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(54) ORNAMENTAL STUD

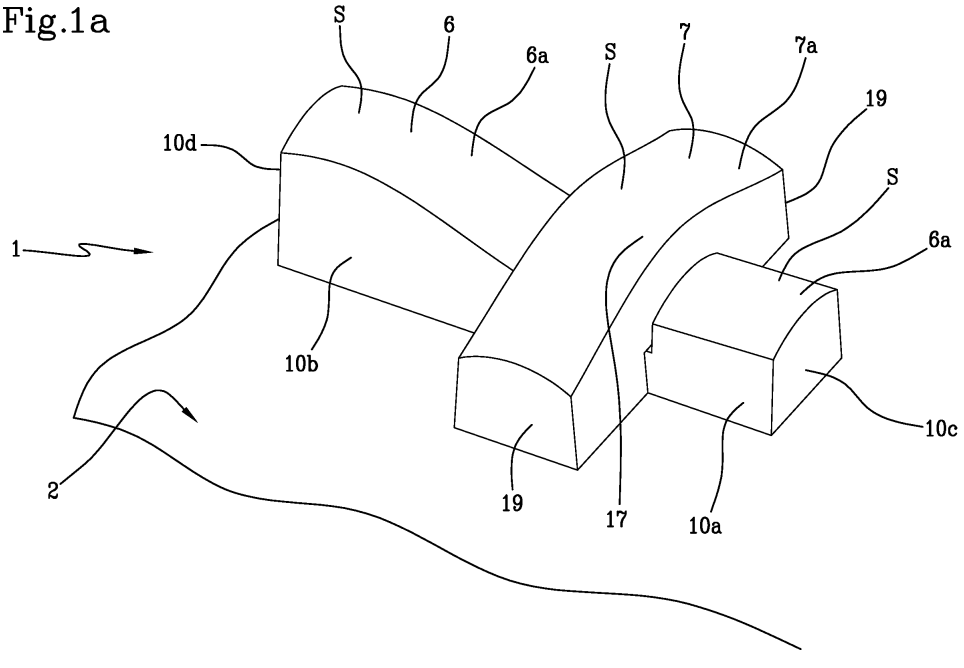
(57) Ornamental insert (1) for articles in the form of a sheet or layer, comprising a pin (3) for stably associating said ornamental insert to a manufactured article (2), a first ornamental element (6) and a second ornamental element (7).

The first ornamental element (6) comprising a base (8) configured to associate the first ornamental element (6) with said manufactured article (2), a compartment (11) configured to accommodate the second ornamental element (7) in a portion opposite said base (8) and a through cavity (13) housing a stem (4) of the pin (3) configured to place in communication the base (8) with the compartment (11).

The second ornamental element (7) comprises a bore (14) for mechanically interlocking the pin (3). The through cavity (13) and the bore (14) are coaxial with each other.

The first (6) and second (7) ornamental elements are engageable in a configuration in which the pin (3) is interlocked with the first (6) and second (7) ornamental elements. Each ornamental element (6, 7) having respective decorative portions (6a, 7a) defining, in mutual collaboration and in the interlocking configuration, a predetermined geometric shape.

Fig.1a



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Description

[0001] The present invention relates to an ornamental insert.

[0002] In particular, the present invention relates to an ornamental insert for manufactured articles in the form of a sheet or layer.

[0003] Even more particularly, the present invention relates to an ornament for manufactured articles in the form of a sheet or layer.

[0004] The term articles in the form of a sheet or layer is understood to mean for example, sheets or layers made of leather, fabric or other material. The term articles in the form of a sheet or layer is understood to mean for example jackets or footwear, or other types of products that may fall within the furnishings sector or otherwise.

[0005] Inserts are known of in the form of studs for clothing or leather goods.

[0006] These ornamental inserts include an aesthetic portion that can be made in any shape (such as an ornamental stone). The aesthetic portion is, in a configuration of use of said stud, externally visible, i.e. facing from an outer portion of the garment or leather goods.

[0007] The insert further comprises a pin which, by perforating said manufactured article, keeps the insert firmly anchored to the manufactured article.

[0008] The above inserts are used to beautify the leather garment or leather goods. In particular, the inserts are used in large numbers in order to obtain a particular pattern or a sought-after aesthetic effect.

[0009] For this reason, use of a large number of pins is needed to anchor the large number of inserts to the manufactured article.

[0010] Unfortunately, the use of a large number of pins in the case of special patterns is not entirely immediate, thereby generating an uneven and inaccurate design.

[0011] Even more unfortunately, a large number of bores must be made on the manufactured article to be able to fix the inserts to said article. The complexity and/or peculiarity of the pattern leads to a certain proximity between one insert and another. Due to this closeness, there is a local weakening of the manufactured article leading it to rip by generating rips on the garment.

[0012] Even more disadvantageously, in the case in which the manufactured article does not rip, the large number of pins and studs causes an increase in the weight of the garment (or in any case of the generic manufactured article) which makes it uncomfortable to wear.

[0013] One purpose of the present invention is therefore to create an ornamental insert and an ornament for manufactured articles in the form of a sheet or layer which makes it possible to overcome the drawbacks of the prior art.

[0014] In particular, one purpose of the present invention is to make available an ornamental insert and an ornament for manufactured articles in the form of a sheet or layer that makes it possible to obtain a uniform design and to prevent unwanted rips in the manufactured article.

[0015] Another purpose of the present invention is to make available an ornamental insert and an ornament for manufactured articles in the form of a sheet or layer, which reduces the number of pins, used and thereby lightens the weight for a user.

[0016] The technical task specified and purposes specified can be substantially achieved by an ornamental insert and an ornament for manufactured articles in the form of a sheet or layer having the characteristics specified in one or more of the appended claims. The dependent claims correspond to possible embodiments of the invention.

[0017] According to the present invention, an ornamental insert for manufactured articles in the form of a sheet or layer is shown.

[0018] An ornamental insert for manufactured articles in the form of a sheet or layer, comprising a pin for stably associating said ornamental insert to a manufactured article, a first ornamental element and a second ornamental element.

[0019] The first ornamental element comprises a base configured to associate the first ornamental element with the manufactured article, a compartment configured to accommodate the second ornamental element in a portion opposite the base and a through cavity housing a stem of the pin configured to place in communication the base with the compartment.

[0020] The second ornamental element comprises a bore for mechanically interlocking the pin. The through cavity and the bore are coaxial with each other.

[0021] The first and second ornamental elements are engageable in a configuration in which the pin is interlocked with the first and second ornamental elements. Each ornamental element has respective decorative portions defining in mutual collaboration and in the engagement configuration a predefined geometric shape.

[0022] Further characteristics and advantages of the present invention will be evident from the indicative and thereby non-limiting description of an ornamental insert for manufactured articles in the form of a sheet or layer. Such description will be made below with reference to the appended drawings, provided for indicative purposes only and therefore non-limiting, wherein:

- Figures 1a-1c are a schematic representation of an ornamental insert according to the present invention in one embodiment;
- Figures 2a-2c are a schematic representation of a first member of the ornamental insert according to the present invention;
- Figures 3a and 3b are a schematic representation of a second member of the ornamental insert;
- Figure 4 is a schematic representation of a front view of a generic first member of the ornamental insert according to the present invention;
- Figure 5 is a schematic representation of a bottom view of the ornamental insert of Figures 1a-1c;
- Figure 6 is a schematic representation of an orna-

ment according to the present invention;
- Figure 7 is a top view of the ornament of figure 6;
- Figures 8a and 8b are a schematic representation of a member of the ornament of Figure 6.

[0023] With reference to the appended figures, reference numeral 1 globally denotes an ornamental insert for manufactured articles in the form of a sheet or layer according to the present invention, which, for simplicity's sake, will be referred to hereafter as an ornamental insert 1. The elements in common in the attached drawings have been indicated with the same reference number.

[0024] A manufactured article 2 in the form of a sheet or layer is an element made of leather, fabric or other material such as a jacket or footwear.

[0025] The ornamental insert 1 comprises a pin 3 for stably associating said ornamental insert 1 to the manufactured article 2. The pin 3 comprises a stem 4 and a head 5. Preferably, the stem 4 is smooth or knurled. The head 5 is configured to press on said ornamental insert 1 itself to anchor it firmly to the manufactured article 2.

[0026] The ornamental insert 1 comprises a first ornamental element 6 and a second ornamental element 7. The first 6 and second 7 ornamental elements are engageable in a configuration in which the pin 3 is interlocked with the first 6 and second 7 ornamental elements.

[0027] The first 6 and second ornamental elements 7 have respective decorative portions 6a and 7a. Each decorative portion 6a and 7a defines in mutual collaboration and in the interlocked configuration a predefined geometric shape.

[0028] Preferably, the predetermined geometric shape has a cross 17 or mesh pattern.

[0029] Even more preferably, the decorative portions 6a and 7a have an upper surface "S" having a substantially wavy pattern. The term wavy pattern means a pattern of the upper surface "S" of the decorative portions 6a and 7a having a sinuous pattern with crests and valleys of the upper surface S in relation to the manufactured article 2.

[0030] In other words, as illustrated in Figures 1a-1c, the decorative portions 6a and 7a are such as to complement each other forming a particular design from the union of the first ornamental element 6 and the second ornamental element 7.

[0031] Entering more in detail, the first ornamental element 6 comprises a base 8 shown in Figure 5. The base 8 is configured to associate the first ornamental element 6 with the manufactured article 2. In other words, the base 8 defines a contact surface 8a of the first ornamental element 6 with the manufactured article 2.

[0032] Preferably, the base 8 comprises a plurality of adhesive feet 9a (shown in Figures 4 and 5). The adhesive feet 9a are configured to improve the adhesion of the base 8 to the manufactured article 2 in the configuration in which the pin 3 is interlocked with the first 6 and second 7 ornamental elements.

[0033] The first ornamental element 6 comprises, as illustrated in Figures 2a-2c, a first extension portion 10a and a second extension portion 10b. Each extension portion 10a and 10b defines, above, the decorative portion 6a of the first ornamental element 6.

[0034] In particular, each extension portion 10a and 10b comprises a lateral joining surface 10c and 10d.

[0035] The first extension portion 10a and the second extension portion 10b define a compartment 11. The first 10a and the second 10b extension portion may have very different lengths "l1" and "l2" from each other. This means that the compartment 11 can be located anywhere within the total length "L" of the first ornamental element 6. The compartment 11 is configured to house the second ornamental element 7. The compartment 11 is located in a portion opposite the base 8 allowing the insertion from the top of the second ornamental element 7 in the first ornamental element 6.

[0036] The compartment 11 comprises a plurality of centre bores 12. The centre bores 12 serve as a support to centre the second ornamental element 7 in the compartment 11.

[0037] The first ornamental element 6 comprises a through cavity 13. The through cavity 13 acts as a housing of the stem 4 of the pin 3. In particular, the through cavity 13 is configured to place in communication the base 8 with the compartment 11. Even more particularly, in the engagement configuration of the pin 3 with the first 6 and the second 7 ornamental element, the stem 4 of the pin 3 completely crosses the through cavity 13, allowing the head 5 to press on the base 8 of the first ornamental element 6.

[0038] As represented in Figures 2a-2c, the first ornamental element 6 may have various shapes. The three embodiments represented in Figures 2a-2c are not the only ones possible.

[0039] In particular, the lateral surface 10c of the first extension portion 10a has a height "H1", just as the lateral joining surface 10d of the second extension portion 10b has a height "H2".

[0040] In other words, the height "H1" and the height "H2" of the lateral surfaces 10c and 10d are such as to ensure the wavy pattern of the decorative portion 6a so that it is as consistent and harmonious as possible. To achieve this result the height "H1" and the height "H2" preferably have different dimensions, as shown in figure 4.

[0041] Figure 3a is the second ornamental element 7.

[0042] Generally, the second ornamental element 7 comprises a bore 14 (shown in figure 3b). The bore 14 defines a mechanical engagement of the pin 3. In particular, in the engagement configuration of the pin 3 with the first 6 and the second ornamental element 7, the stem 4 of the pin 3 goes to interlock, in a final portion thereof 4a, with the bore 14.

[0043] The through cavity 13 and the bore 14 are coaxial. Preferably, the centre bores 12 serve as a support to centre the bore 14 of the second ornamental element 7 with the through cavity 13 of the first ornamental ele-

ment 6.

[0044] As shown in figure 3a, the second ornamental element 7 comprises a first extension 15a and a second extension 15b. The two extensions 15a and 15b define a compartment 16. The compartment 16 is complementary to the compartment 11 of the first ornamental element 6. The compartment 16 is thus configured for the additional insertion of the second ornamental element 7 in the first ornamental element 6. In other words, as illustrated in Figures 1a-1c, the second ornamental element 7 is configured to fit into the first ornamental element 6 with the compartment 11 and the compartment 16 which, entering into contact with each other, enable the interlocking configuration to be obtained together with the pin 3. This way the decorative portions 6a and 7a define the cross 17 (or mesh).

[0045] Each extension 15a and 15b comprises its own base 18 and its own lateral joining surface 19. The bases 18 go to define a contact surface 18b of the second ornamental element 7 with the manufactured article 2. The bases 18 of the second ornamental element 7 go to define a cross-shaped base 20 with the base 8 of the first ornamental element 6. In other words, the bases 18 of the second ornamental element 7 and the base 8 of the first ornamental element 6 define a cross-shaped base 20 in a configuration in which the pin 3 is interlocked with the first 6 and second 7 ornamental elements as shown in figure 5.

[0046] Preferably, each base 18 comprises a plurality of adhesive feet 18a. The adhesive feet 18a are configured to improve the adhesion of the bases 18 to the manufactured article 2 in the configuration in which the pin 3 is interlocked with the first 6 and second 7 ornamental elements.

[0047] Preferably, the adhesive feet 9a and 18a have a height "p" (as shown in figure 4 with respect to the adhesive feet 9a).

[0048] Preferably, each lateral joining surface 19 of the extensions 15a and 15b has a height "h".

[0049] The present invention also relates to an ornament 21 for manufactured articles 2 in the form of a sheet or layer.

[0050] The ornament 21, shown in figures 6 and 7, comprises a plurality of ornamental inserts 1 as described previously.

[0051] In particular, the ornament 21 comprises the ornamental inserts 1 of figure 1a, 1b and 1c alongside each other.

[0052] Even more particularly, the ornamental inserts 1 are juxtaposed so that a lateral joining surface 10c is juxtaposed to a lateral joining surface 10d in such a way that the height "H1" has the same height as "H2", and so that the wavy pattern is continuous and therefore has no edges. In other words, a row 22 of ornamental inserts 1 is assembled so that there is a continuous pattern of the decorative portion 6a so that juxtaposing the extension portion 10a of an ornamental insert 1 with the extension portion 10b of another ornamental insert 1, as well as having the lateral joining surfaces 10c and 10d matching, there is continuity in the extension of the decorative portion 6a which is harmonious and consistent.

[0053] The rows 22 are juxtaposed so that the lateral joining surfaces 19 of the second ornamental element 7 of a row 22 come into contact with the first ornamental element 6 of another row 22. In particular, the lateral joining surface 19 of a row 22 is juxtaposed to the first ornamental element 6 of the other row 22 so that the height "h" of the lateral joining surface 19 does not exceed the height of the first joining element 6 in that particular joining point. This way the final pattern created will be consistent and harmonious. The ornament 21 further comprises a plurality of filler elements 23. Each filler element 23, as shown in Figures 8a and 8b, comprises a decorative portion 23a preferably with a wavy pattern. The decorative portion 23a is such as to maintain the wavy pattern of the ornament 21 consistent and continuous throughout its entire extension. The filler element 23 comprises a pin 3 for stably associating the filler element 23 to the manufactured article 2, and a base 24 configured to associate the filler element 23 to the manufactured article 2. Preferably the base 24 comprises a plurality of adhesive feet 24a configured to improve the adhesion of the filler element 23 to the manufactured article 2. Each filler element 23 comprises its own bore 25 for mechanically interlocking the pin 3.

[0054] Preferably, the filler elements 23 are positioned where the ornamental inserts 1 form gaps 26 between each other.

[0055] The plurality of ornamental inserts 1 and filler elements 23 juxtaposed as described above come to define an ornamental mesh 27.

[0056] The ornamental insert 1 and the ornament 21 as described above are able to overcome the drawbacks emerging of the prior art.

[0057] Advantageously, the plurality of inserts 1 which form the ornament 21, defining with the fillers 23 the ornamental mesh 27, makes it possible to use a smaller number of pins 3 than the known ornamental inserts.

[0058] Even more advantageously, the configuration in which the pin 3 is interlocked with the first 6 and second 7 ornamental elements which go to form the cross 17 makes it possible to obtain a consistent, continuous and visually attractive pattern. In fact, the known ornamental inserts require, in the case of wishing to obtain a shape such as the one of the ornamental insert 1 of the present invention, the use of a large number of pins to juxtapose elements of more or less similar shape or to use inserts which if juxtaposed with each other would produce an untidy pattern with little harmony.

[0059] Moreover, even more advantageously, the reduction in the number of pins to be used generating the ornament 21 avoids the known problems related to rips on the manufactured article 2. In fact, having the bores spaced apart from each other prevents the fabric/leather of the manufactured article 2 from weakening in the long term.

Claims

1. An ornamental insert (1) for manufactured articles in the form of a sheet or layer, comprising a pin (3) for stably associating said ornamental insert with a manufactured article (2);
characterised in that said ornamental insert (1) comprises a first ornamental element (6) and a second ornamental element (7), said first ornamental element (6) comprising a base (8) configured to associate said first ornamental element (6) with said manufactured article (2), a compartment (11) configured to accommodate said second ornamental element (7) in a portion opposite to said base (8) and a through cavity (13) housing a stem (4) of said pin (3) configured to put in communication said base (8) with said compartment (11); said second ornamental element (7) comprising a bore (14) for mechanically interlocking the pin (3), said through cavity (13) and said bore (14) being coaxial with each other, said first (6) and second (7) ornamental elements being engageable in a configuration in which said pin (3) is interlocked with said first (6) and second (7) ornamental elements; each ornamental element having respective decorative portions (6a, 7a) defining, in mutual collaboration and in said interlocking configuration, a predetermined geometric shape.

2. The ornamental insert (1) according to claim 1, wherein said first ornamental element (6) comprises in said compartment (11) a plurality of centre bores (12).

3. The ornamental insert (1) according to claim 1 or 2, wherein said first ornamental element (6) comprises a first extension portion (10a) and a second extension portion (10b), each extension portion (10a, 10b) defining said decorative portion (6a) of said first ornamental element (6) and comprising a lateral joint surface (10c, 10d).

4. The ornamental insert (1) according to one or more of the preceding claims, wherein said second ornamental element (7) comprises a first extension (15a) and a second extension (15b), said extensions (15a, 15b) defining a compartment (16) complementary to the compartment (11) of said first ornamental element (6) and configured such that said second ornamental element (7) fits in a complementary manner in said first ornamental element (6), each extension (15a, 15b) comprising its own base (18) and its own lateral joint surface (19), said bases (18) of said second ornamental element (7) defining together with said base (8) of said first ornamental element (6) a cross-shaped base (20) of said ornamental insert (1) in a configuration in which said pin (3) is interlocked with said first (6) and second (7) ornamental elements.

5. The ornamental insert (1) according to one or more of the preceding claims, wherein each base (8, 18) comprises a plurality of adhesive feet (9a, 18a).

6. The ornamental insert (1) according to one or more of the preceding claims, wherein said decorative portions (6a, 7a) have an upper visible surface (S) with a substantially wavy pattern.

7. The ornamental insert (1) according to one or more of the preceding claims, wherein said pin (3) comprises a head (5) configured to press on the base (8) of said first ornamental element (6), and wherein said stem (4) of said pin (3) is preferably smooth or knurled.

8. The insert according to any one of the preceding claims, wherein said predetermined geometric shape has a cross-shaped or mesh configuration.

9. An ornament (21) for manufactured articles in the form of a sheet or layer, comprising a plurality of ornamental inserts (1) according to one or more of the preceding claims and filler elements (23), each filler element (23) comprising a decorative portion (23a) preferably with a wavy pattern, a pin (3) for stably associating said filler element (23) with a manufactured article (2), a base (24) configured to associate said filler element (23) with said manufactured article (2) and a bore (25) for mechanically interlocking the pin (3), said plurality of ornamental inserts (1) and filler elements (23) defining an ornamental mesh (27).

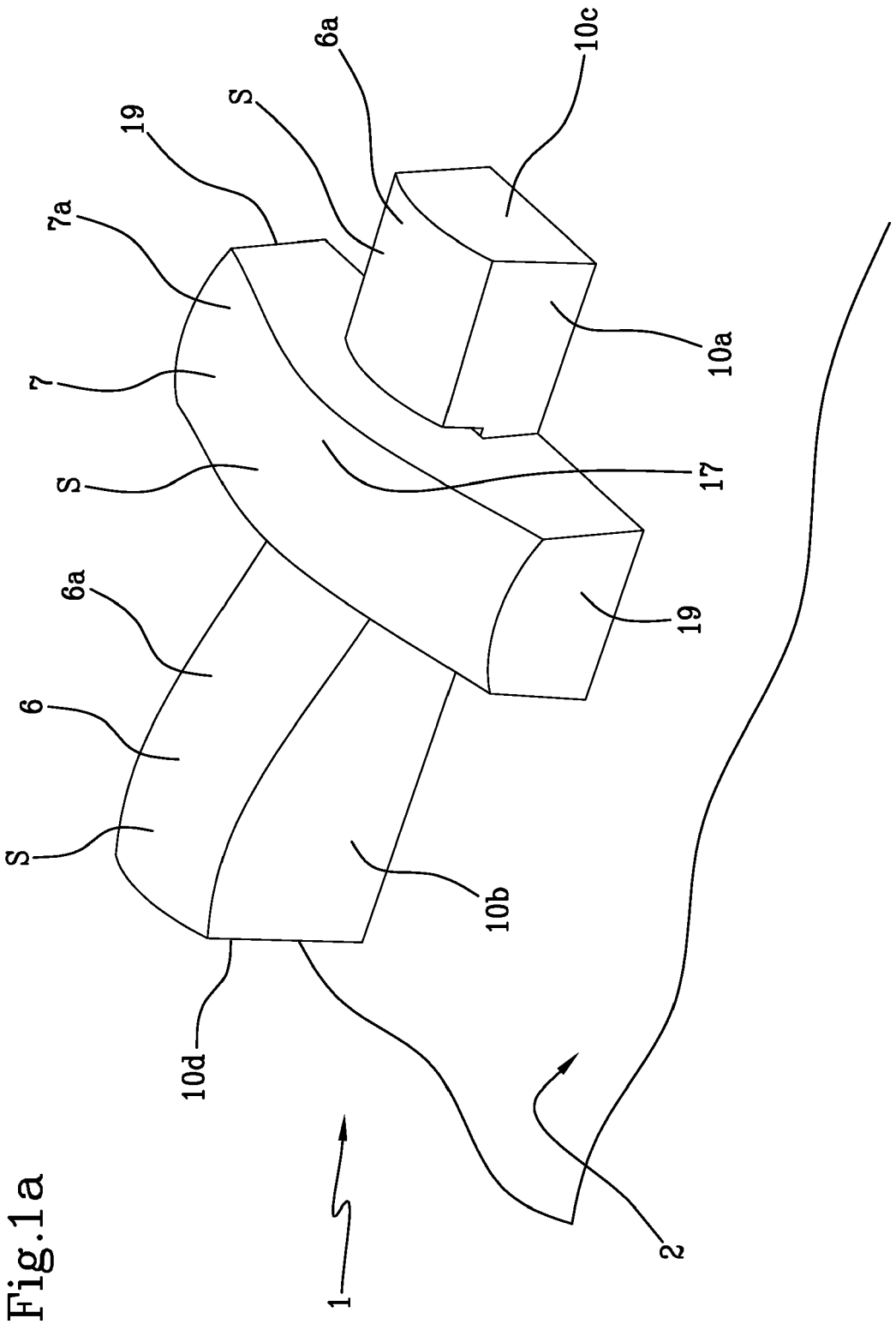


Fig.1a

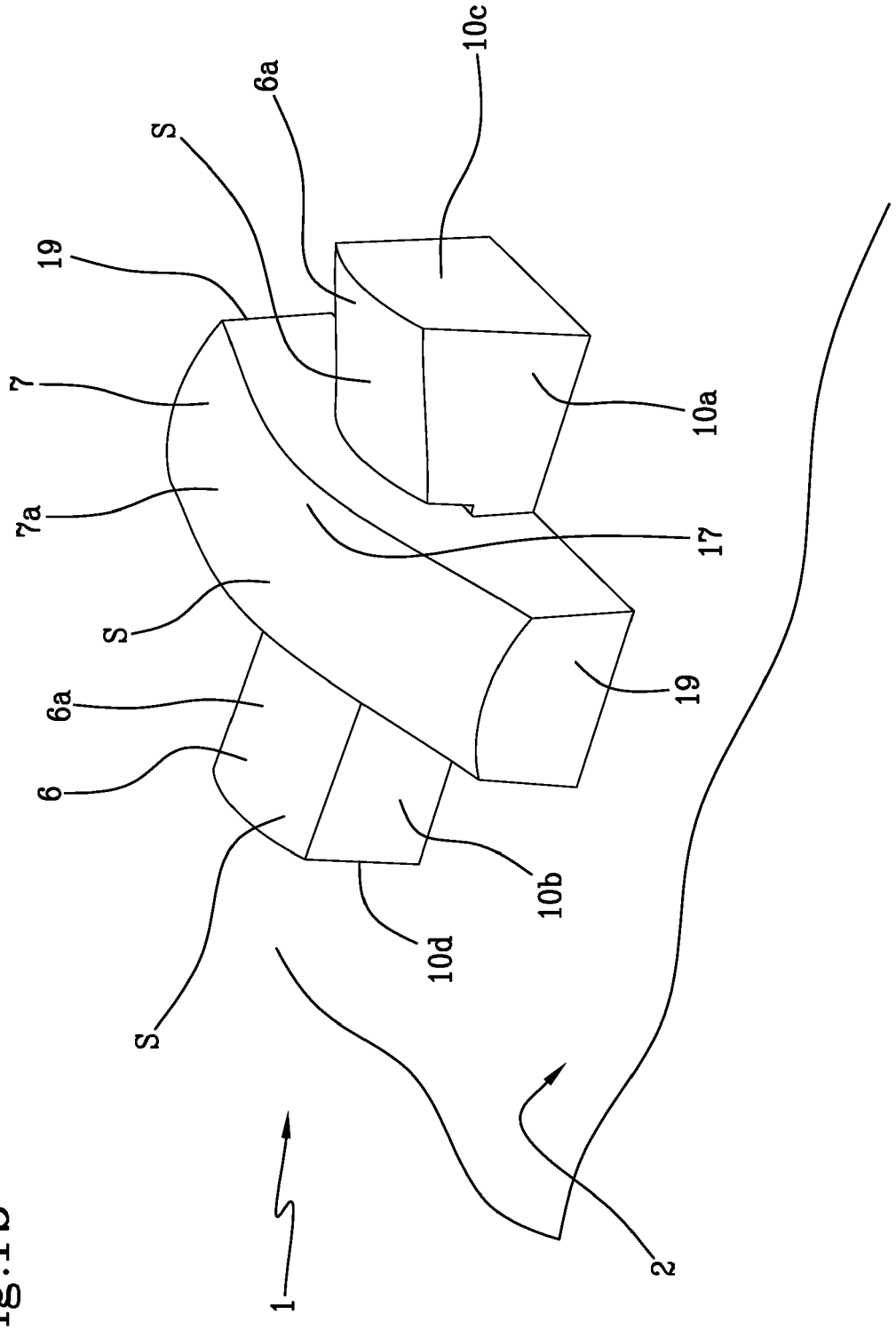


Fig.1b

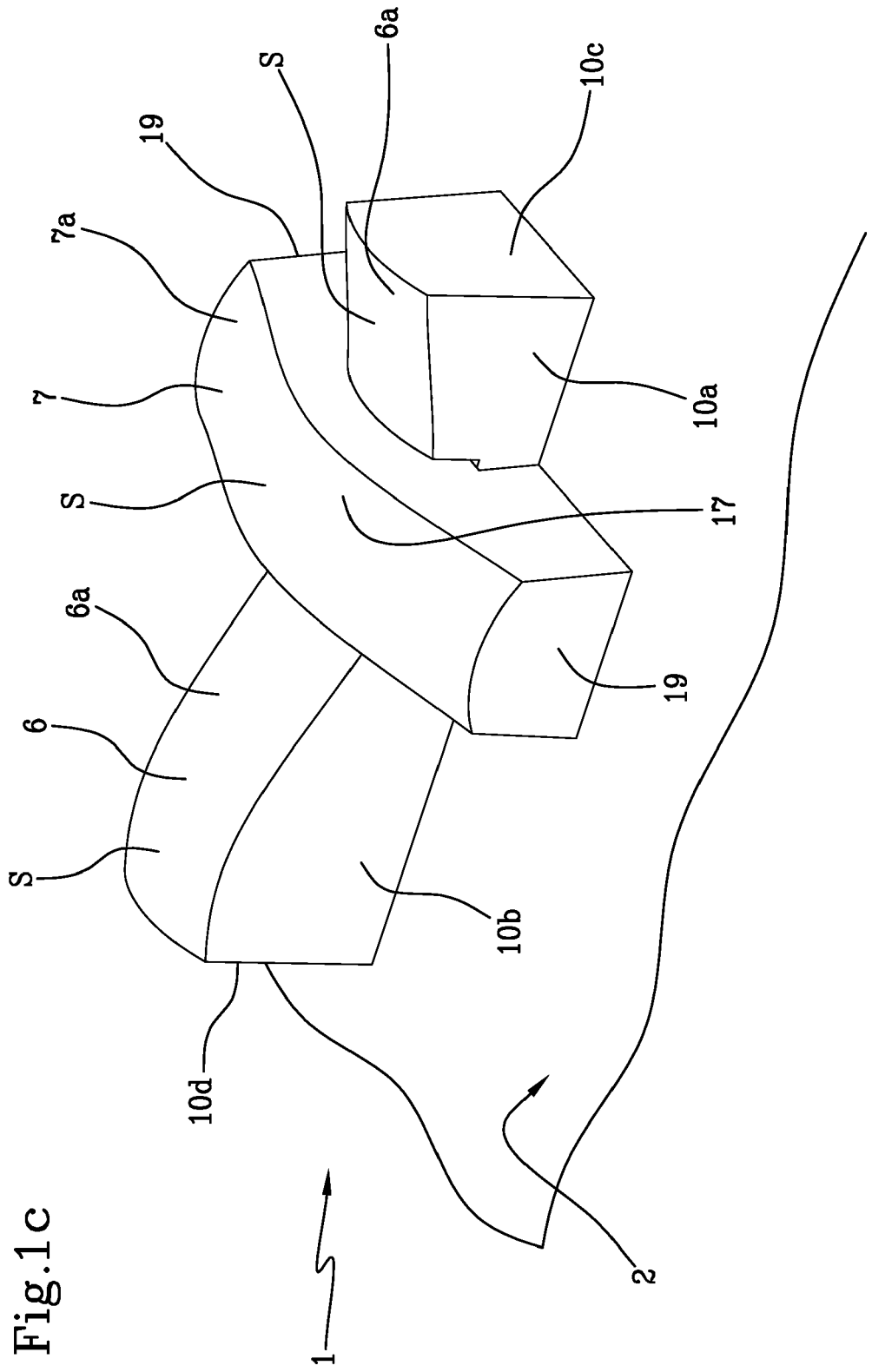


Fig.1c

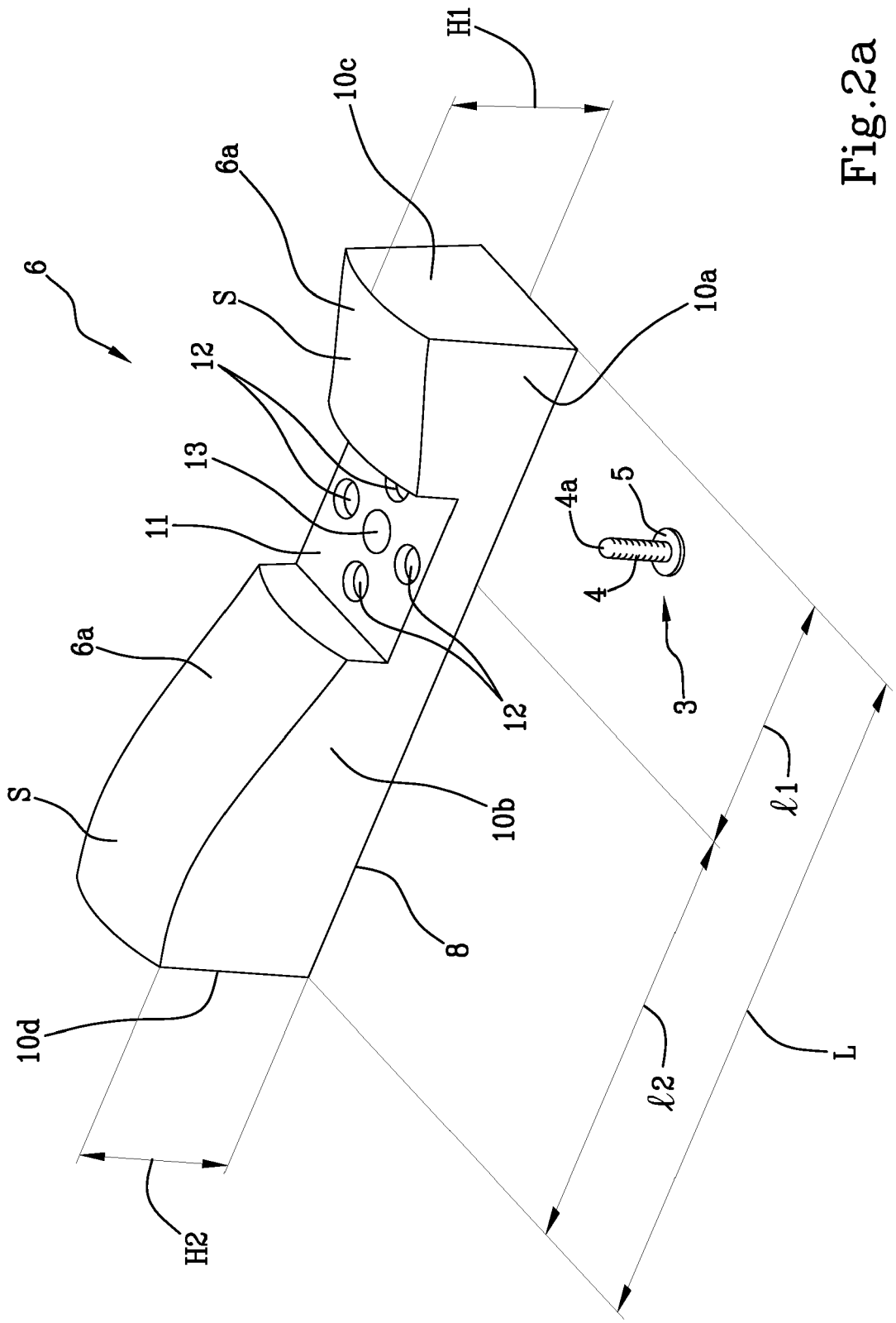


Fig.2a

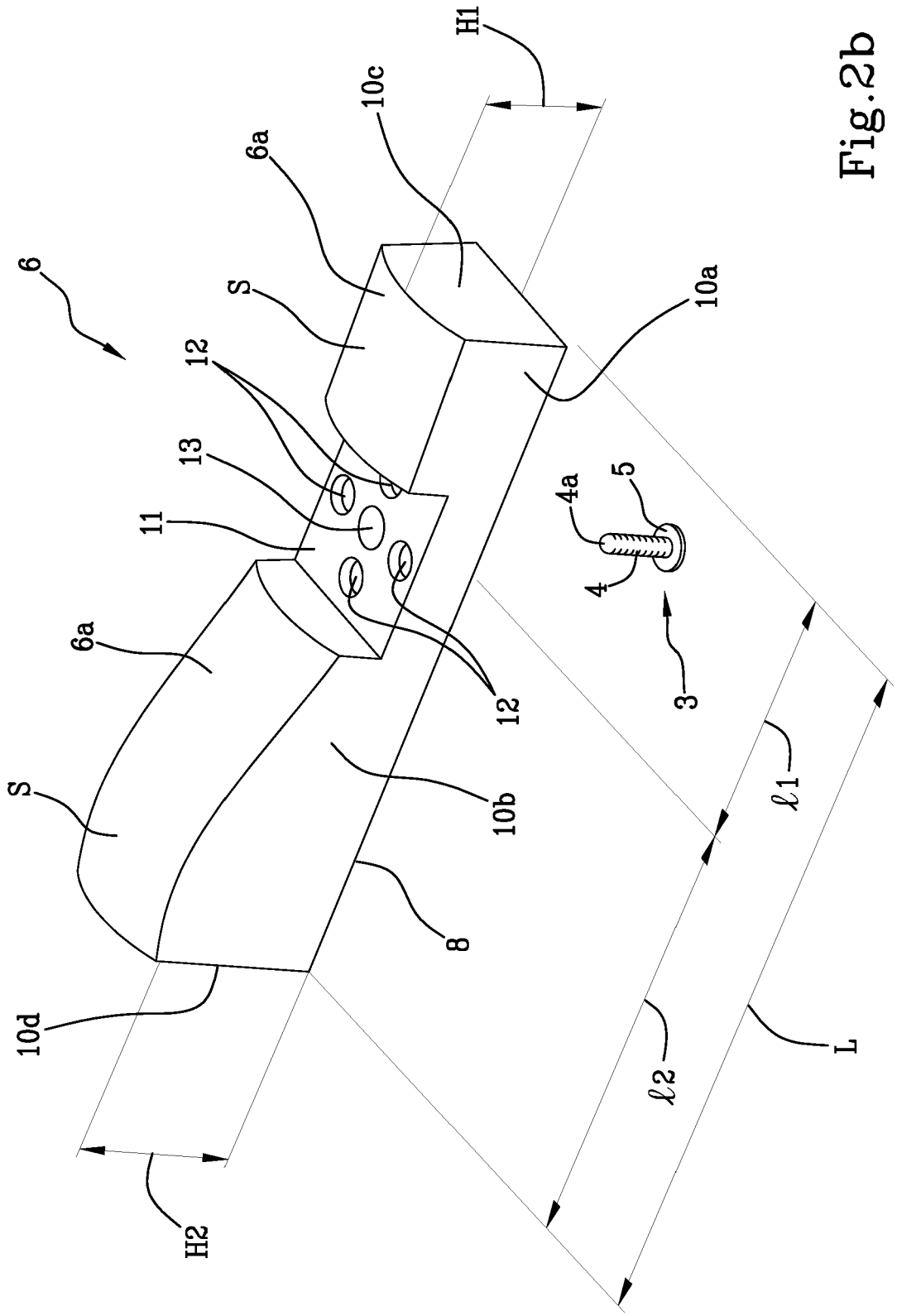


Fig.2b

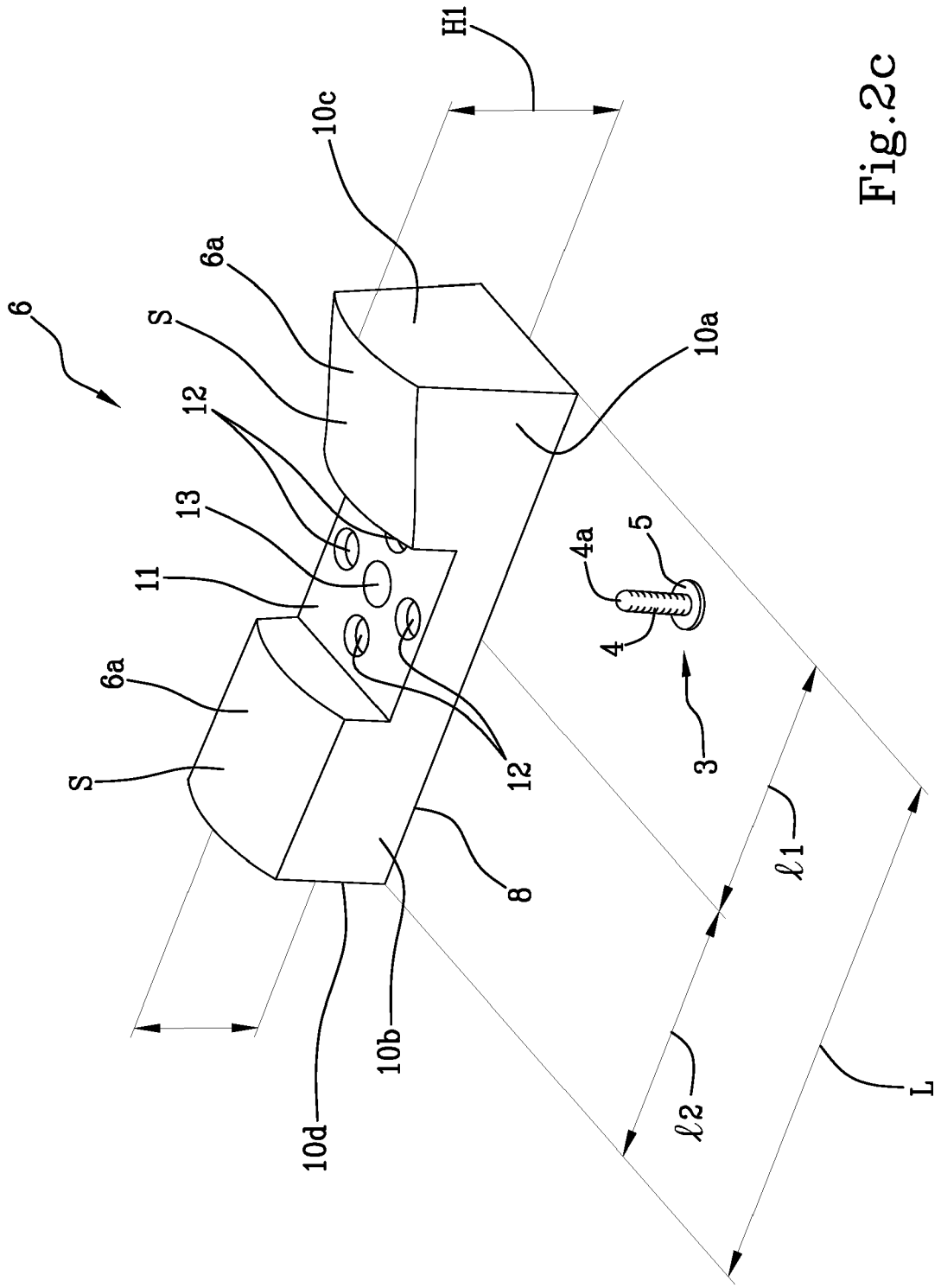
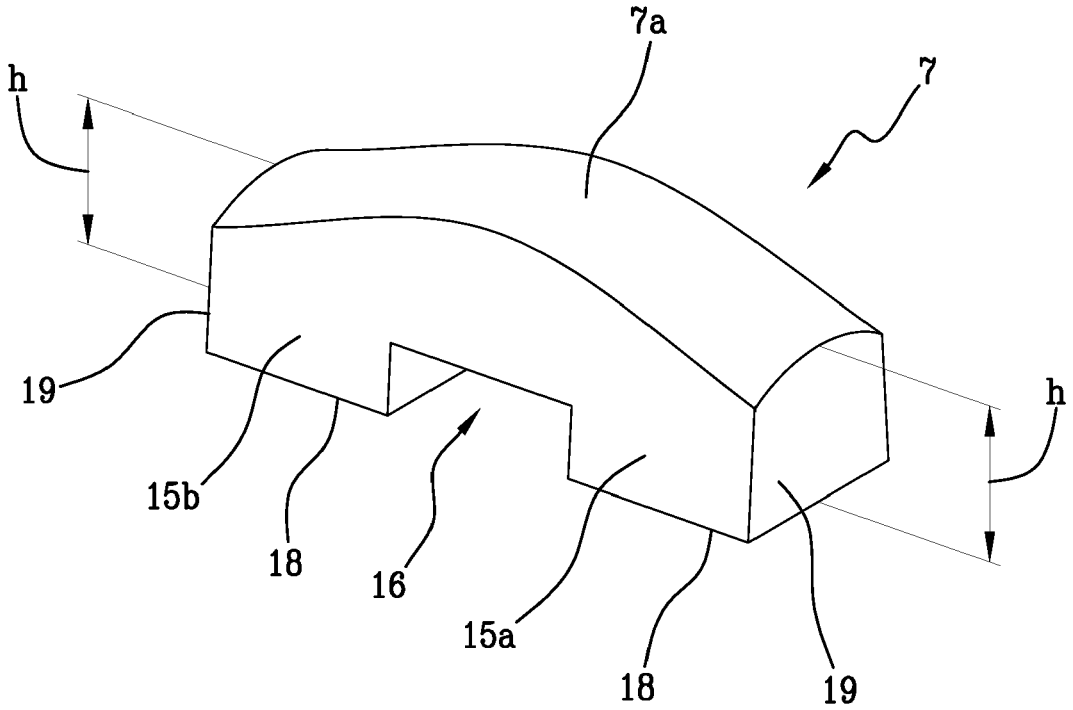


Fig.2c

Fig.3a


7a
7
h
19
15b
18
16
15a
18
19
h

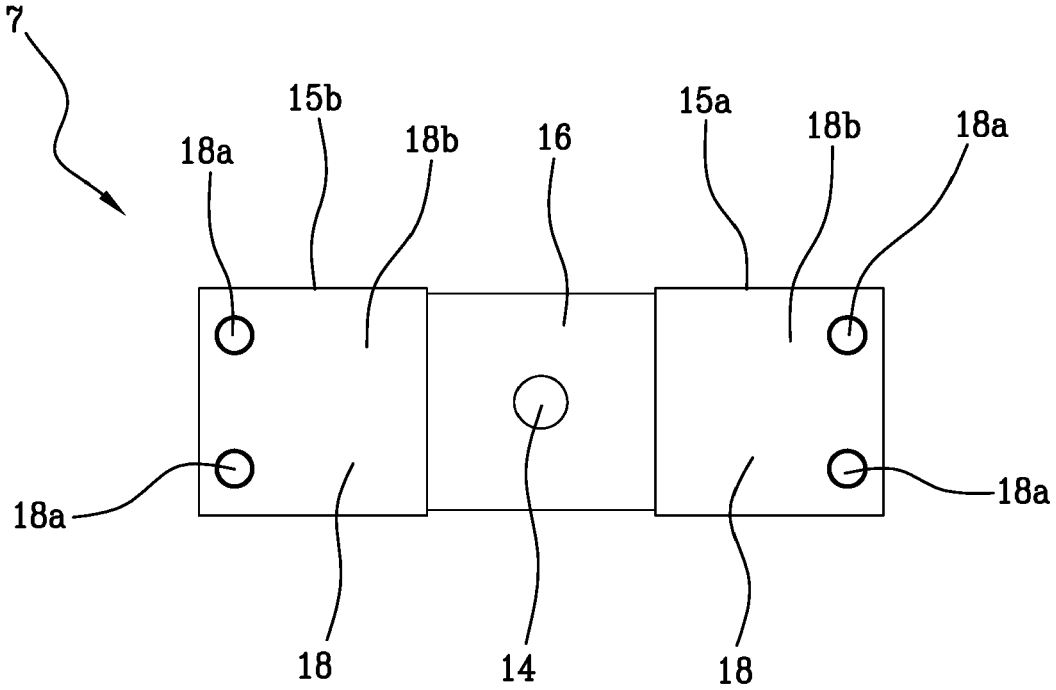
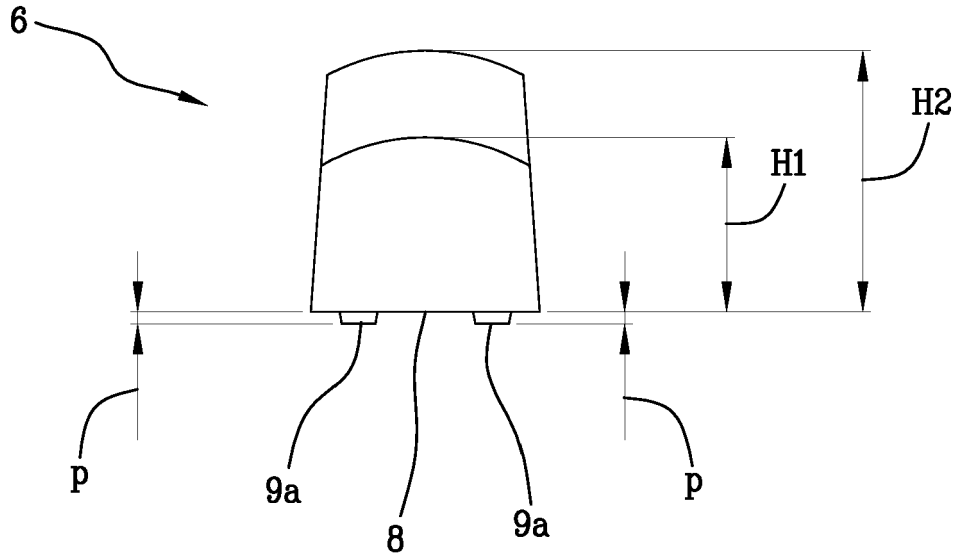
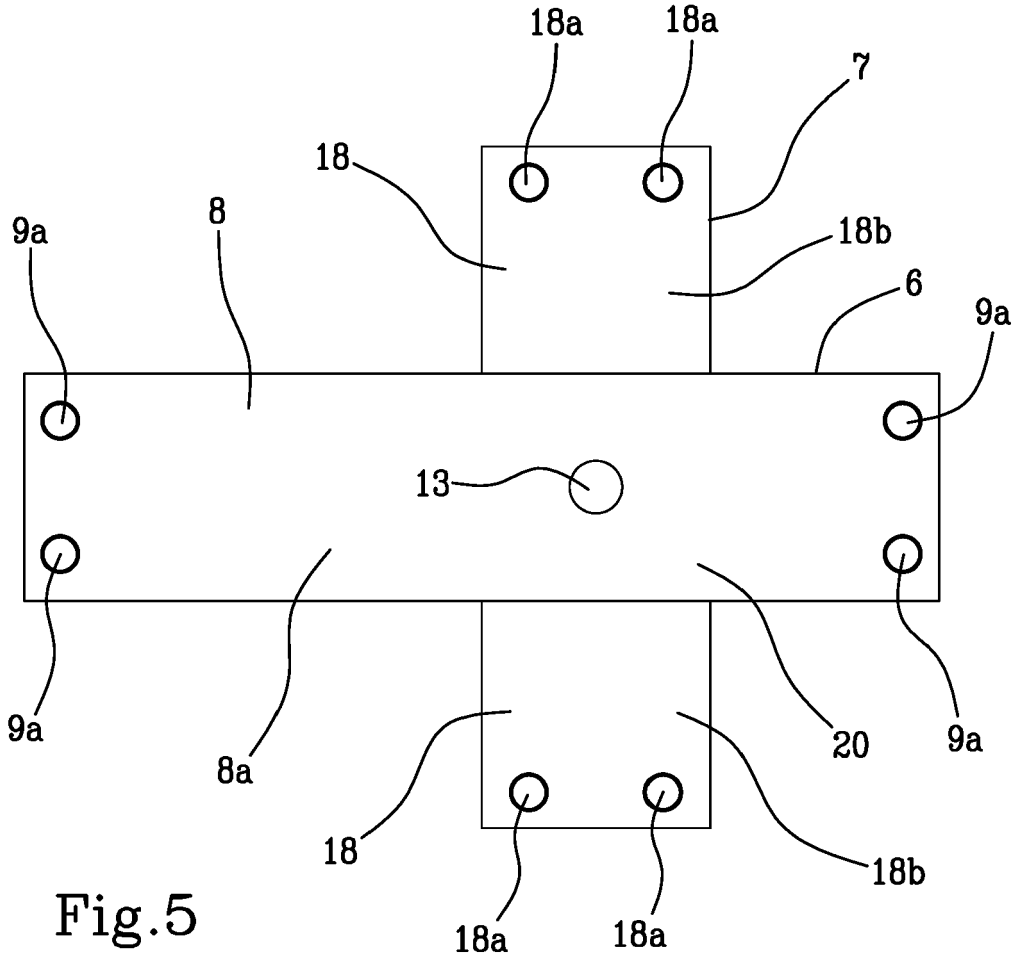

7
15b
18a
18b
16
15a
18b
18a
18a
18a
18
14
18

Fig.3b

Fig.4


6
H2
H1
p
9a
8
9a
p


18a
18a
7
18
8
9a
18b
6
9a
13
9a
8a
20
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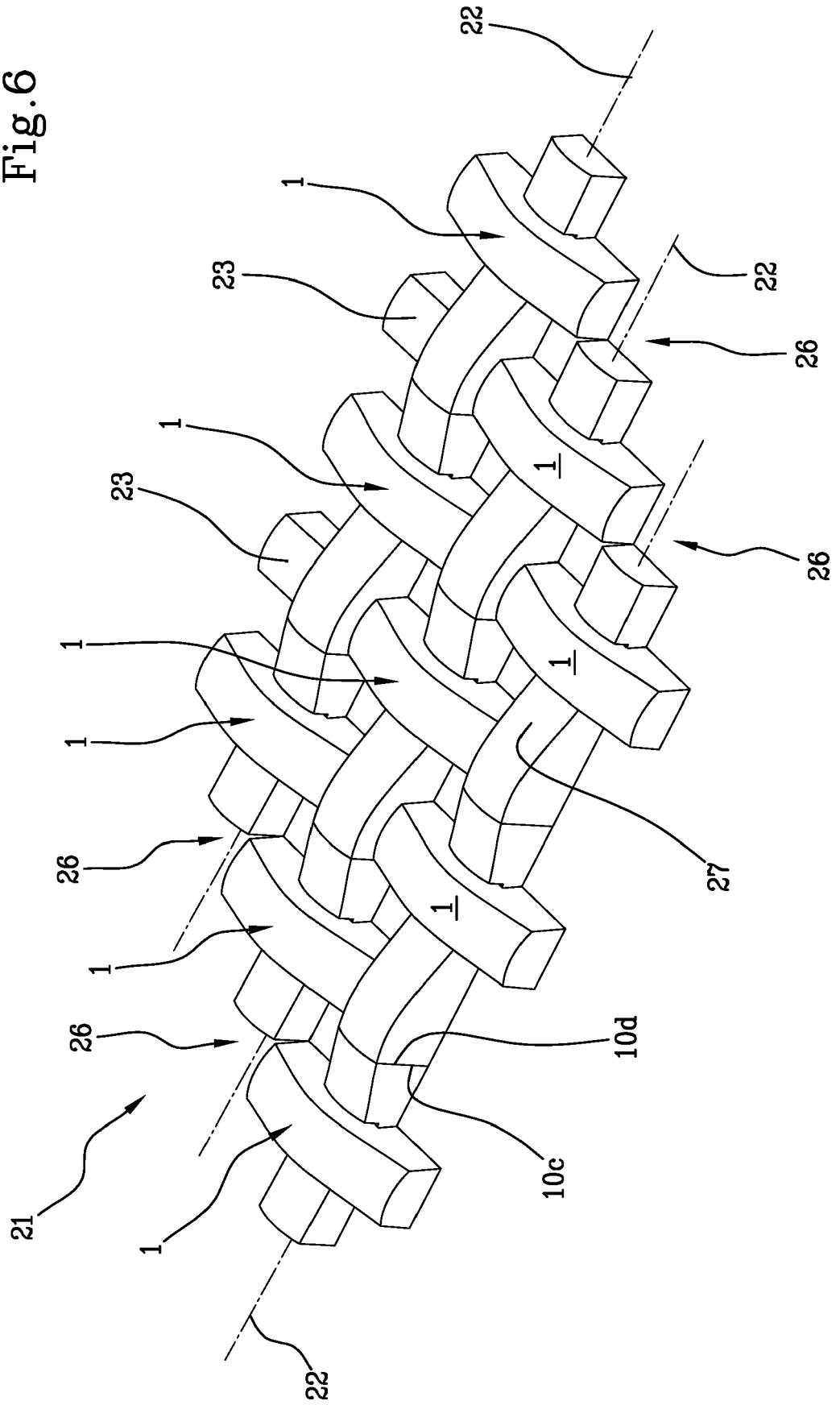
18
18b
18a
18a

Fig.5

Fig.6



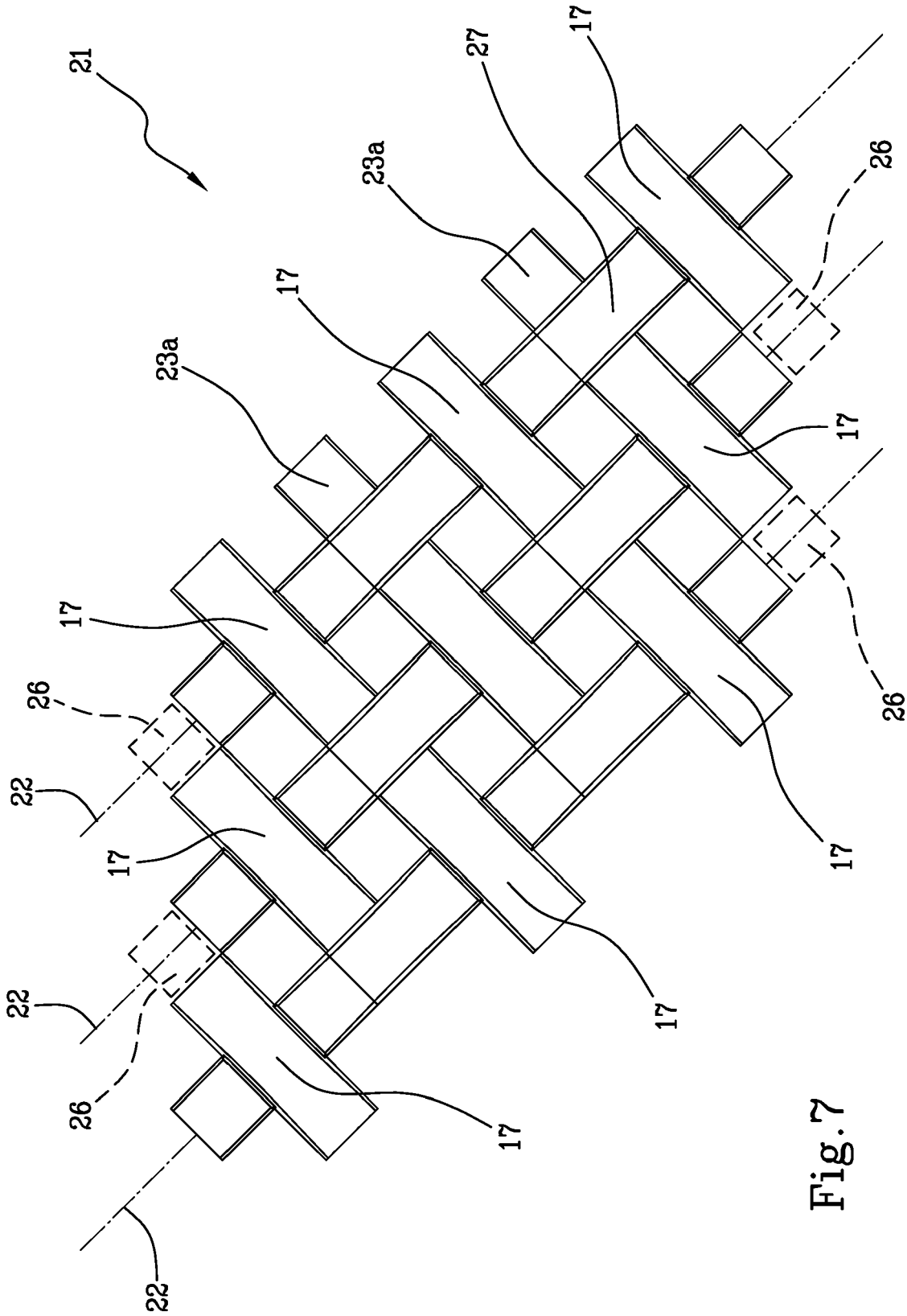
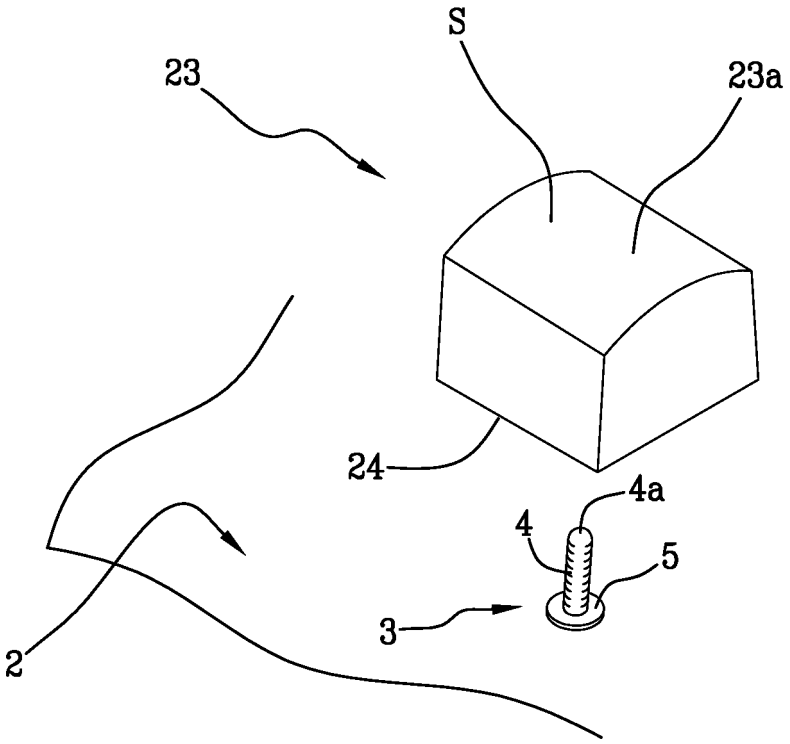


Fig.7

Fig.8a



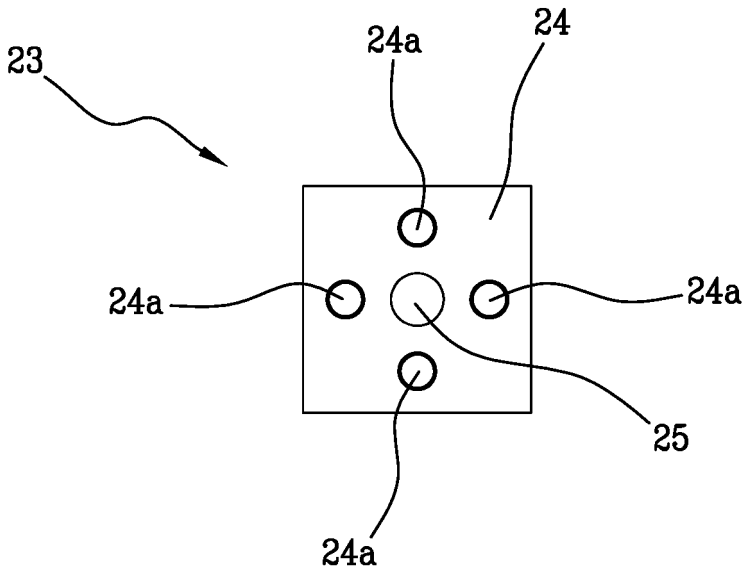


Fig.8b

Europäisches Patentamt
European Patent Office
Office européen des brevets

EUROPEAN SEARCH REPORT

Application Number
EP 18 15 6087

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 467 510 A (HARTZELL JONATHAN [US]) 21 November 1995 (1995-11-21) * column 7, line 1 - column 8, line 48 * * column 12, line 10 - column 13, line 21 * * figures 1,3b,3c,6, 8a-c *	1-9	INV. B44C1/18 B44C1/28 B44C3/12 F16B19/00 A44B1/00
A	US 2011/079046 A1 (ROSENBERG CIPORA [US] ET AL) 7 April 2011 (2011-04-07) * paragraph [0014] - paragraph [0018] * * figures 1-3 *	1-9	
A	FR 2 804 292 A1 (MELKONIAN MICHEL [FR]) 3 August 2001 (2001-08-03) * page 2, lines 12-27 * * figures 1-6 *	1-9	
A	CA 2 411 550 A1 (MOK KENNETH TING KIN [CA]) 12 May 2004 (2004-05-12) * figures 1-7 *	1-9	
A	DE 26 55 470 B1 (FEIST NORBERT) 23 February 1978 (1978-02-23) * column 2, line 45 - column 4, line 54 * * figures 1,2,5,6,9 *	1-9	TECHNICAL FIELDS SEARCHED (IPC) B44C A44B A44C A47G F16B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	29 June 2018	Björklund, Sofie

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