

1/24

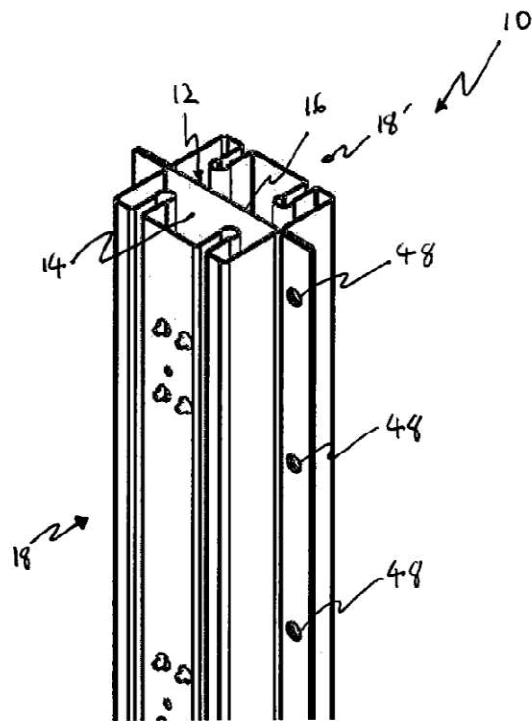


Fig. 1

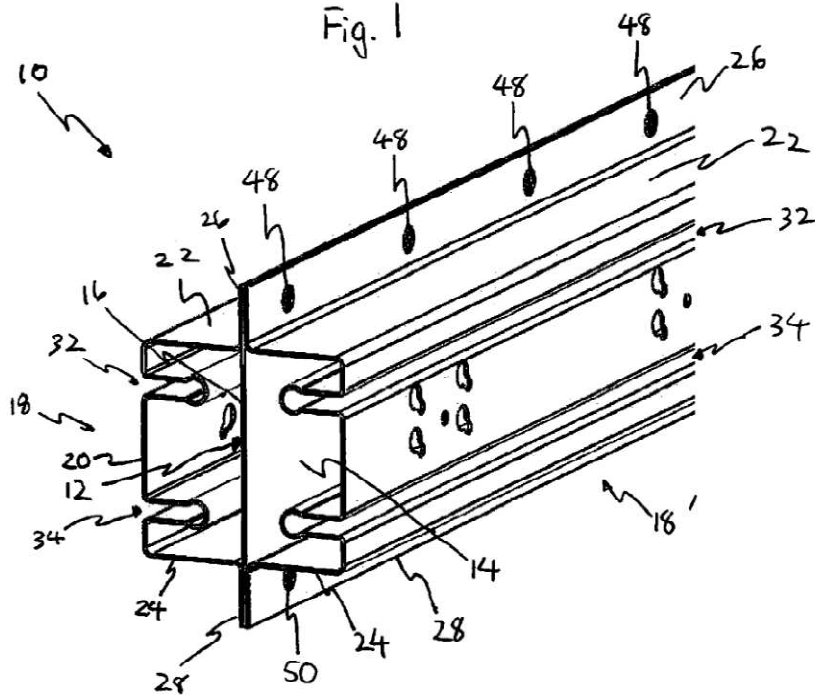


Fig. 2

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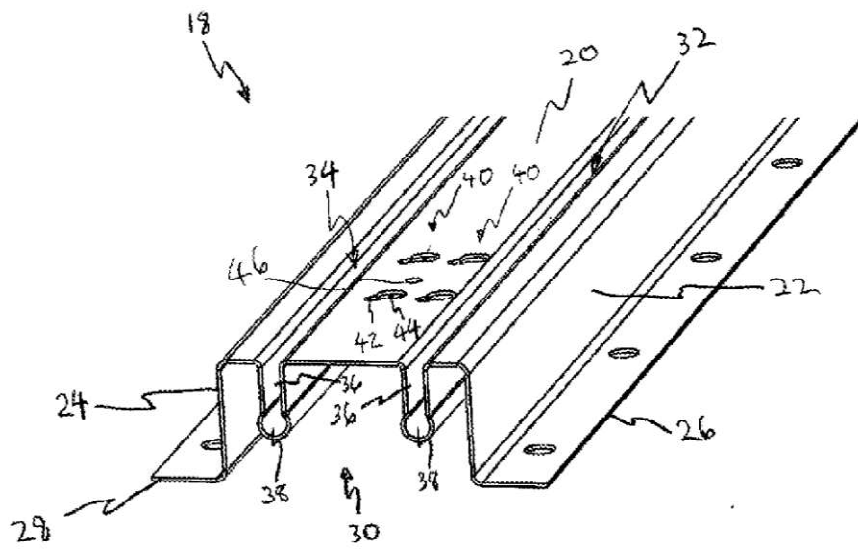


Fig. 3

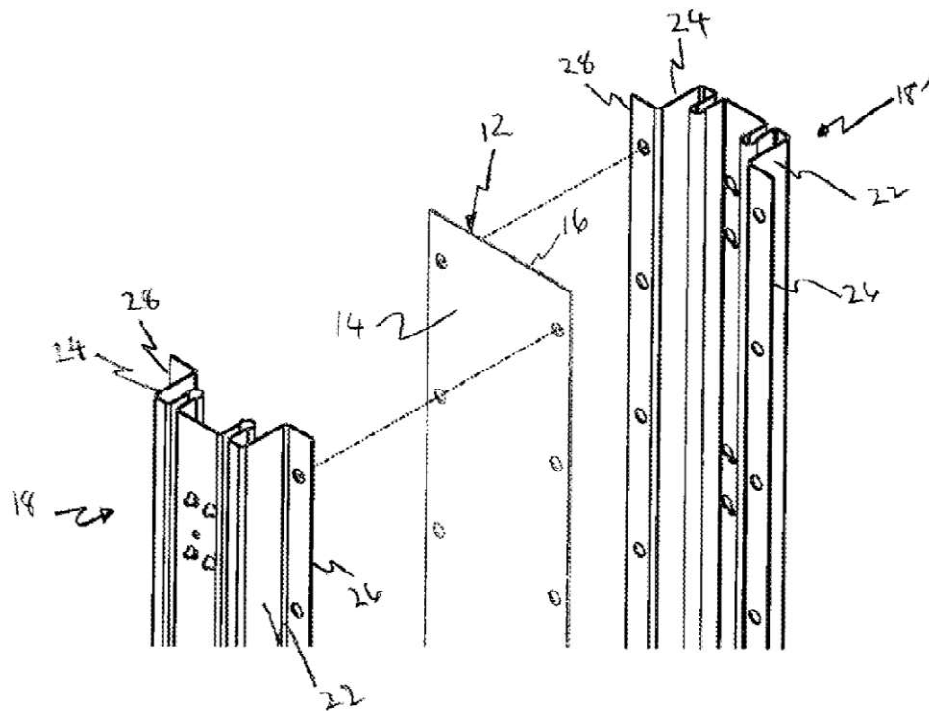


Fig. 4

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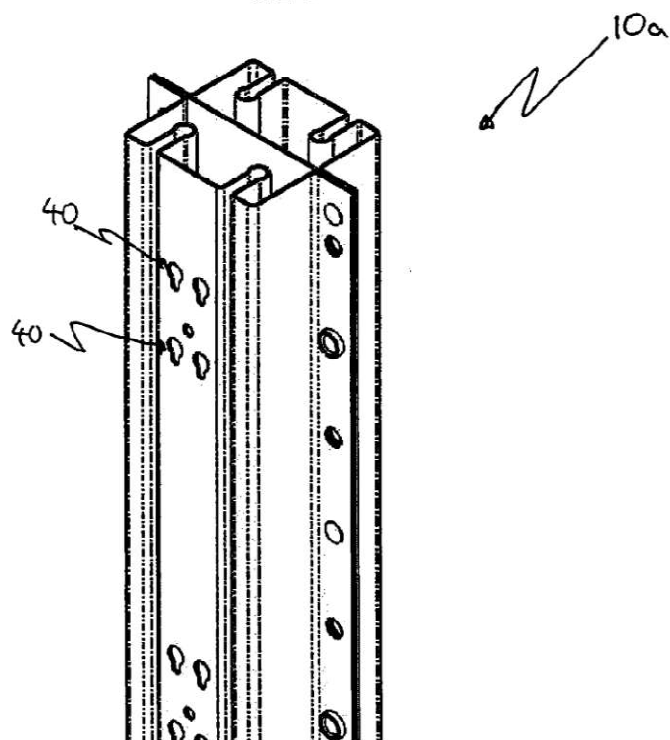


Fig. 4.1

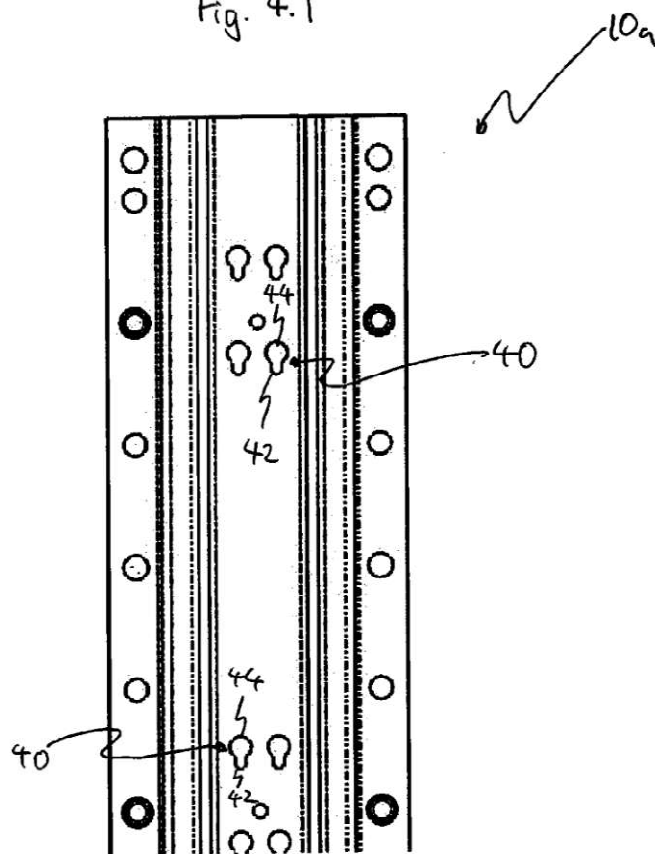
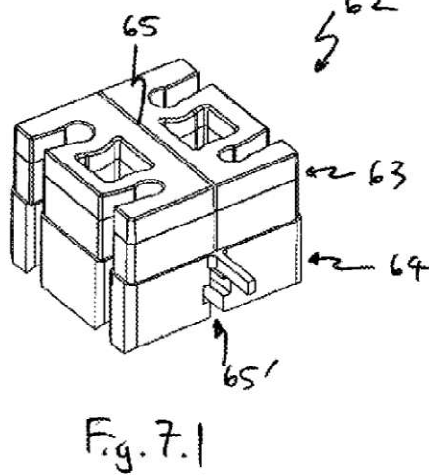
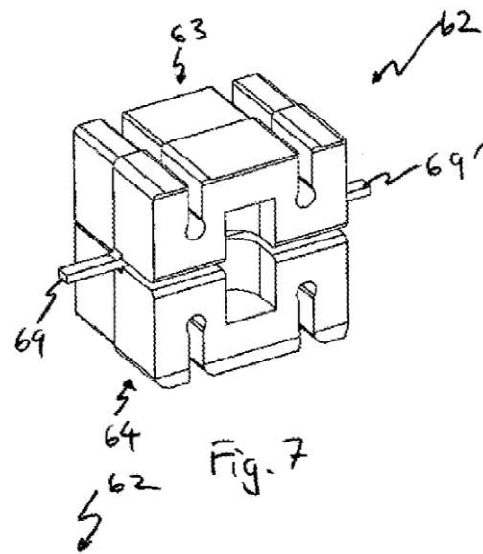
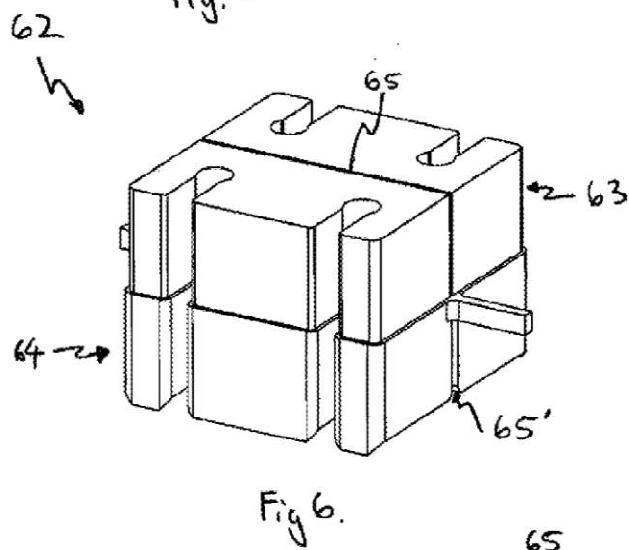
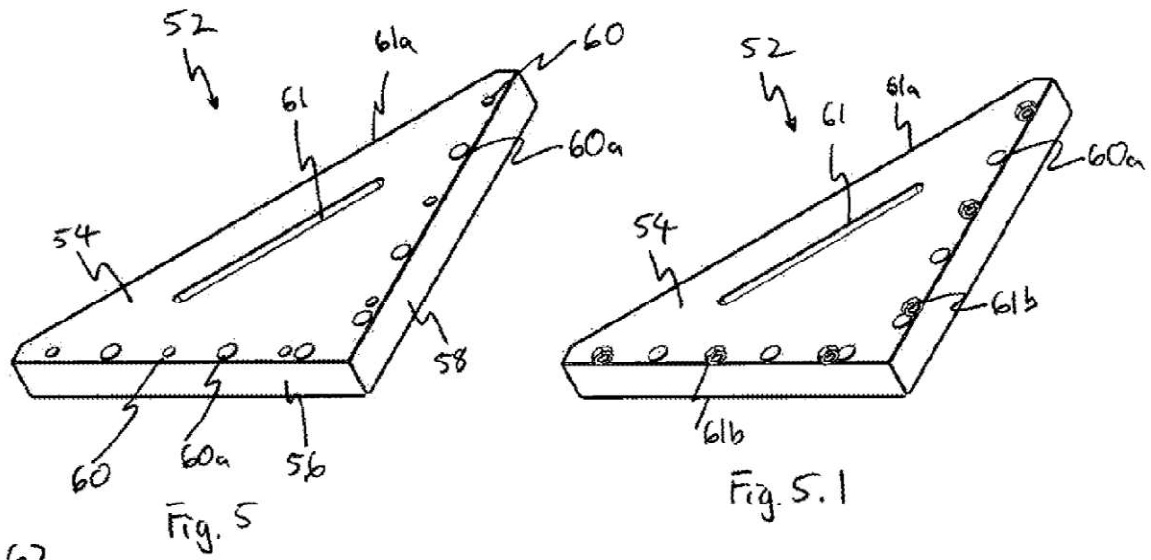


Fig. 4.2

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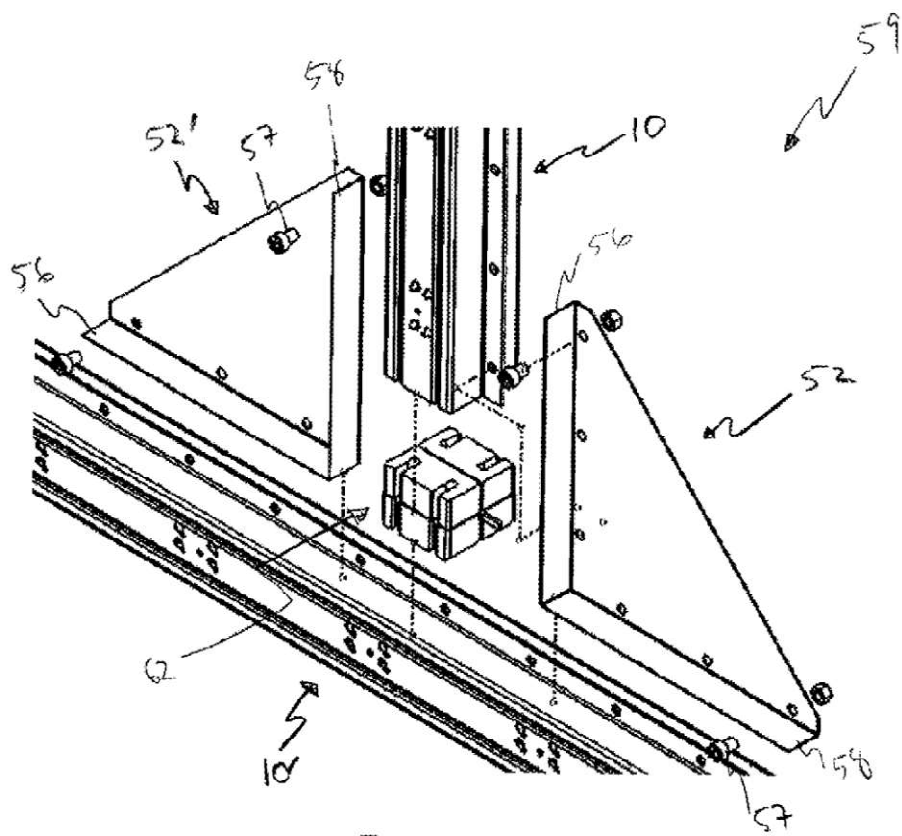


Fig. 8

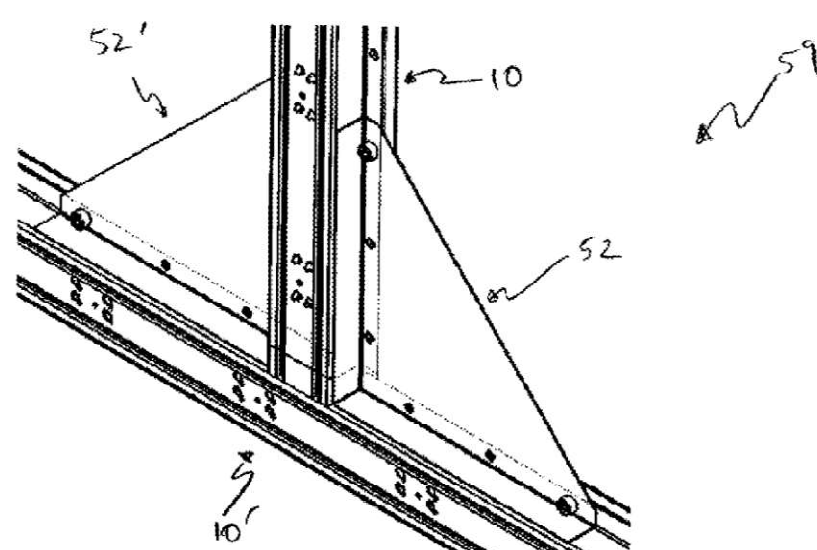
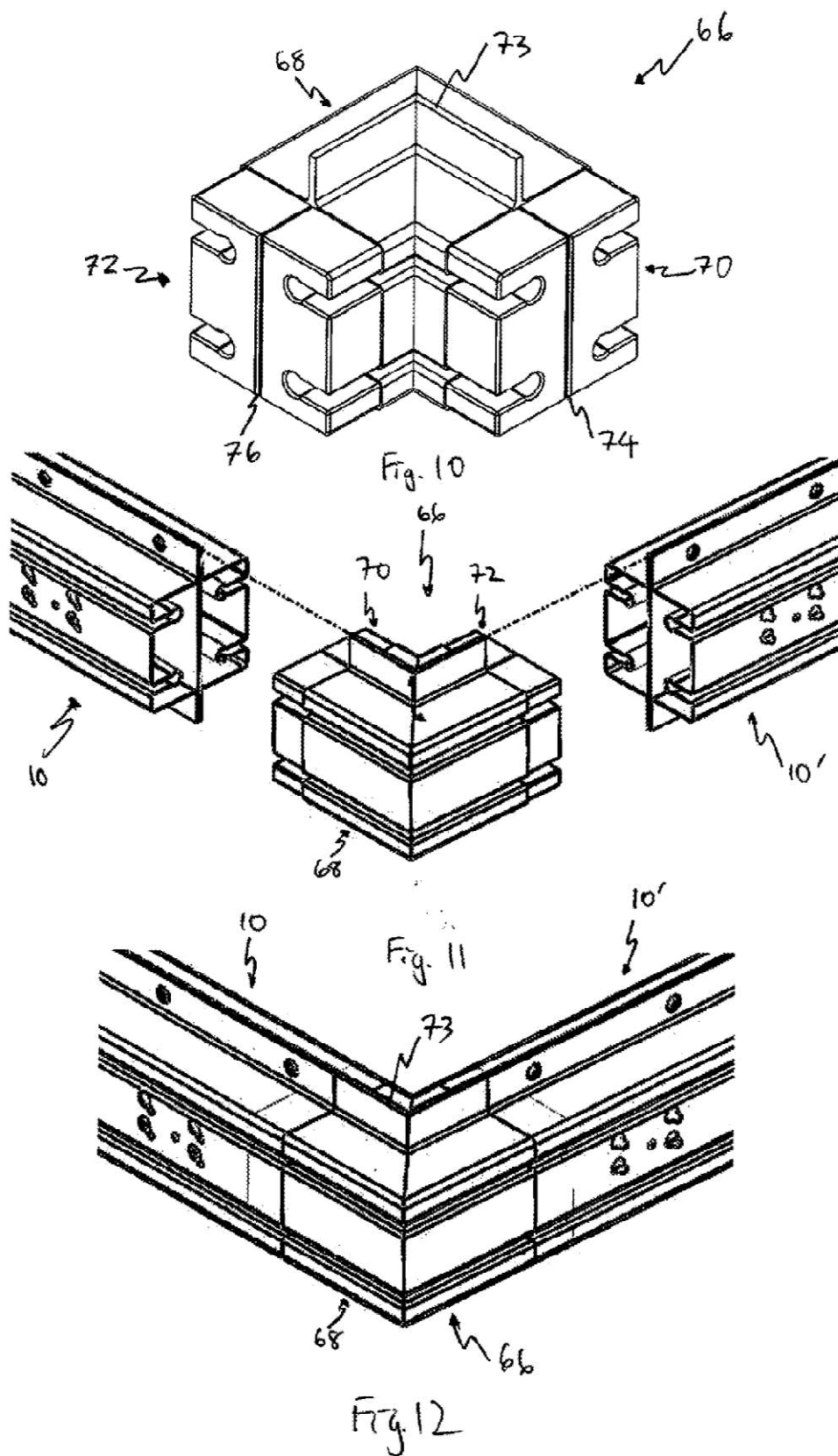
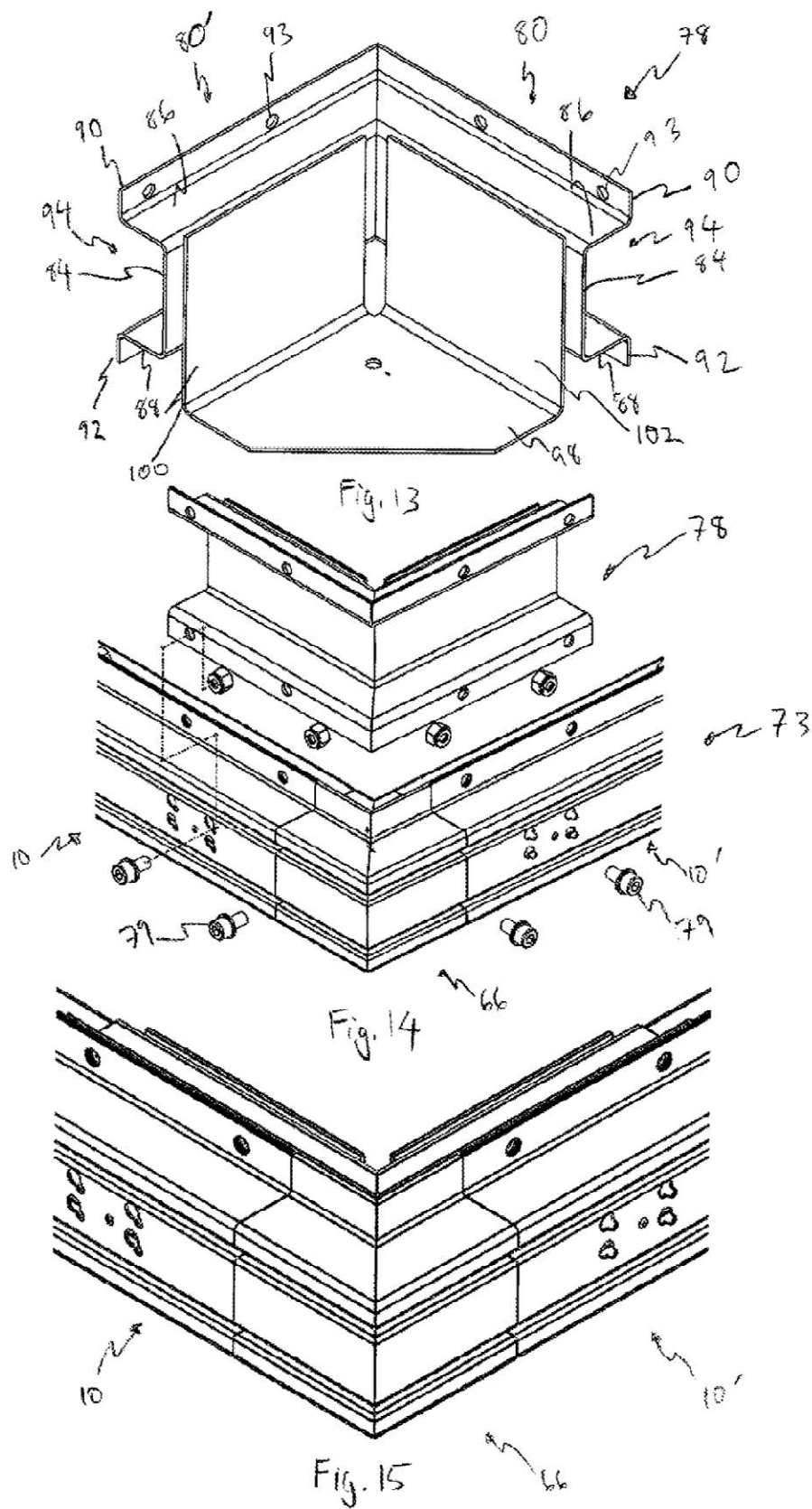


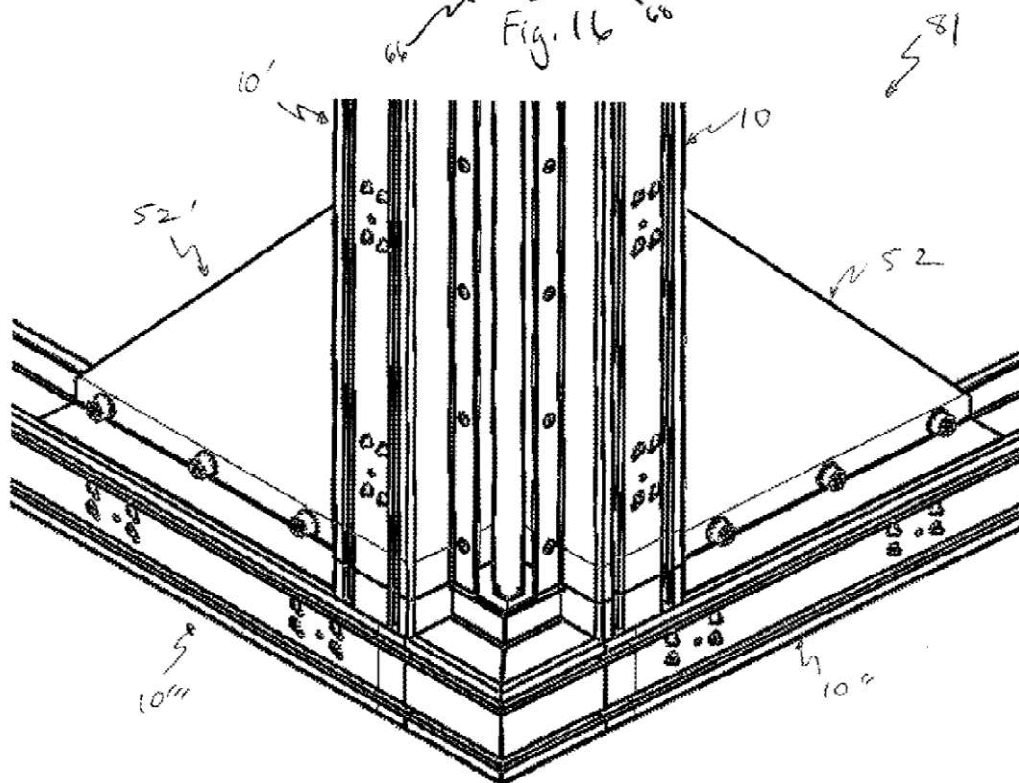
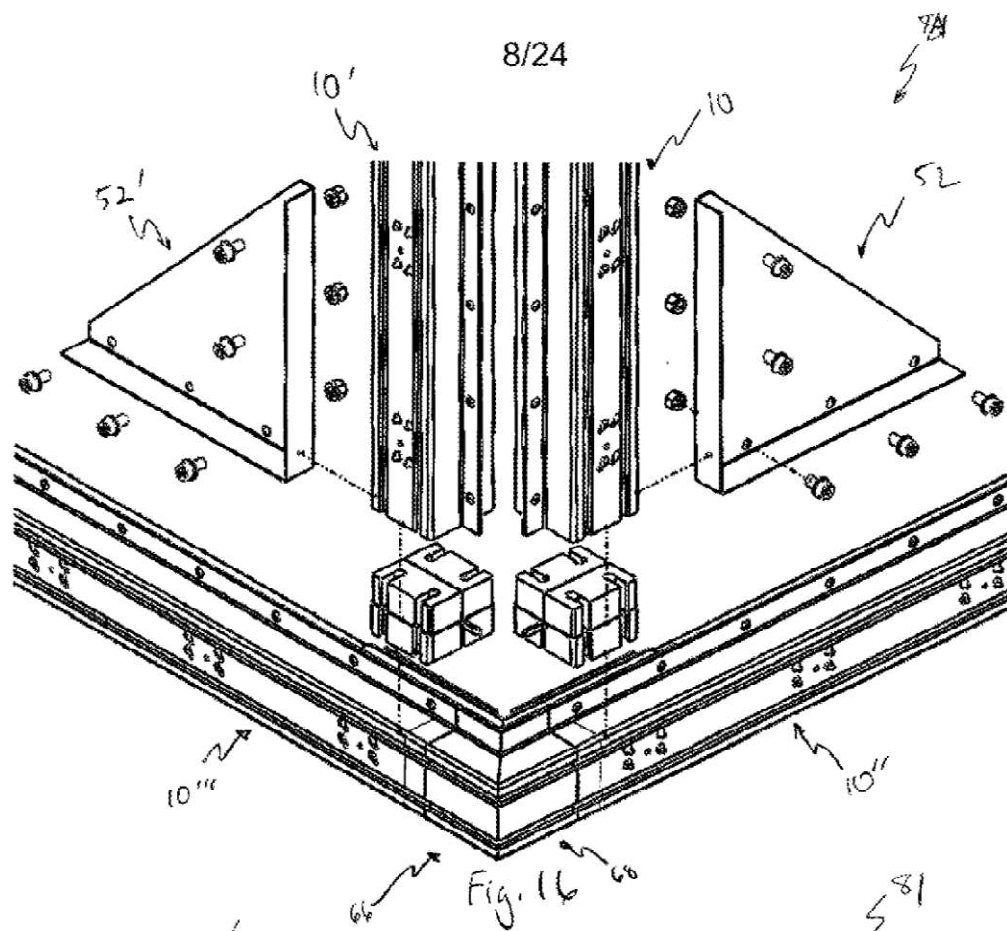
Fig. 9

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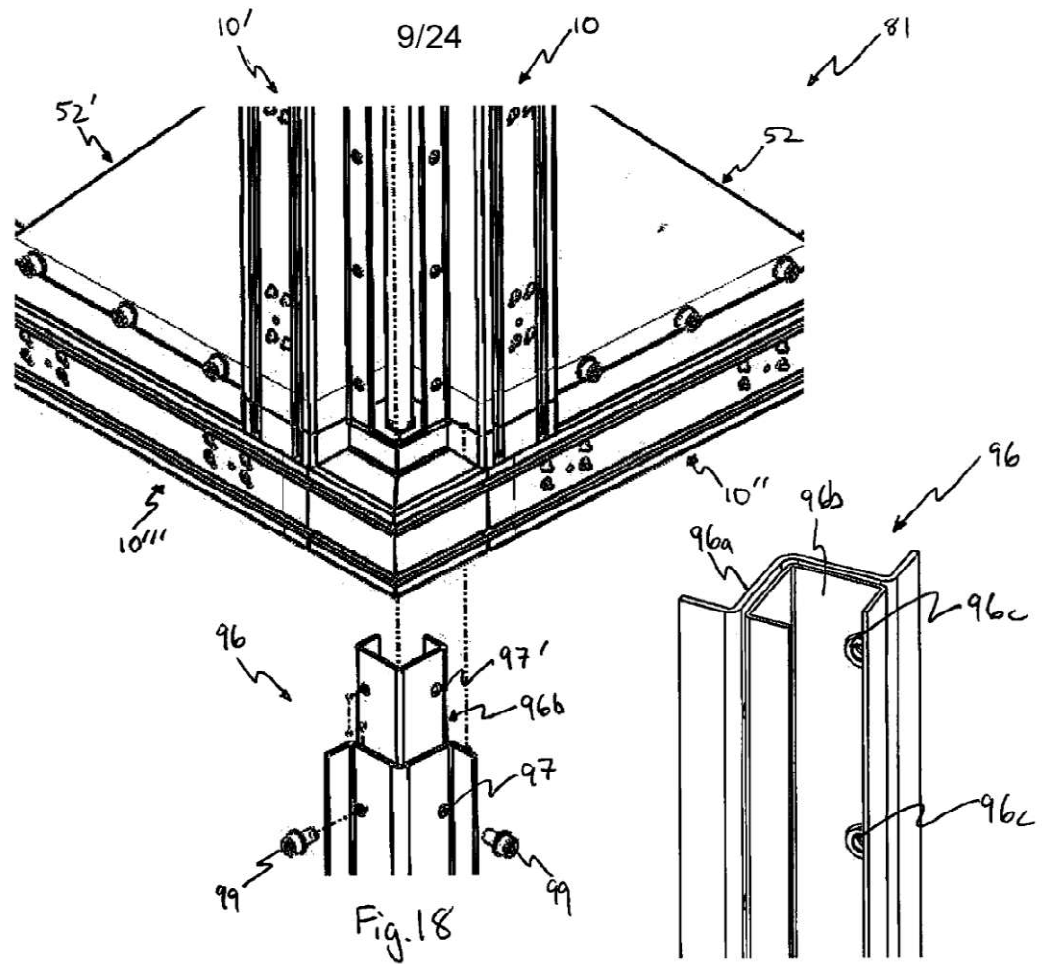


Fig. 18

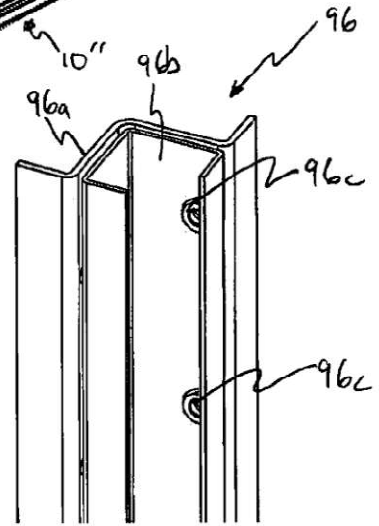


Fig. 18.1

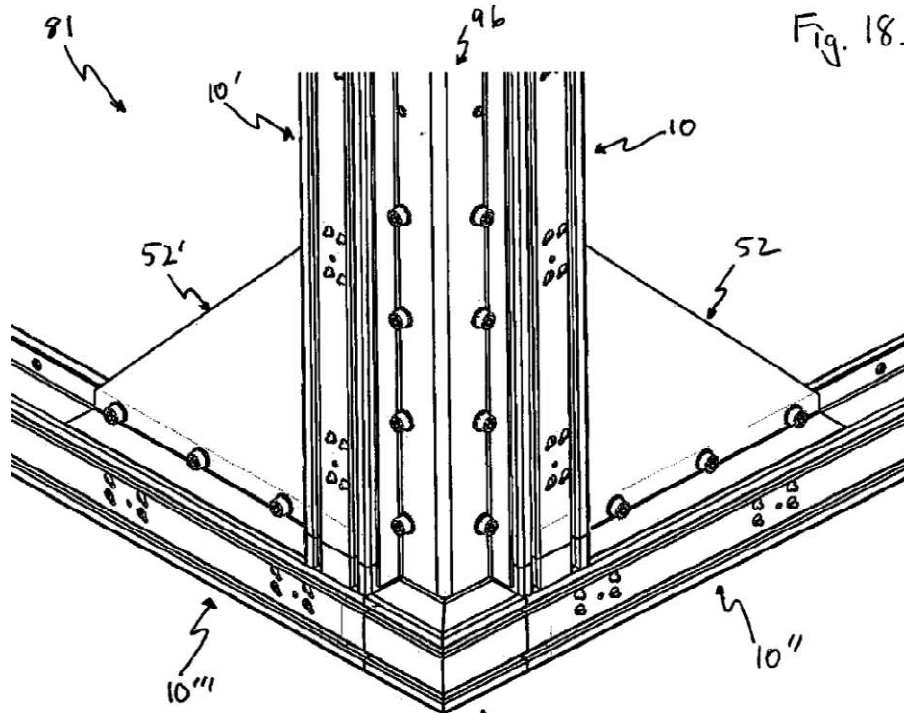
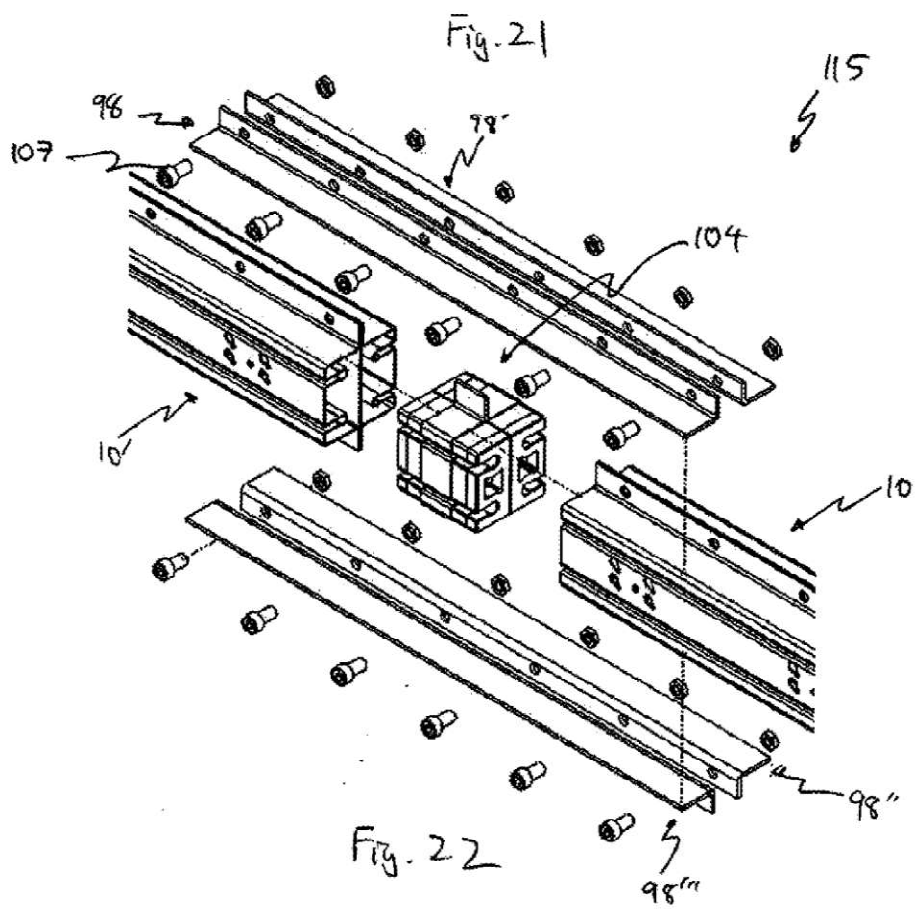
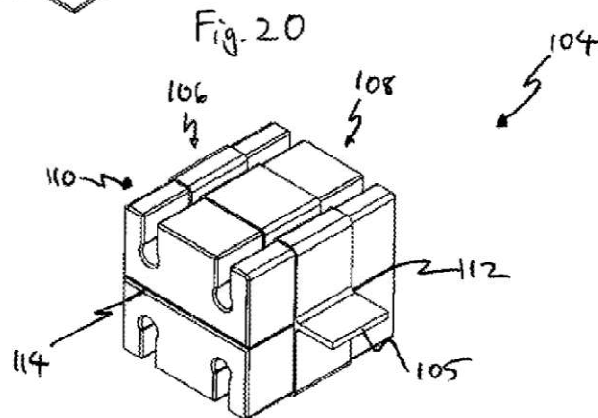
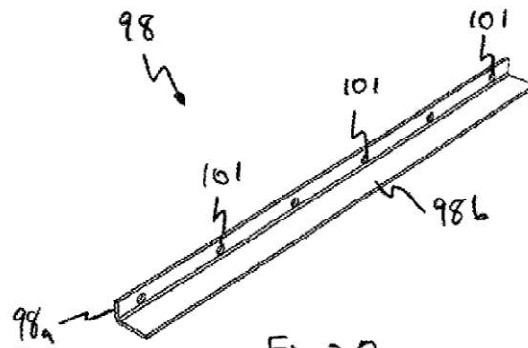
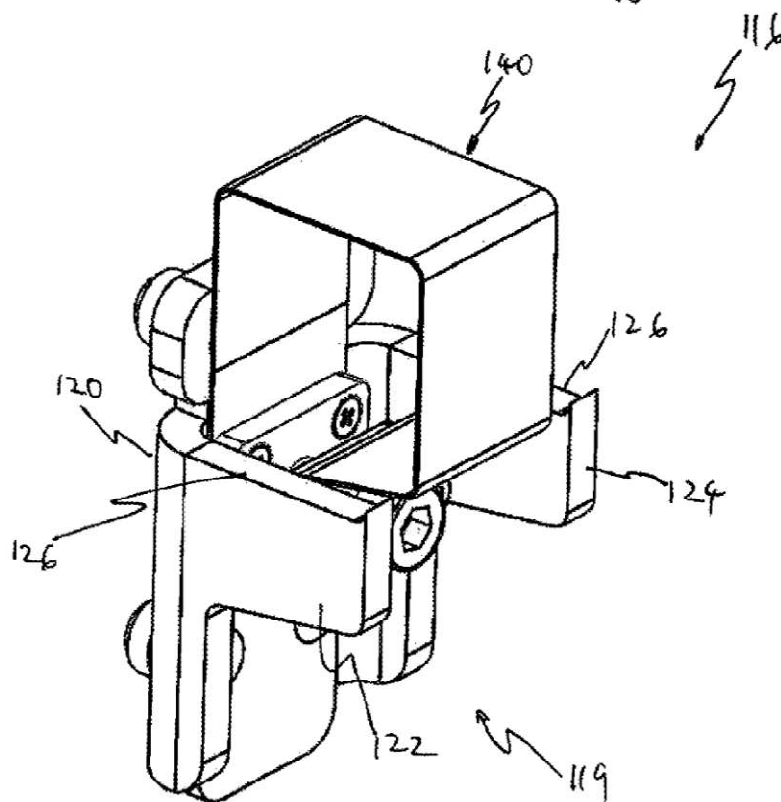
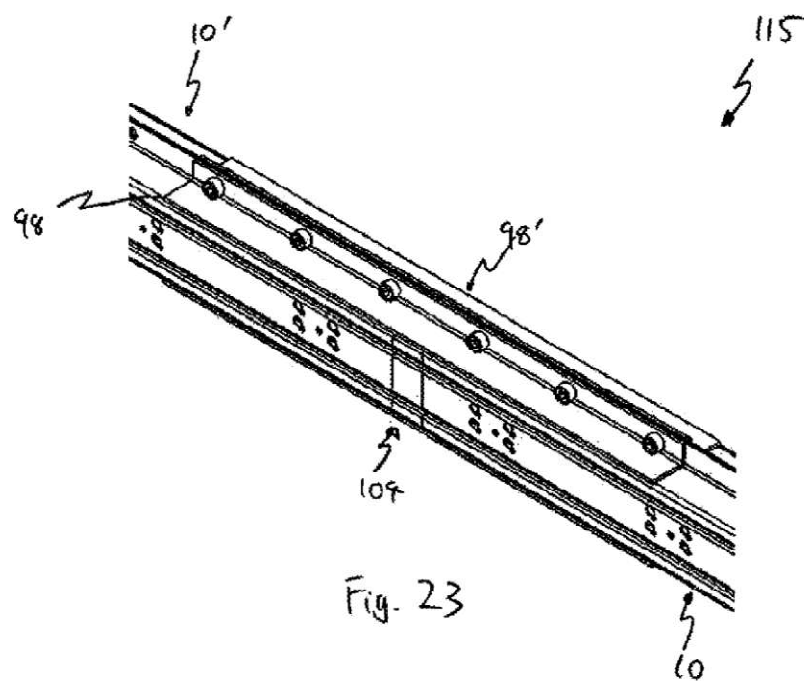


Fig. 19 166

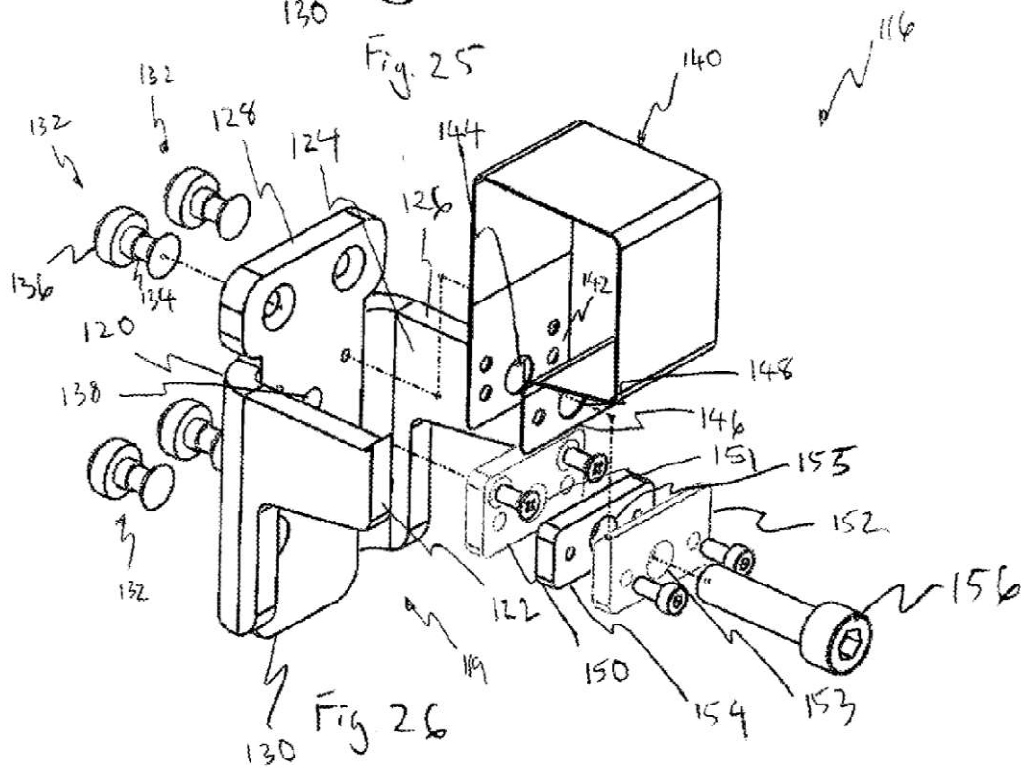
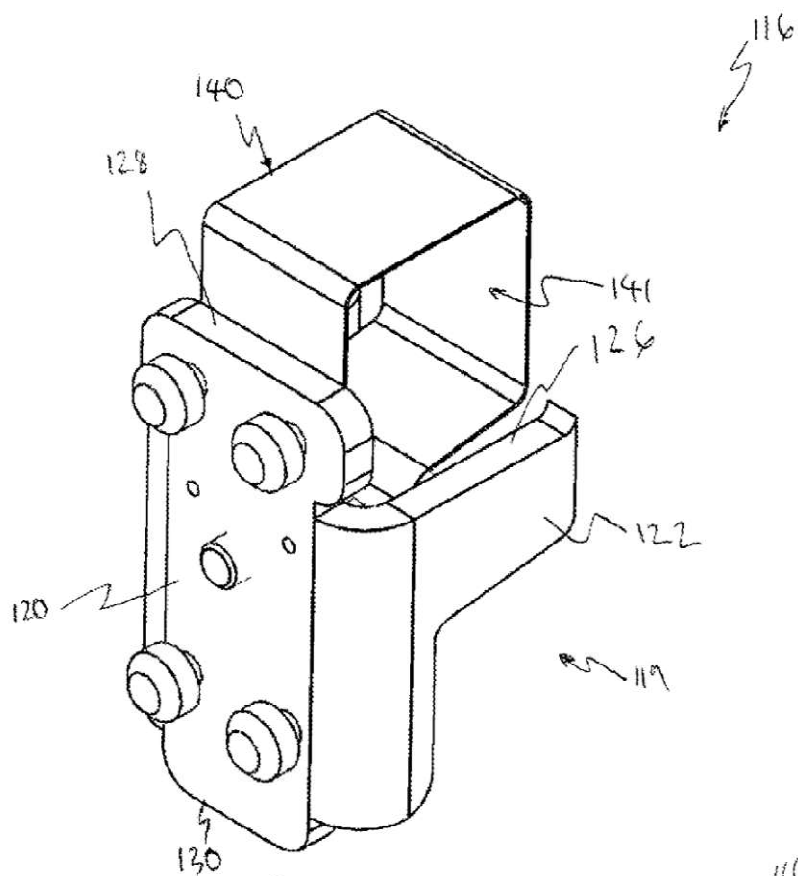
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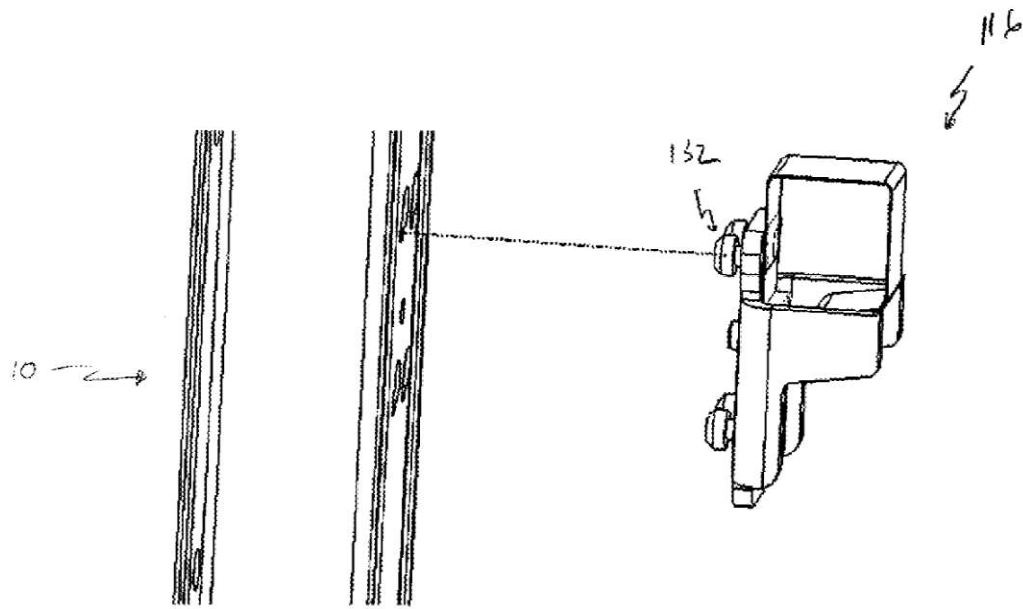


Fig. 27

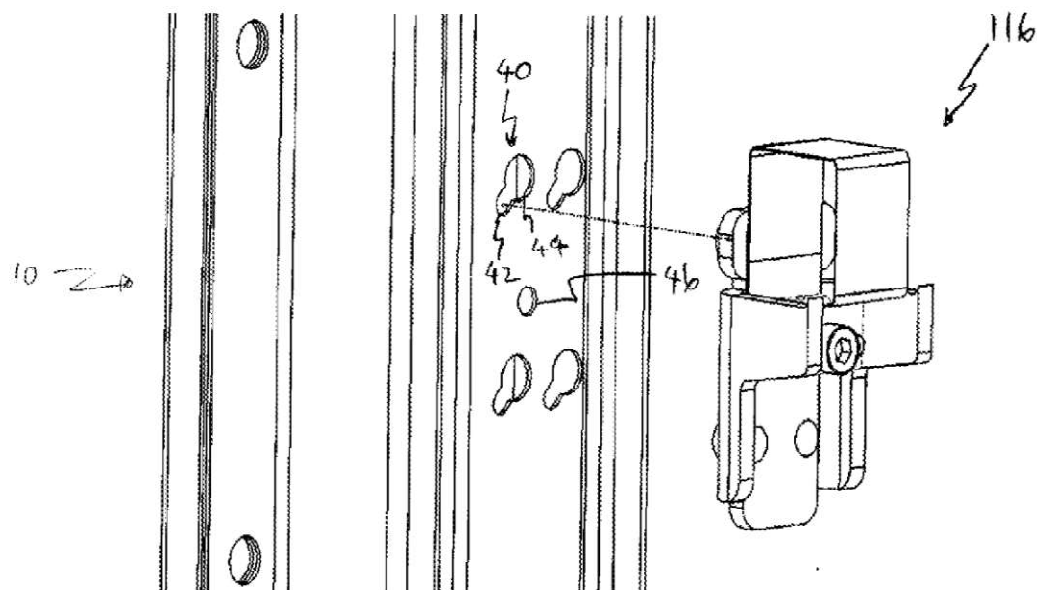


Fig. 28

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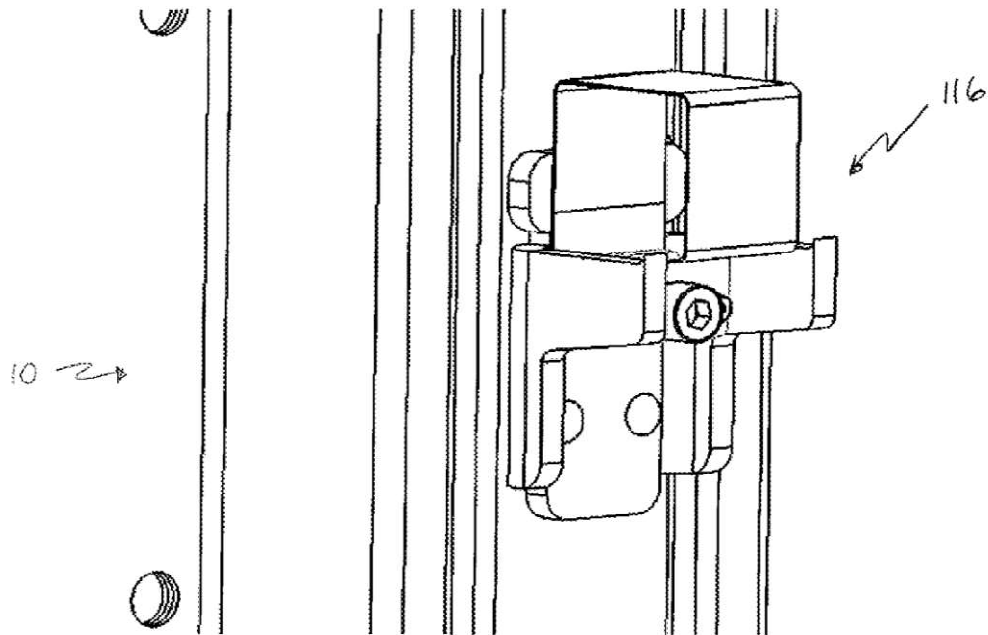


Fig. 29

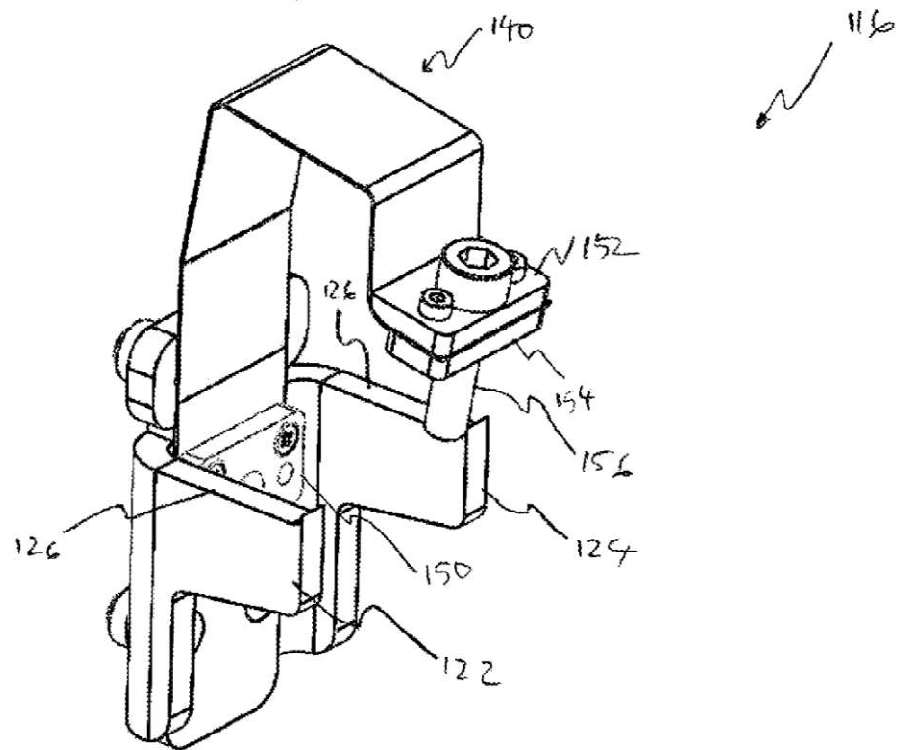
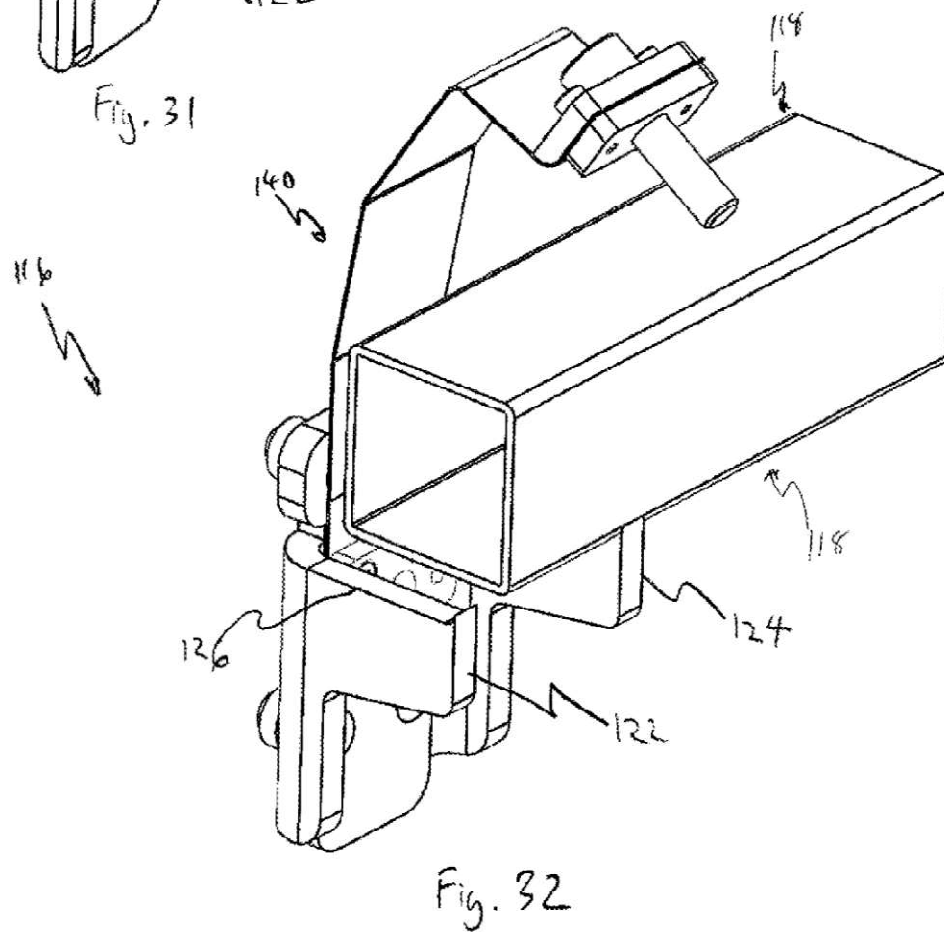
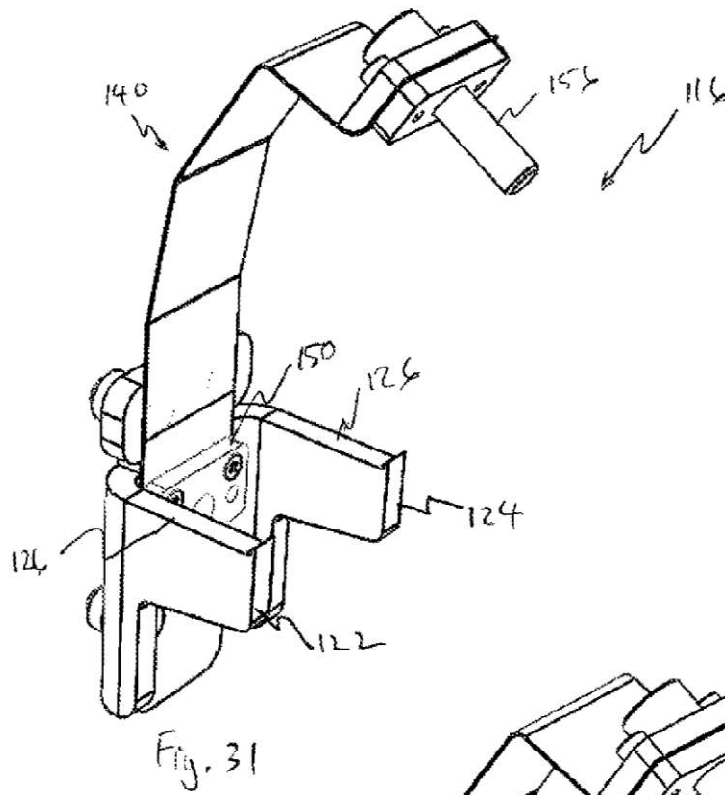
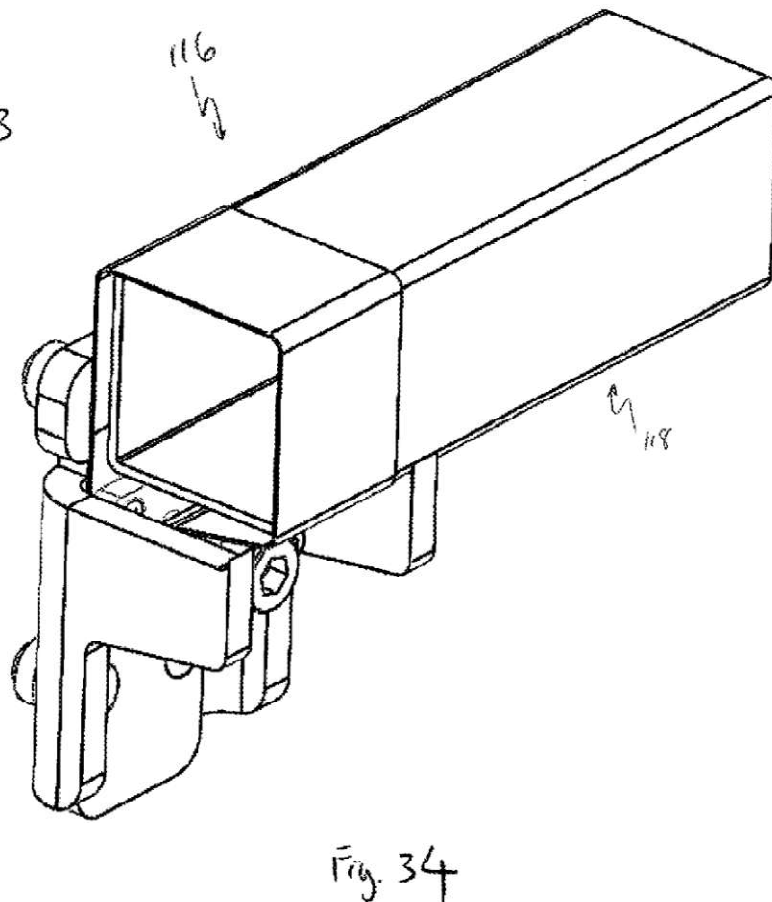
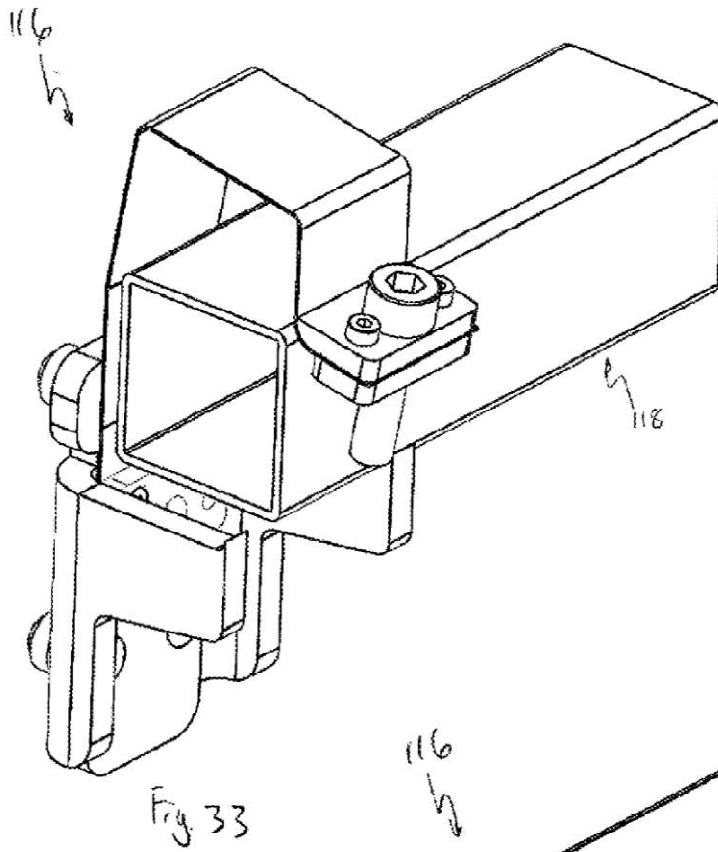


Fig. 30

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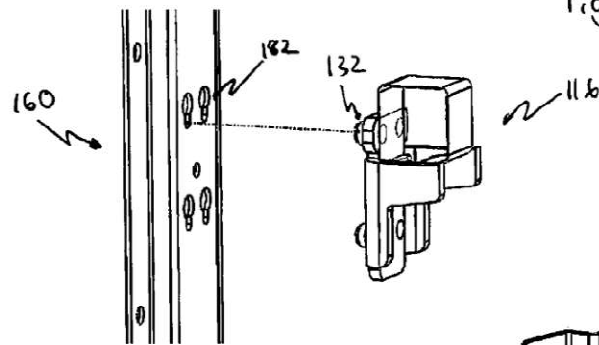
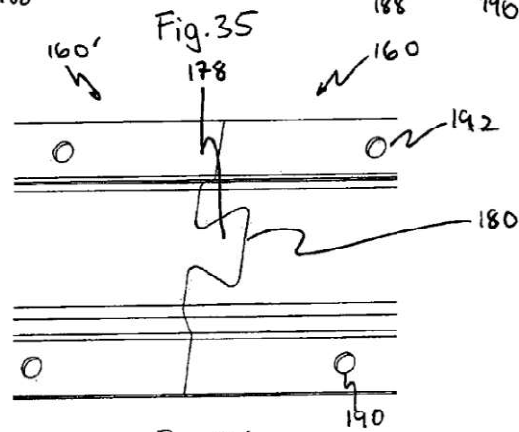
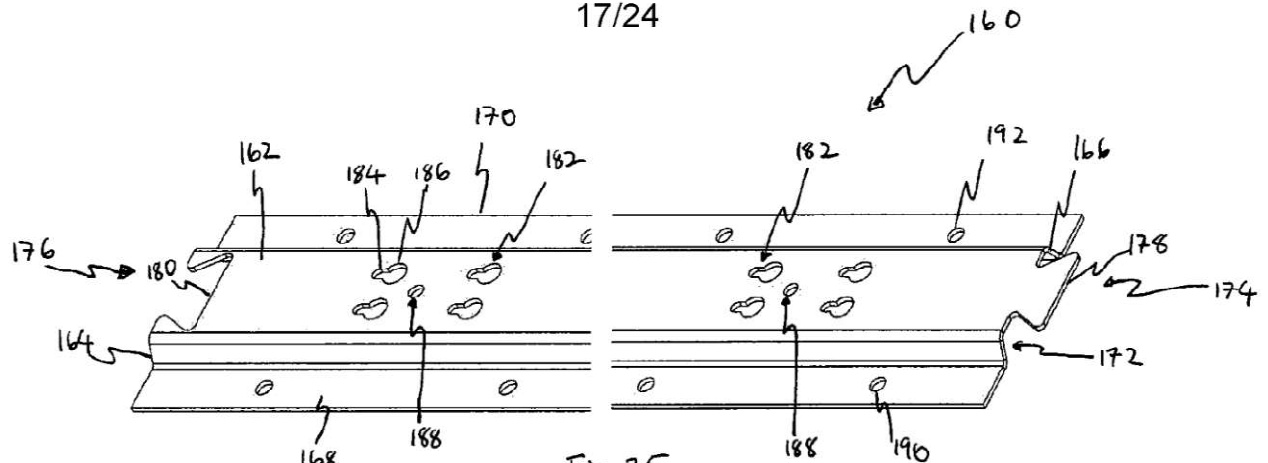


Fig. 37

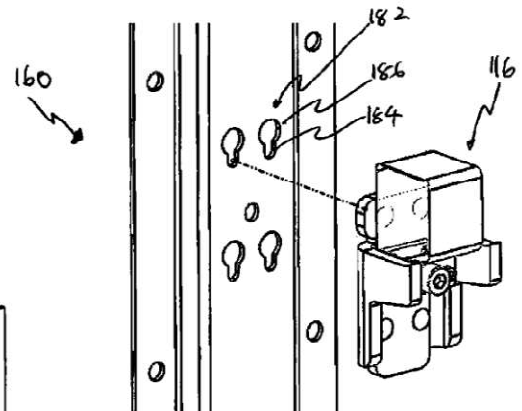


Fig. 38

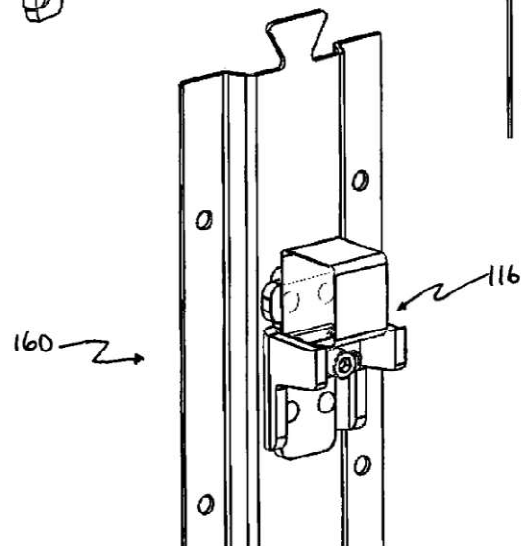


Fig. 39

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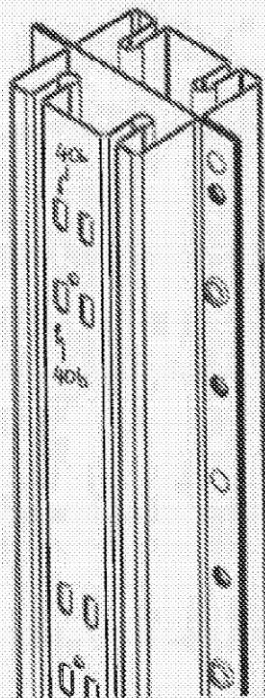


Fig. 40

10b

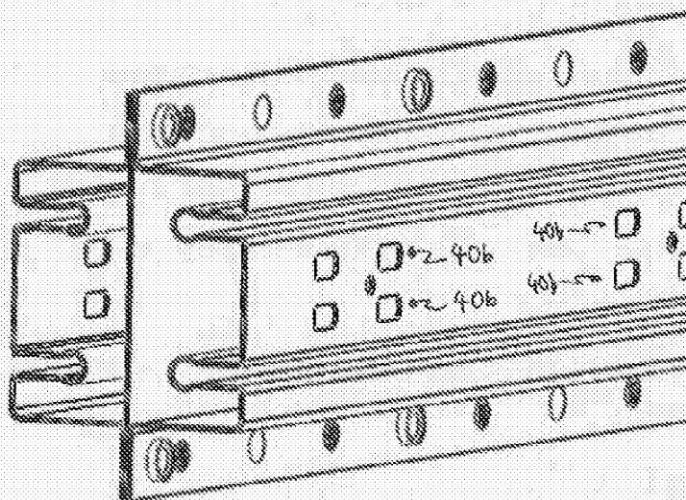


Fig. 41

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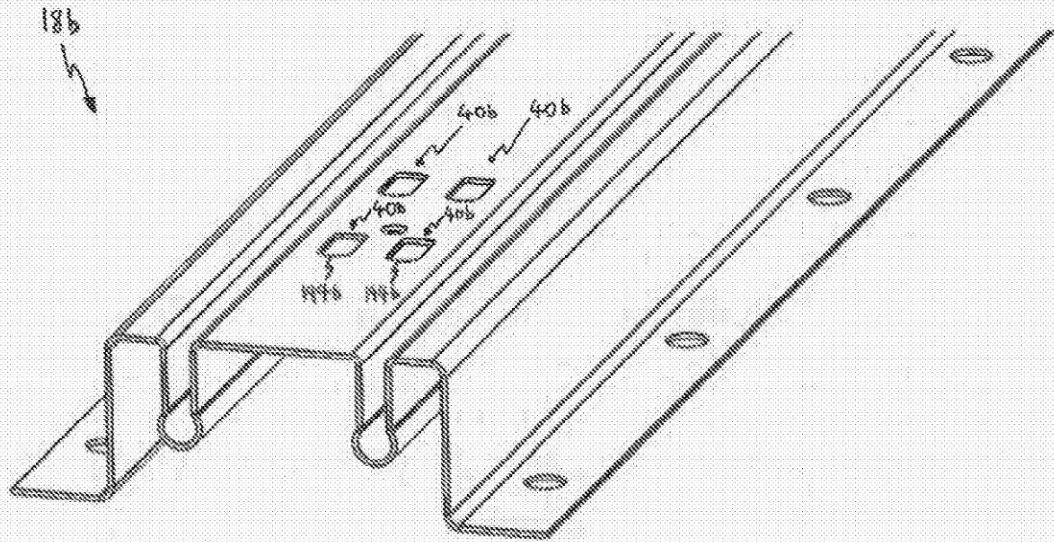


Fig. 42

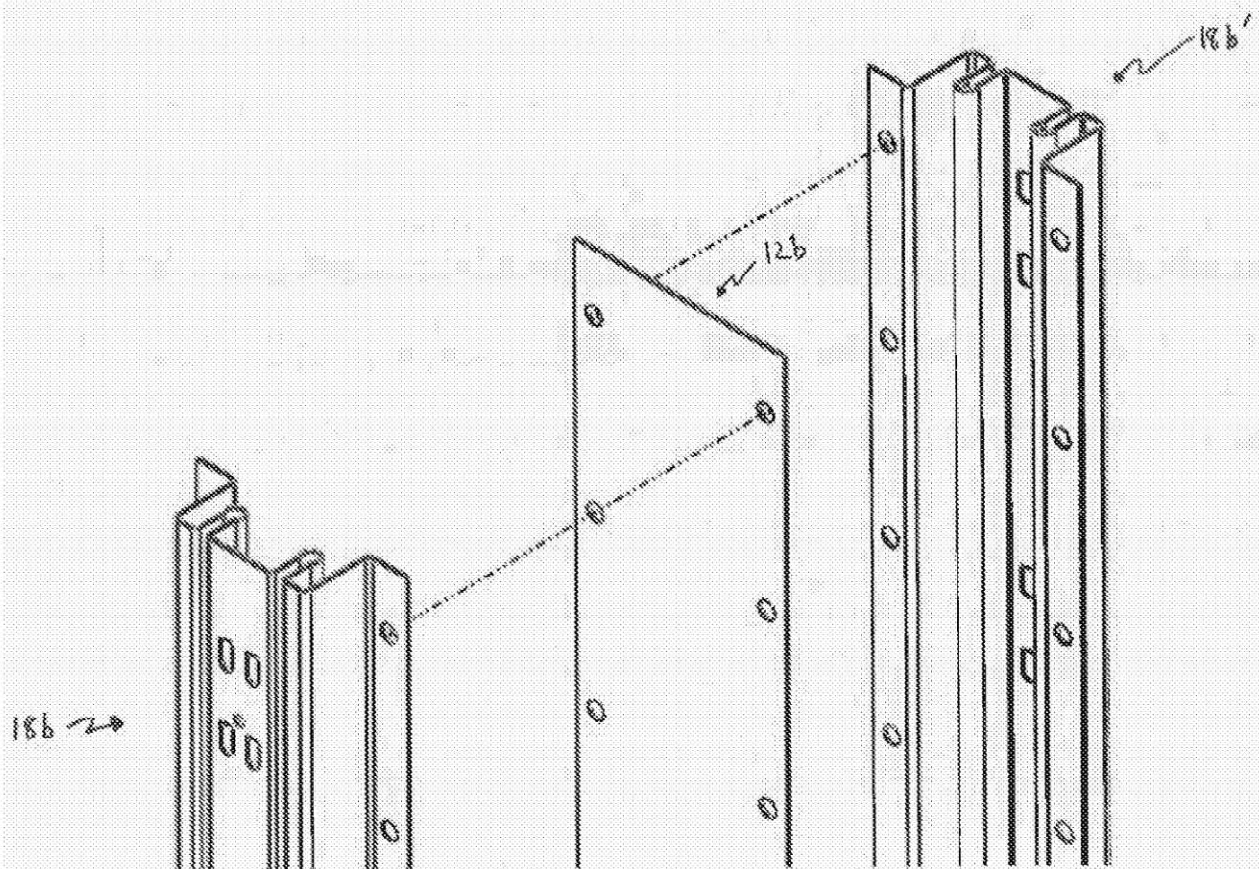


Fig. 43

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10b
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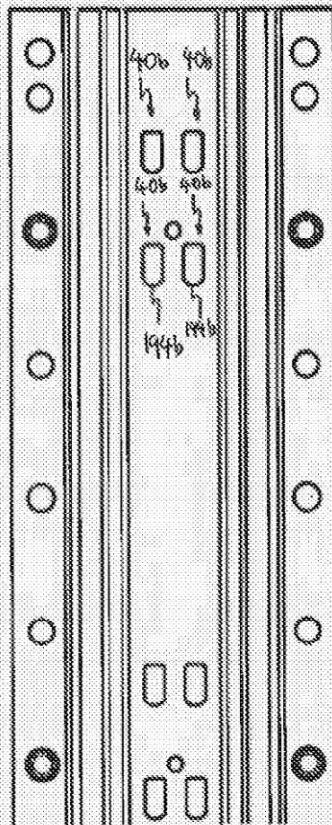
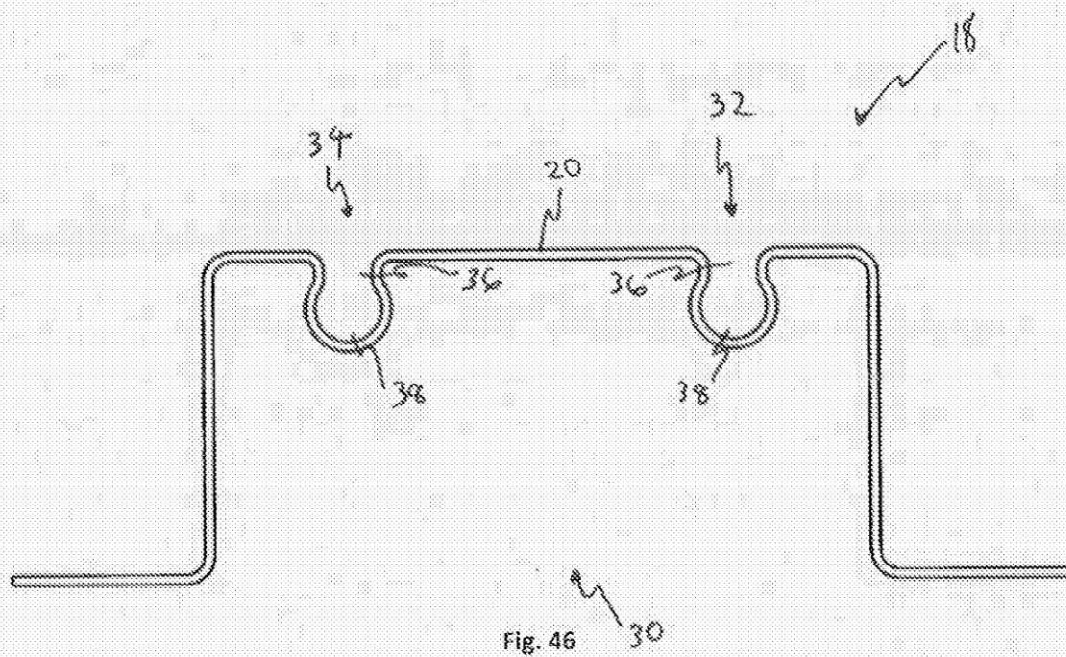
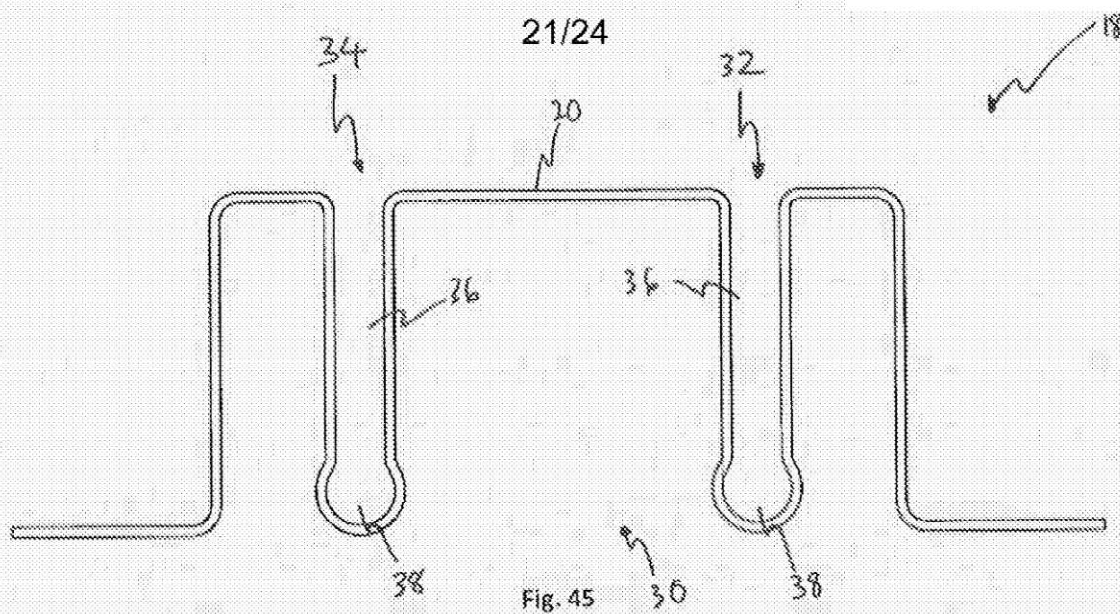


Fig. 44



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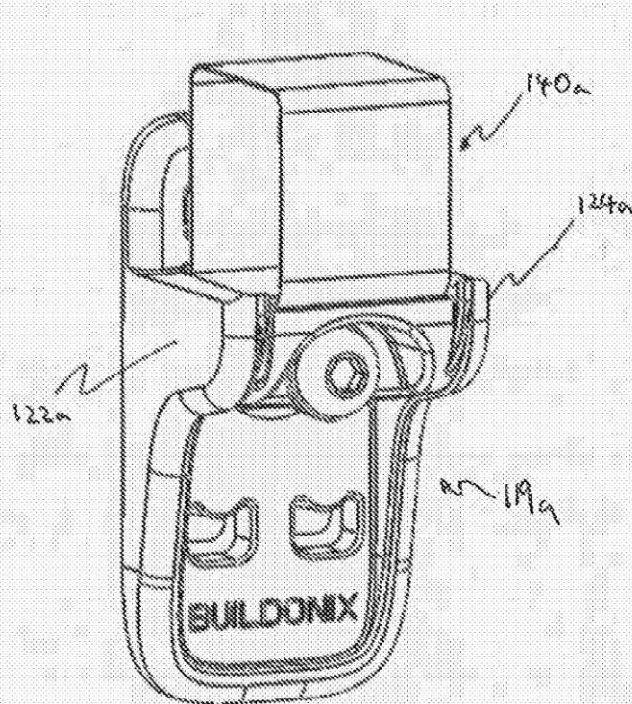


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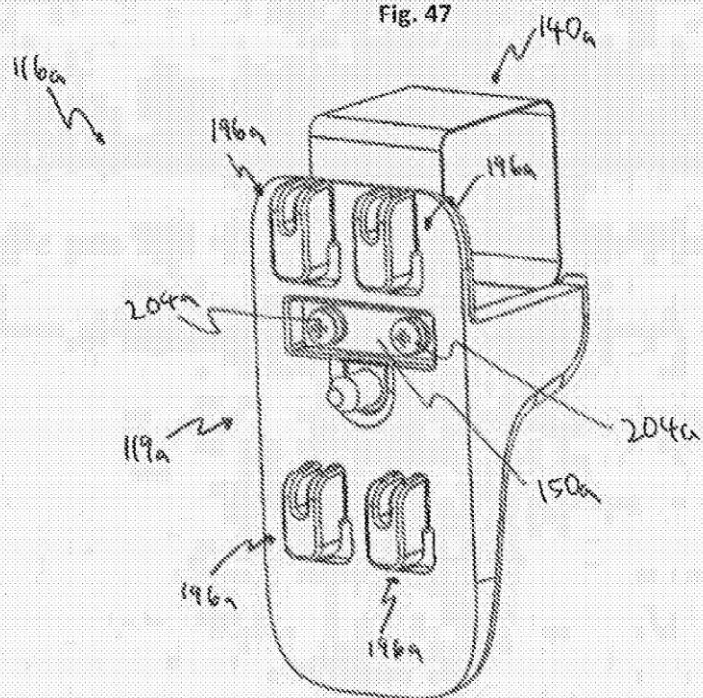


Fig. 48

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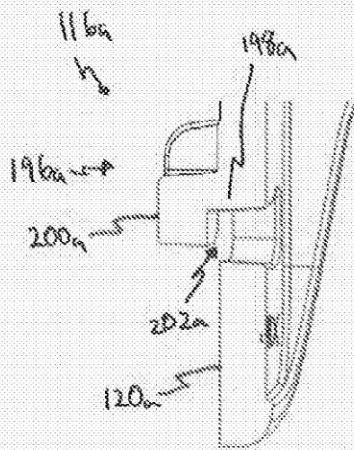


Fig. 49

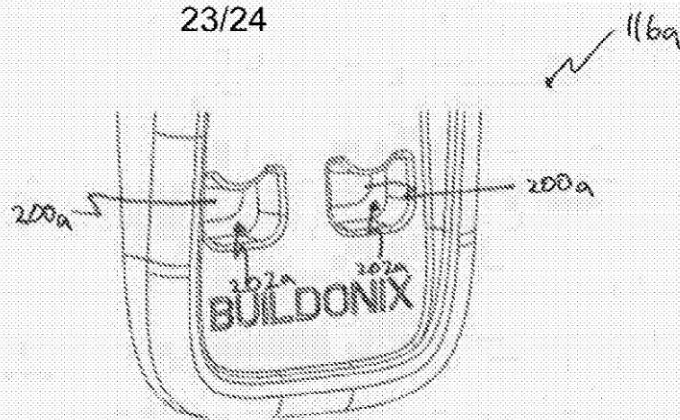


Fig. 50

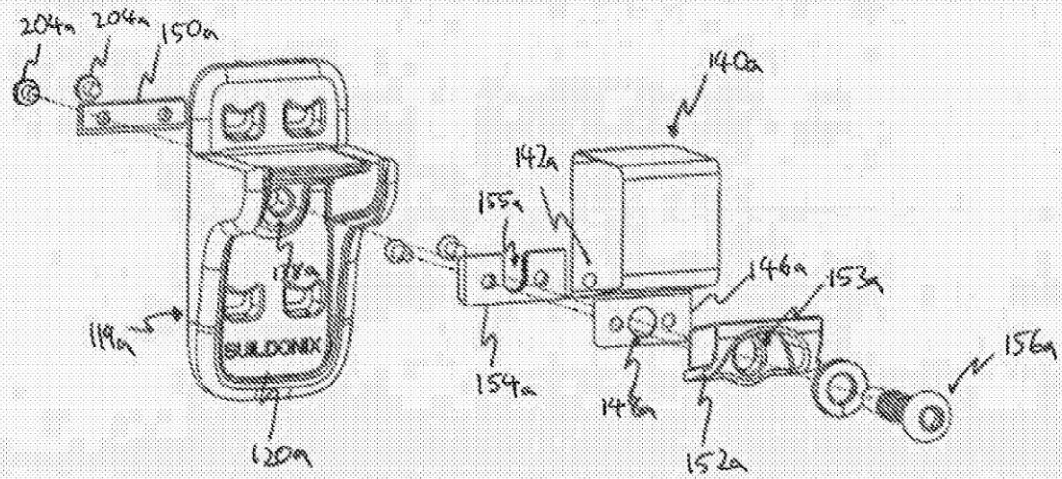


Fig. 51

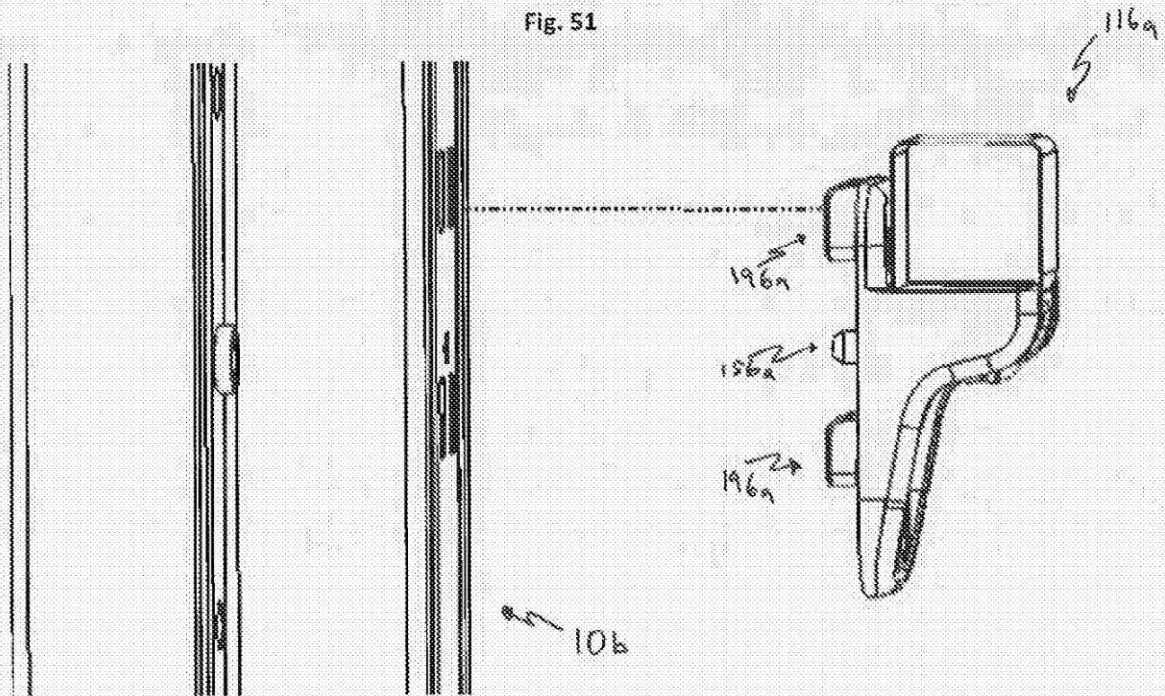


Fig. 52

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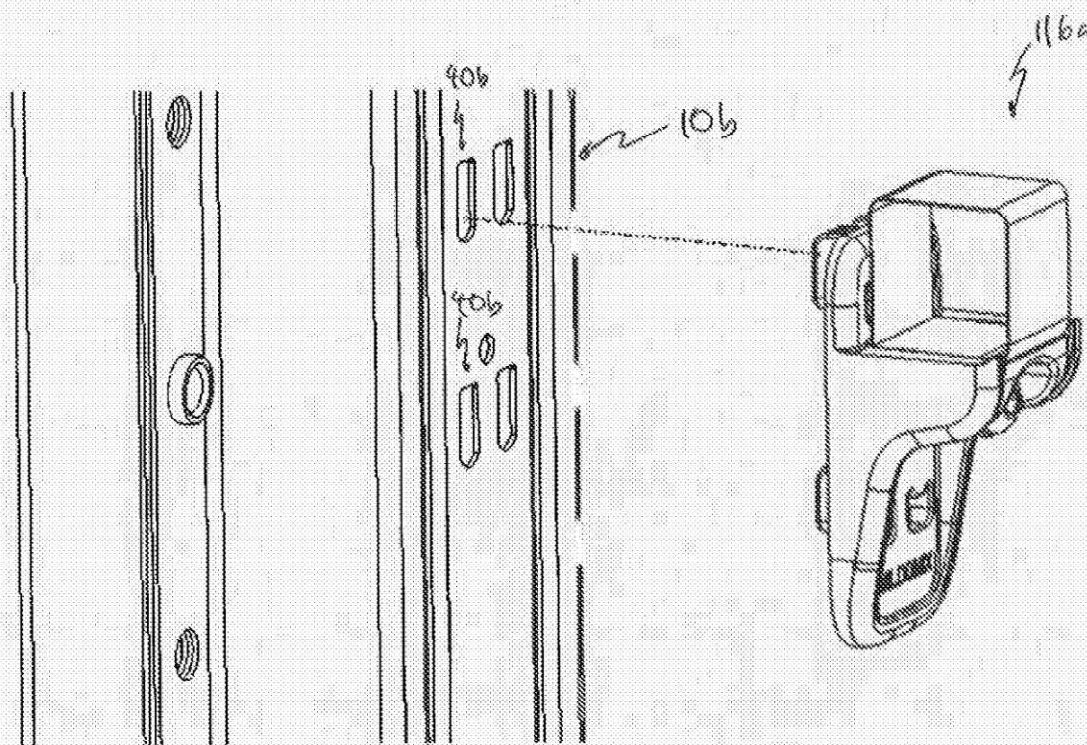


Fig. 53

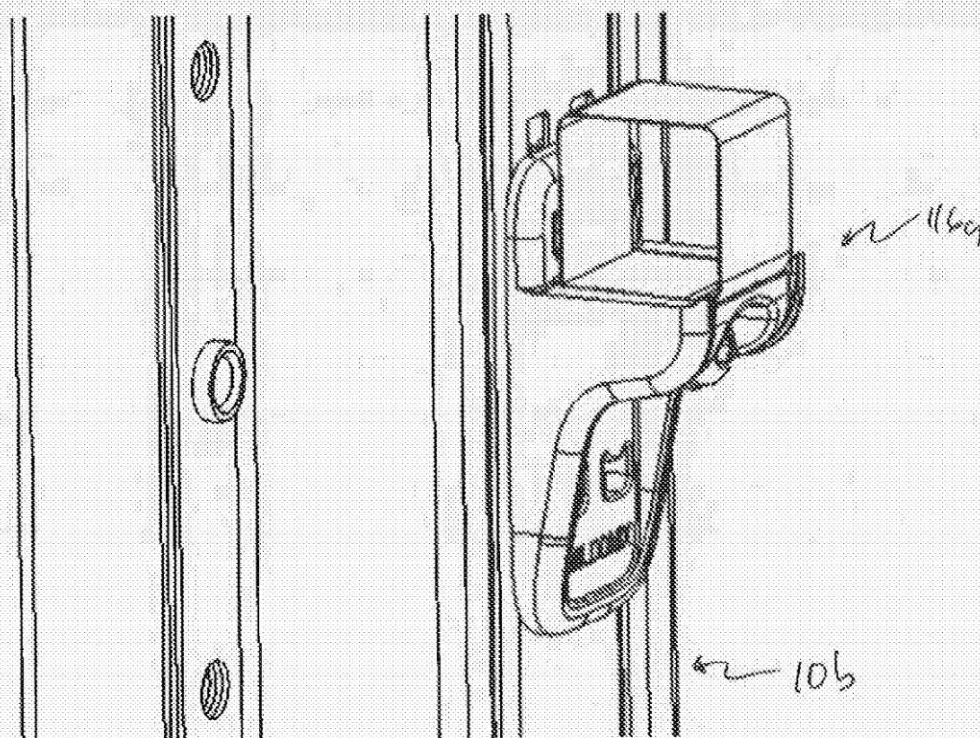


Fig. 54

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2016/000072

A. CLASSIFICATION OF SUBJECT MATTER

E04C 3/04 (2006.01) E04C 3/32 (2006.01) E04B 2/58 (2006.01) F16L 3/08 (2006.01) F16L 3/12 (2006.01)
F16B 7/04 (2006.01) F16B 9/00 (2006.01) E04G 5/06 (2006.01) E04G 7/04 (2006.01) B25B 5/14 (2006.01)

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)

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: EPODOC, WPIAP, GOOGLE PATENTS, ESPACENET; CPC/IPC MARKS: E04C2003/0404, E04C2003/0408, E04C2003/0413, E04C2003/043, E04C2003/0473, E04C3/04, E04C3/32, E04B2/58, E04C3/29, E04C3/291, E04C3/293, F16L3/08, F16L3/1058, F16L3/12, F16L3/137, F16L3/237, F16L3/24, F16B7/04, F16B9, B25B1/205, B25B5/147, E04G5/06, E04G7/04, E04F2011/1819, E04H17/14, E04H17/1421, E04H17/1443, E04H2017/1447, E04H17/00, E04F11/18, E04B1/00; Keywords: centre, inner, plate, sheet, board, stiffen, two, dual, another, U-shape, C-shape, top hat, box, web, omega, profile, section, strap, band, belt, chain, surround, encircle, wrap, wound, pipe, rod, post, rail, louvre, slat, bracket, mount, bolt, screw, fastener, place, lay, rest, support, shoulder, project, arm, leg and the like.

Applicant name STONELAKE PTY LTD and inventor name LAKE, MAURICE searched in databases ESPACENET, AUSPAT and internal databases provided by IP Australia.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Documents are listed in the continuation of Box C	

☒ 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	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
9 May 2016

Date of mailing of the international search report
09 May 2016

Name and mailing address of the ISA/AU

AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
Email address: pct@ipaustalia.gov.au

Authorised officer

Bipin Sumant
AUSTRALIAN PATENT OFFICE
(ISO 9001 Quality Certified Service)
Telephone No. 0262104068

INTERNATIONAL SEARCH REPORT		International application No.
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		PCT/AU2016/000072
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 591110 A (FREDERICK JOHN WEAKLEY) 07 August 1947 Figures 1-3; page 3 line 70 to page 4 line 7	1-21
X	US 3081579 A (P. H. PELLE) 19 March 1963 Figure 2; column 1 line 47 to column 2 line 32	1-22
X	GB 504405 A (FREDERICK JOHN WEAKLEY) 25 April 1939 Figure 6; page 3 lines 68-76	1-21
X	US 2010/0096510 A1 (OH) 22 April 2010 Abstract; figures 1, 3a-d, 5-10; paragraphs 30-32, 44; claim 1	33-52
X	JP 7-127765 A (INABA DENKI SANGYO KK) 16 May 1995 Figures 1-8; paragraph 10	33-52
X	US 3854685 A (PARDUHN) 17 December 1974 Figures 1-4; column 3 line 22 to column 4 line 55	33, 36-37, 42-46, 50-52
A	US 7418807 B1 (RYAN ET AL) 02 September 2008 Figure 1	1, 4-6
A	US 6698155 B2 (MENENDEZ) 02 March 2004 Figures 13, 20	1, 4-6
A	US 2014/0252178 A1 (PHILIP ALLEN MYERS) 11 September 2014 Figures 31-42	33-52

Form PCT/ISA/210 (fifth sheet) (July 2009)

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
the subject matter listed in Rule 39 on which, under Article 17(2)(a)(i), an international search is not required to be carried out, including
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See Supplemental Box for Details

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
1-22, 33-52
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

Supplemental Box**Continuation of: Box III**

This International Application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept.

This Authority has found that there are different inventions based on the following features that separate the claims into distinct groups:

Claims 1-22 are directed to an elongate structural element. The features of the central wall of each of the first and second outer sections having a pair of longitudinal grooves and; the respective flanges of the first outer section and the second outer section attached to an inner plate at opposing planar surfaces are specific to this group of claims.

Claims 23-32 are directed to an elongate structural section. The feature of the first and second end of the central wall of the section having a male portion and a female portion, respectively, is specific to this group of claims.

Claims 33-52 are directed to a bracket suitable for connecting a rail to an elongate structural element. The features of a body defining a shoulder for supporting the rail; a strap configured for wrapping around the rail and; a bolt for attaching a second end of the strap to the body are specific to this group of claims.

PCT Rule 13.2, first sentence, states that unity of invention is only fulfilled when there is a technical relationship among the claimed inventions involving one or more of the same or corresponding special technical features. PCT Rule 13.2, second sentence, defines a special technical feature as a feature which makes a contribution over the prior art.

When there is no special technical feature common to all the claimed inventions there is no unity of invention.

In the above groups of claims, the identified features may have the potential to make a contribution over the prior art but are not common to all the claimed inventions and therefore cannot provide the required technical relationship. The only feature common to the first two groups defined by claims 1-22 and claims 23-32 is a pair of side walls extending from a central wall of the elongate structural element/section to define a generally U-shaped channel, wherein a pair of flanges respectively extend outwardly from the pair of side walls. However it is considered that this feature is generic in this particular art. Therefore there is no special technical feature common to all the claimed inventions and the requirements for unity of invention are consequently not satisfied *a priori*.

INTERNATIONAL SEARCH REPORT		International application No. PCT/AU2016/000072	
Information on patent family members			
This Annex lists known patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.			
Patent Document/s Cited in Search Report		Patent Family Member/s	
Publication Number	Publication Date	Publication Number	Publication Date
GB 591110 A	07 August 1947	GB 591110 A	07 Aug 1947
US 3081579 A	19 March 1963	US 3081579 A	19 Mar 1963
GB 504405 A	25 April 1939	GB 504405 A	25 Apr 1939
US 2010/0096510 A1	22 April 2010	US 2010096510 A1	22 Apr 2010
		US 8322661 B2	04 Dec 2012
		US 8979038 B1	17 Mar 2015
JP 7-127765 A	16 May 1995	None	
US 3854685 A	17 December 1974	US 3854685 A	17 Dec 1974
		US 3764099 A	09 Oct 1973
US 7418807 B1	02 September 2008	US 7418807 B1	02 Sep 2008
US 6698155 B2	02 March 2004	US 2001004825 A1	28 Jun 2001
		US 6698155 B2	02 Mar 2004
		US 2004139684 A1	22 Jul 2004
US 2014/0252178 A1	11 September 2014	US 2014252178 A1	11 Sep 2014
		US 2010299891 A1	02 Dec 2010
		US 8480041 B2	09 Jul 2013
		US 2010301178 A1	02 Dec 2010
		US 8714495 B2	06 May 2014
		US 2010303543 A1	02 Dec 2010
		US 8770885 B2	08 Jul 2014
End of Annex			
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001. Form PCT/ISA/210 (Family Annex)(July 2009)			