE IV ROBERT W [US]) 29 August 2013 (2013-08-29) paragraph [0037] - paragraph [0052]; figures 1-5,6,7,11,12,13A-13C	1,3, 10-13, 15-17 2,4-9,14
X A	----- US 2012/160886 A1 (HENNY PAUL [US] ET AL) 28 June 2012 (2012-06-28) paragraph [0023] - paragraph [0029]; figures 1,2,4,5	1-3, 11-13,15 4-10,14, 16,17
X A	----- US 2007/090616 A1 (TOMPKINS MARY [US]) 26 April 2007 (2007-04-26) paragraph [0027] - paragraph [0037]; figures 1-4,8	1-3, 11-13,15 4-10,14, 16,17
X A	----- US 2003/184034 A1 (PFEIFFER MICHAEL [DE]) 2 October 2003 (2003-10-02) paragraph [0040] - paragraph [0046]; figures 1-9	1-3,11, 13,16 4-10,12, 14,15,17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IL2019/050689

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2289671	A2	02-03-2011	
		AU 2010214655 A1	17-03-2011
		CN 201923584 U	10-08-2011
		EP 2289671 A2	02-03-2011
		EP 2428330 A2	14-03-2012
		EP 2428331 A2	14-03-2012
		EP 2428332 A2	14-03-2012
		IL 207733 A	31-12-2014
		US 2011049824 A1	03-03-2011
		US 2014001719 A1	02-01-2014
WO 2017191628	A1	09-11-2017	
		AU 2017101718 A4	18-01-2018
		AU 2017260871 A1	21-12-2017
		AU 2018271253 A1	13-12-2018
		CA 2987892 A1	09-11-2017
		CN 107708935 A	16-02-2018
		DE 212017000011 U1	14-02-2018
		EP 3288719 A1	07-03-2018
		US 2018161975 A1	14-06-2018
		US 2018186513 A1	05-07-2018
		US 2019106244 A1	11-04-2019
		WO 2017191628 A1	09-11-2017
US 5951037	A	14-09-1999	
		DE 29714226 U1	09-10-1997
		US 5951037 A	14-09-1999
US 5797617	A	25-08-1998	NONE
US 2013223971	A1	29-08-2013	
		US 2013223971 A1	29-08-2013
		US 2015086323 A1	26-03-2015
US 2012160886	A1	28-06-2012	NONE
US 2007090616	A1	26-04-2007	NONE
US 2003184034	A1	02-10-2003	
		DE 10033698 A1	16-05-2002
		EP 1301101 A1	16-04-2003
		US 2003184034 A1	02-10-2003
		WO 0203829 A1	17-01-2002

Form PCT/ISA/210 (patent family annex) (April 2005)

TITLE: HAND TRUCK

APPLICANT: KETER PLASTIC LTD.

IPC CLASSIFICATION: B62B1/14, B62B3/04

EXAMINER: Jung, Wolfgang

CONSULTED DATABASES: WPI, EPDOC

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: B62B1/14, B62B3/04

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:

A hand truck comprising a frame having a first end, and a second end configured with a wheel set, and a ledge extending at said second end, wherein one or both of the frame and the ledge is configured with an articulation arrangement for detachably attaching thereto a utility unit, the articulation arrangement extending parallel to a plane of the respective frame or ledge.

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/IL2019/050689

International filing date (day/month/year)
20.06.2019

Priority date (day/month/year)
24.06.2018

International Patent Classification (IPC) or both national classification and IPC
INV. B62B1/14 B62B3/04

Applicant
KETER PLASTIC LTD.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☒ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0
Fax: +49 89 2399 - 4465

Date of completion of
this opinion

see form
PCT/ISA/210

Authorized Officer

Jung, Wolfgang

Telephone No. +49 89 2399-0



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/IL2019/050689

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed.
 - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).
2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
 - a. ☐ forming part of the international application as filed:
 - ☐ in the form of an Annex C/ST.25 text file.
 - ☐ on paper or in the form of an image file.
 - b. ☐ furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
 - ☐ in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 - ☐ on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/IL2019/050689

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	
	No: Claims	<u>1-17</u>
Inventive step (IS)	Yes: Claims	
	No: Claims	<u>1-17</u>
Industrial applicability (IA)	Yes: Claims	<u>1-17</u>
	No: Claims	

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

1 **Re Item V**

Reasoned statement with regard to novelty and inventive step; citations and explanations supporting such statement

1.1 **Prior art**

Reference is made to the following documents:

D1	EP 2 289 671 A2
D2	WO 2017/191628 A1
D3	US 5 951 037 A
D4	US 5 797 617 A
D5	US 2013/223971 A1
D6	US 2012/160886 A1
D7	US 2007/090616 A1
D8	US 2003/184034 A1

-
1.2 **Independent claim 1**

The present application does not meet the criteria of Article 33(2) PCT, because the subject-matter of claim 1 is not new, since each of documents D1-D8 is regarded to disclose the subject-matter of claim 1 for the following reasons:

1.2.1 D1

D1 discloses (cf. paragraph [0006] - paragraph [0017]; figures 1-7, 11A and paragraph [0061] - paragraph [0064]; figures 13-16, 19, 20A, 20B):

A hand truck (cf. e.g. fig. 15) comprising a frame (17) having a first end, and a second end (e.g. the lower end) configured with a wheel set (12), and a ledge (46, 49, 50, 51a) extending at said second end, wherein the frame (17) is configured with an articulation arrangement (18a) for detachably attaching thereto a utility unit (20, 22, 24), the articulation arrangement extending parallel to a plane of the respective frame (at least in a state of the articulation arrangement as shown in figures 6 or 19).

Therefore document D1 discloses the subject-matter of claim 1.

1.2.2 D2

The term "ledge" may be interpreted as "a relatively narrow, projecting part, as a horizontal, shelf-like projection on a wall" or "a raised edge on a tray".

Taking said term in combination with a first type of hand truck disclosed in figures 6A-6D or 16B into account then the protruding base part (106) in figures 6A-6D or 16B can be interpreted as being "a ledge" of said hand truck.

Document D7 also discloses another type of hand truck disclosed in figures 7A, 7B, 8A and 16A. With respect to said second type of hand truck according to an alternative embodiment (not shown in the figures; cf. page 31, l. 27-29):

"The carrying unit can be fitted with a collapsible support plate configuring it into a pushcart (not shown)."

Hence the collapsible support plate can be interpreted as being a "ledge" for said second type of hand truck.

Taking this interpretation of the term "ledge" into account then document D2 discloses (cf. page 23, line 12 - page 26, line 28; figures 1A-1D, 2A-2C, 3A-3D-4A-4D-6A-6D, 6A-6D; page 26, line 29 - page 30, line 13; figures 7A, 7B, 8A, 8B, 9A-9D, 10A, 10B, 11A, 11B, 16A, 16B):

A hand truck

- a first type of hand truck is shown in figure 6A and 16B having the reference number (106),
- a second type of hand truck (206) is disclosed in fig. 8A or 16A together with an alternative embodiment (not shown in the figures)

comprising:

a frame having a first end, and a second end configured with a wheel set (116; 208), and a ledge (in fig. 6A-6D and 16B the box (106) is interpreted as being a ledge and in 7A, 7B, 8A and 16A the collapsible support plate is interpreted to be a ledge) extending at said second end,

wherein for the first type of hand truck a top surface of the ledge and for the second type of hand truck the frame is configured with an articulation arrangement (cf. fig. 8A, 9A-9D) for detachably attaching thereto a utility unit (108; 202), the articulation arrangement extending parallel to a plane of the respective frame or ledge (cf. fig. 8A, 9C and 9D).

Hence also document D2 is regarded to disclose a hand truck having all the features of present claim 1.

1.2.3 D3

D3 discloses (cf. column 2, line 13 - column 5, line 10; figures 1-11):

A hand truck comprising a frame (20) having a first end, and a second end configured with a wheel set (56), and a ledge (50) extending at said second end, wherein the frame (20) is configured with an articulation arrangement (35, 35) for detachably attaching thereto a utility unit (83), the articulation arrangement extending (at least the hoke shaped end portions (352)) parallel to a plane of the respective frame (20).

Hence also document D3 is regarded to disclose a hand truck having all the features of present claim 1.

1.2.4 D4

D4 discloses (cf. column 3, line 32 - column 6, line 46; figures 1-7):

A hand truck (14) comprising a frame having a first end, and a second end configured with a wheel set (26), and a ledge (60) extending at said second end, wherein the frame is configured with an articulation arrangement (cf. fig. 2, 8) for detachably attaching thereto a utility unit (16), the articulation arrangement (at least the hook shaped end portions (54) extending parallel to a plane of the respective frame.

Hence also document D4 is regarded to disclose a hand truck having all the features of present claim 1.

1.2.5 D5

D5 discloses (cf. paragraph [0037] - paragraph [0052]; figures 1-5,6,7,11,12,13A-13C):

A hand truck (first type: cf. fig. 1, 5; second type: fig. 11-13) comprising a frame having a first end, and a second end configured with a wheel set (315), and a ledge (310) extending at said second end, wherein the frame is configured with an articulation arrangement (320; 551) for detachably attaching thereto a utility unit (403), the articulation arrangement (320; and the hook shaped end portion (553)) extending parallel to a plane of the frame (cf. fig. 5 and fig. 13A-13C).

Hence also document D5 is regarded to disclose a hand truck having all the features of present claim 1.

1.2.6 D6

D6 discloses (cf. paragraph [0023] - paragraph [0029]; figures 1, 2, 4, 5):

A hand truck (6) comprising a frame (cf. fig. 4, 5) having a first end, and a second end configured with a wheel set (10, 11), and a ledge (13) extending at said second end, wherein the frame is configured with an articulation arrangement (5) for detachably attaching thereto a utility unit (1), the articulation arrangement (5) extending parallel to a plane of the frame (8, 9, 16).

Hence also document D6 is regarded to disclose a hand truck having all the features of present claim 1.

1.2.7 D7

D7 discloses (cf. paragraph [0027] - paragraph [0037]; figures 1-4,8):

A hand truck (10) comprising a frame having a first end, and a second end configured with a wheel set (18, 18), and a ledge (22) extending at said second end, wherein the frame is configured with an articulation arrangement (60) for detachably attaching thereto a utility unit, the articulation arrangement (60) extending parallel to a plane of the frame.

1.2.8 D8

D8 discloses (cf. paragraph [0040] - paragraph [0046]; figures 1-9):

A hand truck (10) comprising a frame (cf. fig. 8) having a first end, and a second end configured with a wheel set (11, 11), and a ledge (18) extending at said second end, wherein the frame is configured with an articulation arrangement (14a, 14b) for detachably attaching thereto a utility unit (20a, 20b), the articulation arrangement (14a, 14b) extending parallel to a plane of the frame.

1.3 Dependent claims 2-17

Dependent claims 2-17 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, for the following reasons:

Claims 2-17:

D2 discloses (cf. page 23, line 12 - page 26, line 28; figures 1A-1D, 2A-2C, 3A-3D-4A-4D-6A-6D6A-6D; page 26, line 29 - page 30, line 13; figures 7A,7B, 8A,8B,9A-9D,10A,10B,11A,11B,16A, 16B) the additional subject-matter of claims 2-17, i.e.:

- attaching a utility unit (220) to the articulation arrangement takes place along a sliding path (P) extending parallel to the plane of the respective frame (cf. fig. 7A, 8A, 9A-9D).
- the articulation arrangement (240, 248) is a male-female type coupling arrangement, and wherein the frame is configured with a female coupler (248) and is configured for detachably attaching thereto a utility unit (220) configured with the male coupler (240).
- a utility unit articulation face (cf. fig. 8A) of the hand truck comprises at least one male coupler (240) at a face of the utility unit (202), and a female coupler (248) at the articulation face, said female coupler (248) having a depressed locking location (cf. fig. 9C) configured with at least one locking rib (248) extending above a depressed plain and along a sliding path, and having an open edge facing in a first sense; said male coupler (240) having a projecting locking location disposed in register with said depressed locking location and configured with at least one locking tongue extending along an engaging sliding path at a second sense, opposite to said first sense, and configured for arresting engagement at a space between said locking rib (248) and depressed plain;
- at least one locking rib (cf. fig. 8A) extends substantially parallel to the sliding path (P);
- the at least one locking rib extends substantially perpendicular and intersect the sliding path (cf. fig. 8A);
- the female coupler (248) comprises a single locking rib (248) extending at rear end of the depressed locking location and substantially perpendicular to the sliding path;
- the female coupler comprises two locking ribs (cf. fig. 8A) extending at side edges of the depressed locking location and disposed substantially parallel to the sliding path (P);
- the female coupler (236) comprises two locking ribs each extending at a respective side edge of two neighboring depressed locking locations, said locking ribs disposed substantially parallel to the sliding path (cf. fig. 8A).
- the coupling arrangement is configured as a snap-type locking of a utility unit over the articulation face (cf. fig. 10B);
- the hand truck is an L-shaped cart (taking the collapsible support plate, disclosed in page 31, l. 27-29 into account);

- the ledge is pivotable between a first position at which it extends substantially normal to the frame and is configured for bearing loads, and a collapsed position at which it extends substantially against the frame at a stowed position (collapsible support plate; cf. page 31, I. 27-29).
- the articulation arrangement is disposed on either of a front face and a rear face of the frame coupling arrangement is a set of couplers or a unitary coupling system (cf. fig. 9A).
- the articulation arrangement is disposed on a top face of the ledge (cf. (106) in fig. 6A);
- the female coupler is configured at the top face of the articulation face (cf. fig. (8A)).
- the articulation arrangement further comprises a locking mechanism (230) (cf. fig. 10B) for preventing unintentional separation of the utility unit (202) from the articulation face, while they are interlocked.
- the locking mechanism (230) comprises at the top face of the articulation face a locking latch arresting location (cf. fig. 10B), and the bottom face of the utility unit (202) can comprise a locking member (231, 237, 235) displaceable and disposed in register with said locking latch arresting location, wherein at a locked position the locking member is arrested by the corresponding locking latch arresting location, and further wherein disengaging the utility unit from the hand truck is facilitated by disengaging the locking latch from the locking latch arresting location.

Moreover, document D1 (cf. paragraph [0006] - paragraph [0017]; figures 1-7, 11A; paragraph [0061] - paragraph [0064]; figures 13-16, 19, 20A, 20B) is regarded to disclose the additional subject-matter of claims 3-11, 13, 15, 16 and 17. The ledge known from the hand truck according to D1 is not disclosed as being collapsible. However, to save space during inactivity of the hand truck the provision of a collapsible ledge as defined in claim 12 would be a straightforward possibility, which the skilled person would use, depending on the circumstances, without the exercise of inventive skill.

Document D3 (cf. column 2, line 13 - column 5, line 10; figures 1-11) is regarded to disclose the additional subject-matter of claims 2-3, 6, 10-17. In D3 no depression is formed at the utility unit, but a protruding portion (80). From document D4 it is known to provide the utility box either with a protruding coupling arrangement (cf. fig. 2) as in D4 or alternatively with a depression (cf. fig. 8). Depending on the circumstances the skilled person would consider using

a depression in the hand truck known from document D3 without the exercise of inventive skill. Therefore the additional subject-matter of claims 4, 7 and 9 is not regarded to involve an inventive step over document D3 in view of the well known alternative solution shown in fig. 8 of D4.

Document D4 (cf. column 3, line 32 - column 6, line 46; figures 1-7) is regarded to disclose the additional subject-matter of claims 3, 4, 6-13 and 15-17.

Document D5 (paragraph [0037] - paragraph [0052]; figures 1-5, 6, 7, 11, 12, 13A-13C) is regarded to disclose the additional subject-matter of claims 3, 10-13 and 15-17.

Document D6 (cf. paragraph [0023] - paragraph [0029]; figures 1,2,4,5) is regarded to disclose the additional subject-matter of claims 2, 3, 11-13 and 15.

Also document D7 (cf. paragraph [0027] - paragraph [0037]; figures 1-4,8) is regarded to disclose the additional subject-matter of claims 2, 3, 11-13 and 15.

Document D8 (cf. paragraph [0040] - paragraph [0046]; figures 1-9) is regarded to disclose the additional subject-matter of claims 2, 3, 11, 13 and 16.

2 Re Item VII

Certain defects in the international application

- 2.1 The features of claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

3 Re Item VIII

Certain observations on the international application

- 3.1 As explained below, some of the features in the apparatus claim 2 relate to a method of using the apparatus rather than clearly defining the apparatus in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT.
- 3.2 In claim 4 a utility unit articulation face of the hand truck is defined via at least one male coupler at the hand truck or the utility unit, and a female coupler at the other one of the hand truck or the utility unit.

However, either of the male or the female coupler is coupled to the utility unit which is not part of the claimed hand truck. Nevertheless claim 4 defines the hand truck via specific features of both the male coupler and the female coupler, which results in a lack of clarity in the sense of Article 6 PCT, since at least one of the male or the female coupler is not part of the claimed subject-matter.

- 3.3 Claim 5 further defines the hand truck via a positioning of the at least one locking rib (44) of the female coupler (40). However, in the event that the female coupler is not part of the claimed hand truck then defining the hand truck via features not being part of the hand truck also results in a lack of clarity in the sense of Article 6 PCT. The same objection applies to claims 6-9, each thereof further defining the hand truck by features of the female coupler which according to present claim 4 is not necessarily a part of the claimed hand truck.
- 3.4 Claim 13 is dependent on present claim 1 and further defines the hand truck in that the articulation arrangement is disposed on either or both of "a front face and a rear face of the frame coupling arrangement is a set of couplers or a unitary coupling system." No frame coupling arrangement is defined in claim 1. Therefore the meaning of claim 13 is not clear - contrary to the requirements of Article 6 PCT. Moreover the phrase seems to be grammatically incorrect.
- 3.5 Claim 15 is dependent on present claim 1 and further defines the hand truck by features of a female coupler, which is not part of claim 1. Therefore the subject-matter of claim 15 is not clear - contrary to the requirements of Article 6 PCT.
- 3.6 Claim 16 is dependent on present claim 1 and further defines the hand truck in that the articulation arrangement further comprises "a locking mechanism for preventing unintentional separation of the utility unit from the articulation face, while they are interlocked". Since the articulation face is not defined in claim 1 the subject-matter of claim 16 is not clear - contrary to the requirements of Article 6 PCT.
- 3.7 Claim 17 is dependent on present claim 1 and further defines the hand truck in that the locking mechanism comprises at one of a top face of the articulation face and a bottom face of the utility unit a locking latch arresting location. The remaining features of said claim are entirely optional by "can comprise" (... and the other one of said top face of the articulation face and a bottom face of the utility unit **can comprise** a locking member displaceable and disposed in register with said locking latch arresting location, wherein at a locked position the locking member is arrested by the corresponding locking latch arresting location, and further wherein disengaging the utility unit from the hand truck is

facilitated by disengaging the locking latch from the locking latch arresting location). In the event that the locking latch arresting location is located at the utility unit, which is not part of the claimed hand truck, then claim 17 would define the subject-matter by means of features, which are not part of the claimed subject-matter, which would again result in a lack of clarity in the sense of Article 6 PCT.

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO/ISA)

General information

For all international applications, the competent International Searching Authority (ISA) will establish an international search report (ISR) accompanied by a written opinion of the International Searching Authority (WO/ISA). The WO/ISA may be responded to by

- filing informal comments with the International Bureau of WIPO (IB) (where no demand for international preliminary examination (demand) is filed)
- filing amendments under Art. 19 PCT (this can be done whether or not a demand is filed)
- filing amendments under Art. 34 PCT and/or formal observations in response to objections raised in the WO/ISA (where a demand is actually filed)

This document explains these possibilities.

Filing informal comments

After receipt of the ISR and WO/ISA, the applicant may file informal comments on the WO/ISA, directly with the IB (see International Search and Preliminary Examination Guidelines 2.15). These will be communicated to the designated/elected Offices, together with the International Preliminary Report on Patentability (IPRP) at 30 months from the priority date.

Amending claims under Art. 19 PCT

The applicant may file amended claims under Art. 19 PCT, directly with the IB by the later of the following dates:

- 2 months from the date of mailing of the ISR and the WO/ISA
- 16 months from the priority date

However, any such amendment received by the IB after the expiration of the applicable time limit shall be **considered to have been received on time** by the IB, if it reaches it **before** the technical preparations for international publication have been completed (the 15th day prior to the date of publication, see PCT Applicant's Guide, International Phase, 9.013).

For further information, please see Rule 46 PCT as well as form PCT/ISA/220.

Please also note that, when filing amended claims under Art. 19 PCT, such amendments shall be **accompanied by a letter** identifying the amendments made and also the basis for the amendments in the application as originally filed (Rule 46.5(b) PCT). Where a **demand** is filed, failure to comply with this requirement may result in the amendments being ignored in the International Preliminary Examination Report (IPER), see Rule 70.2(c-bis) PCT.

**Filing a demand
for international
preliminary
examination**

In principle, the **WO/ISA** will be considered to be the written opinion of the International Preliminary Examining Authority (**IPEA**). Where the **WO/ISA** issued by the **EPO** as **ISA** gives a positive opinion on the international application and the invention to which it relates, filing a **demand** with the **EPO** as **IPEA** would normally be unnecessary, since a positive **IPRP** would anyway be established by the **IB** based on the **WO/ISA** (see also further below).

If the applicant wishes to file a **demand** (for example, to allow him to argue his case in international preliminary examination with regard to objections raised in a negative **WO/ISA** before the **IPEA** issues an **IPER**), this must be done before expiration of **3 months after the date of mailing of the ISR and WO/ISA** or **22 months after priority date**, whichever expires later (Rule 54*bis* PCT). Amendments under Art. 34 PCT can be filed with the **IPEA**, normally at the same time as filing the demand (Rule 66.1(b) PCT) or within the time limit set for reply to any written opinion issued during international preliminary examination by the **IPEA**.

If a **demand** is filed at the **EPO** as **IPEA** and no comments/amendments have been received by the time the **EPO** starts drawing up the **IPER** (Rule 66.4*bis* PCT), the **WO/ISA** will be transformed by the **IPEA** into an **IPER** (also called the **IPRP (Chapter II)** which would merely reflect the content of the **WO/ISA** (OJ 10/2011, 532). The **demand** can still be withdrawn (Art. 37 PCT).

Please also note that, when filing amendments under Art. 34 PCT, such amendments shall be accompanied by a letter which identifies the amendments made and also the basis for the amendments in the application as originally filed (Rule 66.8(a) PCT). Failure to comply with this requirement may result in the amendments being ignored in the **IPER (IPRP (Chapter II))**, see Rule 70.2(c-*bis*) PCT.

**Filing a request
for supplementary
international
search**

The applicant may, with the **IB**, file a request for **supplementary international search** under Rule 45*bis*.1 PCT. The present **ISR** and **WO/ISA** may also be taken into account in the execution of that supplementary international search, provided that these are available to the Authority charged with this task before it starts the supplementary search (Rule 45*bis*.5 PCT).

This kind of request **cannot be filed specifying the ISA** who did the international search.

More information on this topic can be found in the **PCT Applicant's Guide**, Chapter 8 (<http://www.wipo.int/pct/en/guide/ip08.html>).

**End of the
international
phase**

Where no **demand** is filed, at the end of the international phase, the **IB** will transform the **WO/ISA** into the **IPRP (PCT Chapter I)** (Rule 44*bis* PCT), which will then be transmitted together with possible informal comments to the designated Offices. Where a demand is filed, the **WO/ISA** is not transformed into an **IPRP (Chapter I)** by the **IB**, but rather the **IPEA** will establish an **IPER**, (the **IPER** is the same as the **IPRP (PCT Chapter II)**, see Rule 70.15 PCT).

IPRP

Electronic Acknowledgement Receipt	
EFS ID:	37938086
Application Number:	16216724
International Application Number:	
Confirmation Number:	1402
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Andrea Dietzel
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2270
Receipt Date:	05-DEC-2019
Filing Date:	11-DEC-2018
Time Stamp:	13:52:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	066749-2270_Transmittal.pdf	134911	no	2
			34814296bd6a9ac8a6aebb017f3c4b97ddc20540		
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	066749-2270_SB08.pdf	132056	no	2
			19b548d33223b2a51cc4e249b1111d3d825b30e3		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Foreign Reference	WO07121745A1.pdf	482860	no	14
			51fa20911ca582b34708c57c3e66e04a71b490b		
Warnings:					
Information:					
4	Foreign Reference	WO07121746A2.pdf	487442	no	14
			8da97e25e29ff3fd1ed89a4f2b41661579dcd203		
Warnings:					
Information:					
5	Foreign Reference	WO09140965A1.pdf	1487895	no	24
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Warnings:					
Information:					
6	Foreign Reference	WO11009480A1.pdf	1673566	no	42
			333f573ed310656d3225bed1bfcf11c9a4373ef7		
Warnings:					
Information:					
7	Foreign Reference	WO13026084A1.pdf	1048480	no	25
			e06525872f58d7e4f327a3a1192ce4e2d1b6c3ca		
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Information:					
8	Foreign Reference	WO14125488A2.pdf	4154742	no	72
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9	Foreign Reference	WO17212840A1.pdf	713206	no	25
			d2a321c1efde3dc292357837059606434b41b19f		
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10	Foreign Reference	WO2007121745A1.pdf	482886	no	14
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11	Foreign Reference	WO2017171628.pdf	6500081	no	81
			46f265e50cb5ae4787adc5f14d7b05b9c92f2c18		
Warnings:					
Information:					
12	Other Reference-Patent/App/Search documents	A10_ISRWO_1.pdf	2569056	no	14
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13	Other Reference-Patent/App/Search documents	A11_ISRWO_2.pdf	1155196	no	7
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14	Other Reference-Patent/App/Search documents	A12_ISRWO_3.PDF	2327657	no	21
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Information:					
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Information:					

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23	Non Patent Literature	A21_A_NPL.pdf	3156642	no	17
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Warnings:					
Information:					
24	Non Patent Literature	A23_D_NPL.pdf	1431342	no	7
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Warnings:					
Information:					
Total Files Size (in bytes):				31977430	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation
Title: Utility Assembly and Coupling Mechanism
Appl. No.: 16/216,724
Filing Date: December 11, 2018
Examiner: WEINERTH, GIDEON R
Art Unit: 3736
Confirmation Number: 1402

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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

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

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR § 1.97 and §1.98.

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

TIMING OF THE DISCLOSURE

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

RELEVANCE OF EACH DOCUMENT

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

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

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

Respectfully submitted,

Date December 4, 2019

By /Derek H. Campbell/

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Customer Number: 142078
Telephone: (414) 298-8374
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Derek H. Campbell
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

142078 7590 01/08/2020
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

EXAMINER

WEINERTH, GIDEON R

ART UNIT

PAPER NUMBER

3736

DATE MAILED: 01/08/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/216,724	12/11/2018	Yaron Brunner	066749-2270	1402

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	04/08/2020

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.

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

142078 7590 01/08/2020
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/216,724	12/11/2018	Yaron Brunner	066749-2270	1402

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	04/08/2020

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

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

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/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, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

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

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

(A) NAME OF ASSIGNEE

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

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

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

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

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

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

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

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/216,724	12/11/2018	Yaron Brunner	066749-2270	1402
142078	7590	01/08/2020	EXAMINER	
Reinhart (Milwaukee Tool)			WEINERTH, GIDEON R	
ATTN: TRAVIS MCDONNELL, PARALEGAL			ART UNIT	
1000 NORTH WATER STREET			PAPER NUMBER	
SUITE 2100			3736	
MILWAUKEE, WI 53202			DATE MAILED: 01/08/2020	

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/216,724	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

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

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

1. ☒ This communication is responsive to 12/5/2019.

☐ 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 a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

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

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

Attachment(s)

1. ☒ Notice of References Cited (PTO-892) 2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>12/5/2019</u> . 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
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/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Continuation of 3. The allowed claim(s) is/are: 1-3,5-6,14-17,20-21 and 23

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: As discussed in the Previous Office Action of 6/13/2019, Claims 1 - 3, 6, 7, 9, 11, 12, 14, 15, 16, 17, 20-22 were allowed. The presently amended claims overcome all other 112 rejections and drawing objections.

2. Furthermore, the references cited in the IDS of December 5, 2019 have been considered in addition to the references cited in the related Applications 15/826201 and 15/826232.

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. 16/216,724	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-20190106244-A1	04-2019	Brunner; Yaron	A45F3/10	1/1
*	B	US-20170138382-A1	05-2017	KO; Kenneth H.	F16B12/24	1/1
*	C	US-10434638-B1	10-2019	Tsai; Chung-Yu	B25H3/023	1/1
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

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

Notice of References Cited

Part of Paper No. 20191222

<i>Search Notes</i> 	Application/Control No. 16/216,724	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

CPC - Searched*		
Symbol	Date	Examiner
A45C5/14	1/16/2019	GW
A45C7/0045,005	01/16/2019	GW
A45C13/02	01/16/2019	GW
A45F3/10	1/16/2019	GW
A47B47/00,04,	1/16/2019	GW
A47B67/04	1/16/2019	GW
A47B87/02,007,0276	1/16/2019	GW
A47B88/90	1/16/2019	GW
A47B2210/19	1/16/2019	GW
B25H1/04	1/16/2019	GW
B25H3/021,022,023,04,06,02,	1/16/2019	GW
B62B1/14	1/16/2019	GW
B62B5/067	1/16/2019	GW
B65D21/0217,0219,0222,0228,023,0224,02,0223,0212,0204,0209,	1/16/2019	GW
B65D2255/00	1/16/2019	GW
B65D25/2823,06	1/16/2019	GW
B65H2701/533	1/16/2019	GW
B60P7/13,06	1/16/2019	GW
E04F2201/013,0146,023,05,	1/16/2019	GW
Y10S292/38,53	1/16/2019	GW
Y10T403/7045	1/16/2019	GW
Update Search/IDS search	06/09/2019	GW
A45C5/14	06/09/2019	GW
A45C7/0045,005	06/09/2019	GW
F16B12/24,44	06/09/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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Search Notes 	Application/Control No. 16/216,724	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
206	508,511,504,503,501,	1/16/2019	GW
220	4.27	1/16/2019	GW
280	47.18,47.19,47.26,79.2,47.26,47.28,652,	1/16/2019	GW
312	107,111	1/16/2019	GW
410	84	1/16/2019	GW
248	224.7,225.21	1/16/2019	GW

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

Search Notes		
Search Notes	Date	Examiner
Update search. Include searches for applications 15826201, 15826232	09/03/2019	GW
Update search including IDS of 12/5/2019 and related applications	12/22/2019	GW

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

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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Search Notes 	Application/Control No. 16/216,724	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

206	508,511,504,503,501,	09/03/2019	GW
220	4.27	09/03/2019	GW
280	47.18,47.19,47.26,79.2,47.26,47.28,652,	09/03/2019	GW
312	107,111	09/03/2019	GW
410	84	09/03/2019	GW
248	224.7,225.21	09/03/2019	GW
A45C5	14	09/03/2019	GW
A45C7	0045,005	09/03/2019	GW
A45C13	02	09/03/2019	GW
A45F3	10	09/03/2019	GW
A47B47	00,04,	09/03/2019	GW
A47B67	04	09/03/2019	GW
A47B87	02,007,0276	09/03/2019	GW
A47B88	90	09/03/2019	GW
A47B2210	19	09/03/2019	GW
B25H1	04	09/03/2019	GW
B25H3	021,022,023,04,06,02,	09/03/2019	GW
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B62B5	067	09/03/2019	GW
B65D21	0217,0219,0222,0228,023,0224,02,0223,0212,0204,0209,	09/03/2019	GW
B65D2255	00	09/03/2019	GW
B65D25	2823,06	09/03/2019	GW
B65H2701	533	09/03/2019	GW
B60P7	13,06	09/03/2019	GW
E04F2201	013,0146,023,05,	09/03/2019	GW
F16B12	24,44	09/03/2019	GW
Y10S292	38,53	09/03/2019	GW
Y10T403	7045	09/03/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736
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<i>Index of Claims</i> 	Application/Control No. 16/216,724	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	06/09/2019	09/04/2019							
	1	=	=							
	2	=	=							
	3	=	=							
	4	-	-							
	5	✓	=							
	6	=	=							
	7	=	-							
	8	✓	-							
	9	=	-							
	10	✓	-							
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	14	=	=							
	15	=	=							
	16	=	=							
	17	=	=							
	18	✓	-							
	19	✓	-							
	20	=	=							
	21	=	=							
	22	=	-							
	23		=							

Issue Classification 	Application/Control No. 16/216,724	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

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

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	12	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	22 December 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

U.S. Patent and Trademark Office

Part of Paper No.: 20191222

Issue Classification 	Application/Control No. 16/216,724	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

INTERNATIONAL CLASSIFICATION			
CLAIMED			
B65D	/	21	/ 02
B65D	/	21	/ 028
A45C	/	13	/ 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)	12	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	22 December 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

U.S. Patent and Trademark Office

Part of Paper No.: 20191222

Issue Classification 	Application/Control No. 16/216,724	Applicant(s)/Patent Under Reexamination Brunner et al.
	Examiner GIDEON R WEINERTH	Art Unit 3736

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47																
CLAIMS																
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Original
1	1		10		19											
2	2		11	11	20											
3	3		12	6	21											
	4		13		22											
4	5	7	14	12	23											
5	6	8	15													
	7	9	16													
	8	10	17													
	9		18													

NONE (Assistant Examiner) (Date)		Total Claims Allowed: 12	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner) (Date)		22 December 2019 (Date)	O.G. Print Claim(s) 1
			O.G. Print Figure 1A

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

PTO/SB/08 (09-06)

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

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

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 5, 2019 <i>(use as many sheets as necessary)</i>				Application Number	16/216,724
				Filing Date	December 11, 2018
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	1	of	5	Attorney Docket Number	066749-2270

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Signature	/GIDEON R WEINERTH/			Date Considered	12/22/2019

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 5, 2019 <i>(use as many sheets as necessary)</i>				Application Number	16/216,724
				Filing Date	December 11, 2018
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	2	of	5	Attorney Docket Number	066749-2270

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				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	3	of	5	Attorney Docket Number	066749-2270

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/G.R.W/	A11	International Search Report and Written Opinion for International Application No. PCT/US2019/014940, dated July 26, 2019, 7 pages.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 5, 2019 <i>(use as many sheets as necessary)</i>				Application Number	16/216,724
				Filing Date	December 11, 2018
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	2	of	2	Attorney Docket Number	066749-2270

NON PATENT LITERATURE DOCUMENTS			
Exami ner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
/G.R.W./	A12	International Search Report and Written Opinion for International Application No. PCT/IL2019/050689, dated August 23, 2019, 21 pages.	
/G.R.W./	A13	STUART, "Sys-Cart Base, a Systainer Mounting Platform," TOOLGUYD, July 28, 2014, https://toolguyd.com/systainer-sys-cart-mounting-base/ , 11 pages.	
/G.R.W./	A14	"BluCave Universal Storage System," BATAVIA Tools to Build, https://batavia.eu/blucave-storage-system/ , believed to be available at least as early as November 29, 2017, 5 pages.	
/G.R.W./	A15	"Dewalt TSTAK Carrier Trolley," ITS, https://www.its.co.uk/pd/171229-Dewalt-TSTAK-Carrier-Trolley-DEW171229.htm , Per Wayback, website dates back to May 2, 2015, 2 pages.	
/G.R.W./	A16	"Tool Skool, TSTAK Phase 2 Upgrades TSTAK Carts – First Look – Tool Skool," YouTube, September 7, 2013, https://www.youtube.com/watch?v=jb06y6J1dr4&feature=youtu.be&t=197 , 1 page.	
/G.R.W./	A17	"DeWalt TSTAK Vac Rack (Suits DW DWV902M & DWV900L) DWV9500-XJ," Get Tools Direct, https://www.gettoolsdirect.com.au/dewalt-tstak-vac-rack-suits-dwv902m-and-dwv900l-dwv9500-xj.html , believed to be available at least as early as November 29, 2017, 4 pages.	
/G.R.W./	A18	STUART, "Ryobi ToolBlox Tool Cabinet System!," TOOLGUYD, September 18, 2014, https://toolguyd.com/ryobi-toolblox-cabinets/ , 23 pages.	
/G.R.W./	A19	"Blitz Box – Portable Storage Box / Shelf," The Green Head Finds Cool New Stuff, https://www.thegreenhead.com/2013/03/blitz-box-portable-storage-box-shelf.php , Per Wayback, website dates back to February 15, 2015, 5 pages.	
/G.R.W./	A20	"Hopkins FloTool 91002 Rhino Box with Mount," Amazon.com, https://www.amazon.com/exec/obidos/ASIN/B003K15F3I/20140000-20 , believed to be available at least as early as November 29, 2017, 7 pages.	
/G.R.W./	A21	Sortimo Logistix, "Mobile Sortimente", brochure, believed to be available at least as early as November 29, 2017, 17 pages.	
/G.R.W./	A22	BluCave Video, https://www.youtube.com/watch?v=Sw7fQQPwoOtY&feature=youtu.be&t=32 , believed to be available at least as early as November 29, 2017.	
/G.R.W./	A23	Batavia GmbH, BluCave Storage System, https://protect-us.mimecast.com/s/5XIGCR6KypcgJnIKi9E?domain=batavia.eu , believed to be available at least as early as November 29, 2017, 7 pages.	
/G.R.W./	A24	VERTAK, https://www.alibaba.com/product-detail/Vertak-global-patented-multi-function-portable_60217794260.html , believed to be available at least as early as November 29, 2017.	

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	12/22/2019
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Bibliographic Data

Application No: 16/216,724

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.
12/11/2018	220	3736	066749-2270
RULE			

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CONTINUING DATA

This application is a CON of 15826232 11/29/2017

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

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

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

FOREIGN APPLICATIONS

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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
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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
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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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

		"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

		"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

		"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

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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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
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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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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" "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"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:50

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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

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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
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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"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17

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S172	969	Y10S292/38,53.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:25
S173	35	E04F2201/013.cpc.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:25
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

			PGPUB; USPAT; USOCR			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" "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
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"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05

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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;	OR	OFF	2018/11/21 20:10

			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
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"	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:39

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"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"
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"6622856"	"6675965"	"6675967"
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"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"
"8267245"	"8267247"	"8272628"
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"8657307"	"D259154"	"D272203"
"D309981"	"D326815"	"D333215"
"D333487"	"D347731"	"D355849"
"D368159"	"D370619"	"D374772"
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"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"
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"D599112"	"D600015"	"D600912"
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"D618911"	"D624317"	"D627968"
"D629607"	"D630435"	"D630851"
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"D673774"	"D701696"	"D744750"

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S210	15	("2007/0194543").URPN.	USPAT	OR	OFF	2018/11/22 19:40
S211	56	("1478913" "20010035704" "20050159784" "20050269792" "20060006621" "20060144732" "20070194543" "20070235959" "20080128305" "20090301913" "20100289236" "20100295430" "20110127736" "20120292870" "20130118818" "3861703" "3874531" "4435115" "4726602" "4822116" "4846485" "4858940" "4976450" "4993551" "5174447" "5378005" "5452908" "5573089" "5743607" "5799958" "5893572" "6027128" "6170839" "6439585" "6446987" "6702168" "6935641" "6945546" "7044569" "7083174" "7314134" "7328905" "7431313" "7434819" "7503569" "7661685" "7905502" "8226092" "8376376" "8668209" "D182716").PN. OR ("8915504").URPN.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:40
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" "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.	US- PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:46
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"	US-	OR	OFF	2018/11/23

		"2004900" "3133771" "3409162" "3529878" "3606506" "3729242" "3758181").PN. OR ("5246105").URPN.	PGPUB; USPAT; USOCR			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-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

		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
S228	1	"20170174392".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:54
S229	14	(US-20180290288-\$ or US-20180161975-\$ or US-20170239808-\$ or US-20170121056-\$ or US-20080169739-\$ or US-20080134607-\$ or US-20080104921-\$ or US-20060038367-\$).did. or (US-9872562-\$ or US-9566990-\$ or US-7841144-\$ or US-6547347-\$ or US-5429260-\$).did. or (US-2430200-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 21:07
S230	6	((("20120228074") or ("20120152800") or ("20170318927") or ("20110220531") or ("20110073516") or ("7841144")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:31
S231	5	("20040163913" "20050199459" "20100147642" "20120228074" "20120312812").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:33
S232	14	("1299291" "1643397" "2706036" "3811562" "4020930" "4790417" "5671830" "0758019" "D135357").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:35
S233	325	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:40
S234	0	("2018/0161975").URPN.	USPAT	OR	OFF	2019/02/20 19:42
S235	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
S236	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
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S238	33	S235 S236 S237	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
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EAST Search History (Interference)

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S276	24	"Term Removed" or "Term Removed"	US- PGPUB; USPAT	OR	OFF	2019/02/20 22:58
S277	24	"Term Removed" or "Term Removed"	US- PGPUB; USPAT	OR	OFF	2019/02/20 23:00
S323	2	"Term Removed"	US- PGPUB	OR	OFF	2019/12/22 20:08
S324	2	"Term Removed"	US- PGPUB	OR	OFF	2019/12/22 20:18

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: December 5, 2019 (use as many sheets as necessary)				Application Number	16/216,724
				Filing Date	December 11, 2018
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	1	of	2	Attorney Docket Number	066749-2270

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

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

FOREIGN PATENT DOCUMENTS						
Exami ner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Country Code ³ - Number*Kind Code ⁵ (if known)				
/G.R.W/	A1	WO07121745	11-01-2007	MADSEN JENS OLE		
	A2	WO07121746	11-01-2007	MADSEN JENS OLE		
	A3	WO09140965	11-26-2009	MADSEN JENS OLE		
	A4	WO11009480	01-27-2011	RICKLEFSEN DIRK et al.		
	A5	WO13026084	02-28-2013	VAN DER LINDE et al.		
	A6	WO14125488	08-21-2014	BRUNNER YARON		
	A7	WO17212840	12-14-2017	FURUTA YOSHIHISA		
	A8	WO2007121745A1	11-01-2007	MADSEN JENS OLE		
/G.R.W/	A9	WO2017191628	11-09-2017	BRUNNER YARON		

NON PATENT LITERATURE DOCUMENTS			
Exami ner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
/G.R.W/	A10	International Search Report and Written Opinion for International Application No. PCT/US2018/033161, dated August 6, 2018, 14 pages.	
/G.R.W/	A11	International Search Report and Written Opinion for International Application No. PCT/US2019/014940, dated July 26, 2019, 7 pages.	

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	12/22/2019
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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				Filing Date	December 11, 2018
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	2	of	2	Attorney Docket Number	066749-2270

NON PATENT LITERATURE DOCUMENTS			
Exami ner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A12	International Search Report and Written Opinion for International Application No. PCT/IL2019/050689, dated August 23, 2019, 21 pages.	
	A13	STUART, "Sys-Cart Base, a Systainer Mounting Platform," TOOLGUYD, July 28, 2014, https://toolguyd.com/systainer-sys-cart-mounting-base/ , 11 pages.	
	A14	"BluCave Universal Storage System," BATAVIA Tools to Build, https://batavia.eu/blucave-storage-system/ , believed to be available at least as early as November 29, 2017, 5 pages.	
	A15	"Dewalt TSTAK Carrier Trolley," ITS, https://www.its.co.uk/pd/171229-Dewalt-TSTAK-Carrier-Trolley-DEW171229.htm , Per Wayback, website dates back to May 2, 2015, 2 pages.	
	A16	"Tool Skool, TSTAK Phase 2 Upgrades TSTAK Carts – First Look – Tool Skool," YouTube, September 7, 2013, https://www.youtube.com/watch?v=jb06y6J1dr4&feature=youtu.be&t=197 , 1 page.	
	A17	"DeWalt TSTAK Vac Rack (Suits DW DWV902M & DWV900L) DWV9500-XJ," Get Tools Direct, https://www.gettoolsdirect.com.au/dewalt-tstak-vac-rack-suits-dwv902m-and-dwv900l-dwv9500-xj.html , believed to be available at least as early as November 29, 2017, 4 pages.	
	A18	STUART, "Ryobi ToolBlox Tool Cabinet System!", TOOLGUYD, September 18, 2014, https://toolguyd.com/ryobi-toolblox-cabinets/ , 23 pages.	
	A19	"Blitz Box – Portable Storage Box / Shelf," The Green Head Finds Cool New Stuff, https://www.thegreenhead.com/2013/03/blitz-box-portable-storage-box-shelf.php , Per Wayback, website dates back to February 15, 2015, 5 pages.	
	A20	"Hopkins FloTool 91002 Rhino Box with Mount," Amazon.com, https://www.amazon.com/exec/obidos/ASIN/B003K15F3I/20140000-20 , believed to be available at least as early as November 29, 2017, 7 pages.	
	A21	Sortimo Logistix, "Mobile Sortimente", brochure, believed to be available at least as early as November 29, 2017, 17 pages.	
	A22	BluCave Video, https://www.youtube.com/watch?v=Sw7fQQPwoOtY&feature=youtu.be&t=32 , believed to be available at least as early as November 29, 2017.	
	A23	Batavia GmbH, BluCave Storage System, https://protect-us.mimecast.com/s/5XIGCR6KypcgJnIKi9FDoim?domain=batavia.eu , believed to be available at least as early as November 29, 2017, 7 pages.	
	A24	VERTAK, https://www.alibaba.com/product-detail/Vertak-global-patented-multi-function-portable-60217794260.html , believed to be available at least as early as November 29, 2017.	

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

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

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

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

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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)							
Application Number	16/216,724	Filing Date	2018-12-11	Docket Number (if applicable)	066749-2270	Art Unit	3736
First Named Inventor	Yaron Brunner			Examiner Name	WEINERTH, GIDEON R		
This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV							
SUBMISSION REQUIRED UNDER 37 CFR 1.114							
Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).							
☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____ ☐ Other _____							
☒ Enclosed ☐ Amendment/Reply ☒ Information Disclosure Statement (IDS) ☐ Affidavit(s)/ Declaration(s) ☐ Other _____							
MISCELLANEOUS							
☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)							
☐ Other _____							
FEES							
☒ The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No <u>180882</u>							
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED							
☒ Patent Practitioner Signature ☐ Applicant Signature							

Doc code: RCEX

Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)

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

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

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Signature of Registered U.S. Patent Practitioner			
Signature	/Derek H. Campbell/	Date (YYYY-MM-DD)	2020-01-14
Name	Derek H. Campbell	Registration Number	70608

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

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

Privacy Act Statement

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

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation
Title: Utility Assembly and Coupling Mechanism
Appl. No.: 16/216,724
Filing Date: December 11, 2018
Examiner: WEINERTH, GIDEON R
Art Unit: 3736
Confirmation Number: 1402

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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

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

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR § 1.97 and §1.98.

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

TIMING OF THE DISCLOSURE

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

RELEVANCE OF EACH DOCUMENT

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

References A4-A16 were previously identified in the subject application and were submitted in the parent application, although it appears they were not considered in the subject application. The Applicant is re-identifying these references and submitting them out of an abundance of caution to confirm they are properly considered and of record in the subject application.

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

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

Respectfully submitted,

Date January 14, 2020

By /Derek H. Campbell/

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

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

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: January 14, 2020 <i>(use as many sheets as necessary)</i>				Application Number	16/216,724
				Filing Date	December 11, 2018
				First Named Inventor	Yaron Brunner
				Art Unit	3736
				Examiner Name	WEINERTH, GIDEON R
Sheet	1	of	2	Attorney Docket Number	066749-2270

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	2019/0225371	07-25-2019	Hoppe et al.	

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

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
	A2	EM000705231-0001	04-12-2007	Terry Store-Age S.P.A.		
	A3	EM002419283-0001	03-06-2014	Keter Plastic Ltd.		
	A4	JP 1276744	07-18-2006	Hirofumi Kishimoto		
	A5	JP 1477050	08-19-2013	Ryosuke Omachi		
	A6	KR 30-0271616	02-09-2000	Joong Chui Ahm		
	A7	KR 30-0320243	06-10-2002	Joung Gu Kang		
	A8	TW 135074	06-01-2010	Yi Hua Wu		
	A9	TW 168686	07-01-2015	Kang Delun Business Co., Ltd.		
	A10	TW 174412	03-21-2016	Lee Hsin Chang		
	A11	DE 202015105053	10-31-2016	AUER PACKAGING GMBH		
	A12	DE 202015005752	11-21-2016	PLASTON AG		
	A13	CN 2608238	03-31-2004	BAO JIANGANG		
	A14	WO 2016142935	09-15-2016	BRUNNER, Yaron et al.		
	A15	WO 2017028845	02-23-2017	ROTHENBERGER AG		

Examiner Signature		Date Considered	
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Sheet	2	of	2	Attorney Docket Number	066749-2270

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A16	Non-Final Rejection issued April 12, 2018, in United States Application No. 15/826,201. (16 Pages) (Docket No. J699501JS01 446373-419).	

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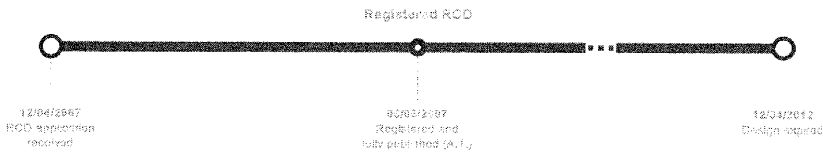


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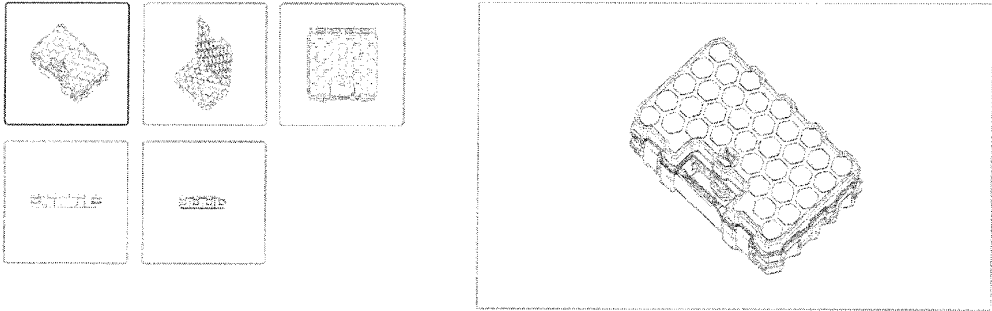
RCD file information

000705231-0001

Timeline



Graphic representation



Design information

Design number	000705231-0001	Filing language	ITALIAN
Name		Second language	ENGLISH
Filing date	12/04/2007	Reference	O.13537
Registration date	12/04/2007	Vienna Classification	
Expiry date	12/04/2012	Verbal element	
Design status	Design lapsed		

Indication of the product, (RcdClass)

Locarno	03.01	English
Values	Suitcases	

Owners

TERRY STORE-AGE S.P.A.

ID	79885	Country	IT - Italy	Correspondence address	
Organisation	TERRY STORE-AGE S.P.A.	State/country	n/a	TERRY STORE-AGE S.P.A.	Hidden. You can set your contact details to be publicly available via the User Area.
	We use cookies on our website to support technical features that enhance your user experience. We also use analytics.		Town	Milano	
Legal status	Legal entity	Post code	20147	120147 Milano x	

Address
**Via
Rembrandt,
27**

Hidden. You can set your
contact details to be publicly
available via the User Area.

Hidden. You can set your
contact details to be publicly
available via the User Area.

Representatives

UFFICIO BREVETTI RAPISARDI S.R.L.

ID	15058	Country	IT - Italy	Correspondence address	
Organisation	n/a	State/country	n/a	UFFICIO BREVETTI RAPISARDI S.R.L.	Hidden. You can set your contact details to be publicly available via the User Area.
Legal status	Legal person	Town	Milano	Via Serbelloni, 12	
Type	Association	Post code	20122	I-20122 Milano	
		Address	Via Serbelloni, 12	ITALIA	Hidden. You can set your contact details to be publicly available via the User Area.
					Hidden. You can set your contact details to be publicly available via the User Area.

Designers

No data

Exhibition priority

No data

Priority

No data

Publications

Bulletin number	Date	Section	Description
2007/083	05/06/2007	A.1	Applications published under Articles 48 and 50 CDR
2013/024	04/02/2013	C.2	Expired registrations
Showing 1 to 2 of 2 entries			

Recordals

No data

Appeals

No data

Decisions

No data

Renewals

No data

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