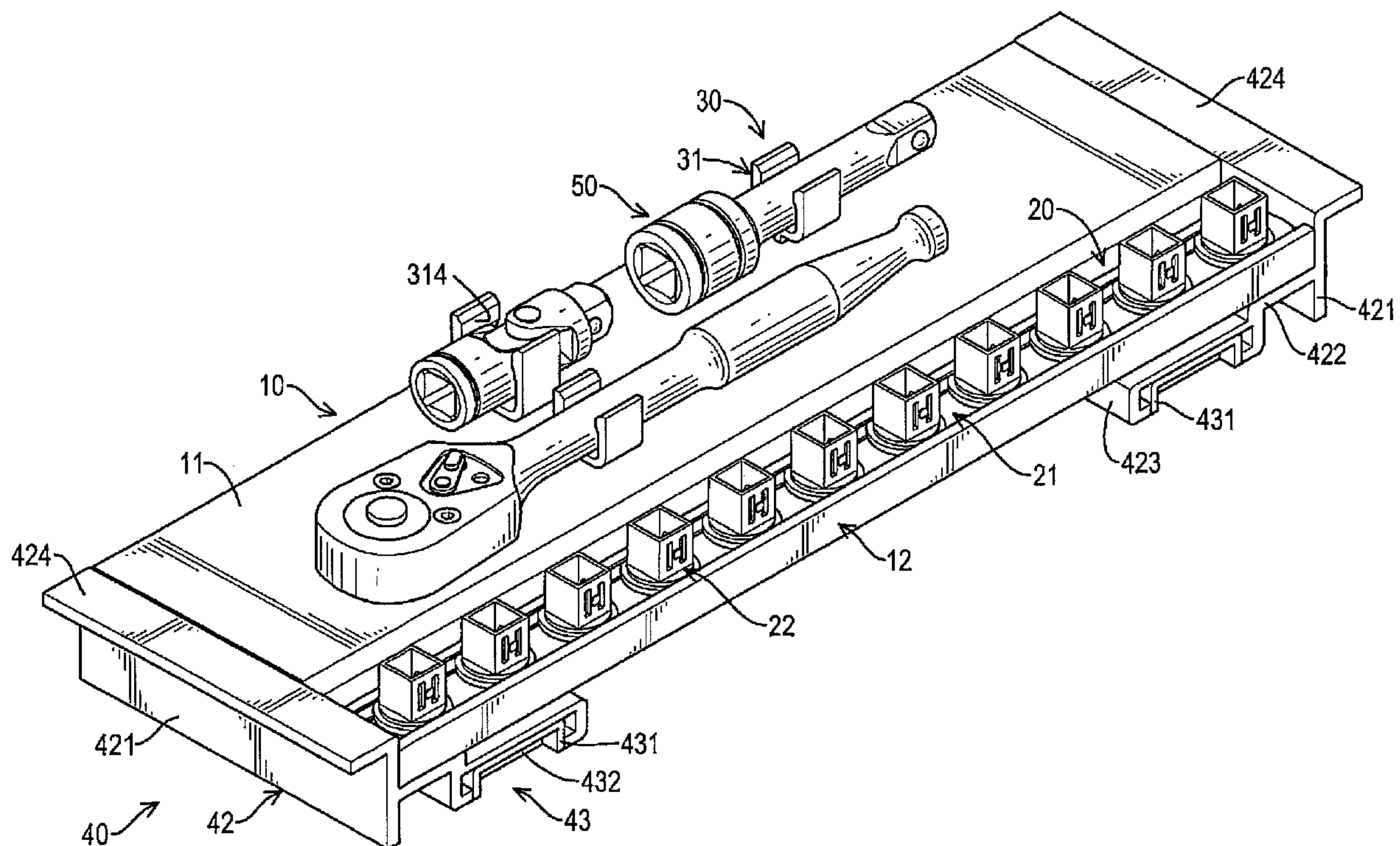




(22) **Date de dépôt/Filing Date:** 2016/05/13  
(41) **Mise à la disp. pub./Open to Public Insp.:** 2016/12/02  
(45) **Date de délivrance/Issue Date:** 2018/03/20  
(30) **Priorité/Priority:** 2015/06/02 (TW104208746)

(51) **Cl.Int./Int.Cl.** **B25H 3/00** (2006.01),  
**B25B 13/46** (2006.01), **B25B 13/06** (2006.01)  
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(54) **Titre : SUPPORT POUR OUTIL EN COMPOSITE**  
(54) **Title: COMPOSITE TOOL HOLDER**



(57) **Abrégé/Abstract:**

A composite tool holder has a base (10, 10B), a socket set (20, 20B), and a hand-tool set (30, 30B). The base (10, 10B) has a substrate (11, 11A, 11B) and a first-track (12, 12A, 12B). The first-track (12, 12A, 12B) has an upper-opening (121) and a sliding-slot (122, 122B). The socket set (20, 20B) is connected to the base (10, 10B) and has multiple positioning-blocks (22, 2B, 22C) slidably mounted in the sliding-slot (122, 122B) of the first-track (12, 12A, 12B). The hand-tool set (30, 30B) is connected to the base (10, 10B) and has at least one holding-component (31, 31B) deposited on the substrate (11, 11A).

1   **ABSTRACT**

2           A composite tool holder has a base (10, 10B), a socket set (20, 20B), and  
3   a hand-tool set (30, 30B). The base (10, 10B) has a substrate (11, 11A, 11B) and  
4   a first-track (12, 12A, 12B). The first-track (12, 12A, 12B) has an upper-opening  
5   (121) and a sliding-slot (122, 122B). The socket set (20, 20B) is connected to the  
6   base (10, 10B) and has multiple positioning-blocks (22, 2B, 22C) slidably  
7   mounted in the sliding-slot (122, 122B) of the first-track (12, 12A, 12B). The  
8   hand-tool set (30, 30B) is connected to the base (10, 10B) and has at least one  
9   holding-component (31, 31B) deposited on the substrate (11, 11A).

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## COMPOSITE TOOL HOLDER

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

The present invention relates to a holder, specifically to a composite tool holder capable of storing both hand tools and sleeves.

#### 2. Description of the Related Art

A conventional tool holder mainly has a base and multiple positioning-blocks movably mounted in the base. A sliding track is formed on a top surface of the base, and each one of the positioning-blocks has a sliding base formed on a bottom of the positioning-block for engaging with the sliding track. An inserting-portion is formed upward on a top surface of the sliding base of the positioning-block, and the inserting-portion can be a socket or a hanging rod. When the inserting-portion of each one of the positioning-blocks is the socket, the socket can be used for storing a sleeve. Furthermore, when the inserting-portion of each one of the positioning-blocks is the hanging rod, a hand tool such as a socket wrench can be hung on the hanging rod to store the hand tools.

However, a user mostly needs to use the sleeve and the hand tool at the same time to fasten or unfasten a fastener, such as a bolt or a nut, but the conventional tool holder cannot hold the sleeve and the hand tool at the same time. Oftentimes the user may forget to bring the sleeve or the hand tool, resulting in inconvenience. Moreover, when the user needs to use the sleeve and the hand tool at the same time, the conventional tool holder may cause inconvenience in carrying or storing the sleeve and the hand tool. Therefore, the

conventional tool holder needs to be improved.

### SUMMARY OF THE INVENTION

One aspect of the present invention provides a composite tool holder that may store both hand tools and sleeves.

5        According to another aspect of the invention, there is provided a composite tool holder comprising: a base having a substrate having a top surface; a bottom surface; two elongated sides; a length; and at least one slot formed through the top surface and the bottom surface of the substrate; and a first-track formed on one of the elongated sides of the substrate, and having a length being equal to the length of the substrate; a  
10   top surface; a bottom surface; an upper-opening formed through the top surface of the first-track; and a sliding-slot formed in the first-track and communicating with the upper-opening; a socket set connected to the base and having multiple positioning-blocks rotatably mounted in the first-track and moved along the first-track; and a hand-tool set connected to the base and having at least one holding-component deposited on  
15   the substrate and having a combining-portion mounted through one of the at least one slot of the substrate and having a positioning-protrusion formed on an outer surface of the combining-portion and abutting the substrate; and a holding-portion integrally formed on a top surface of the combining-portion and mounted above the substrate.

Other advantages and novel features of the invention will become more  
20   apparent from the following detailed description when taken in conjunction with the accompanying drawings.

**BRIEF DESCRIPTION OF THE DRAWINGS**

Fig. 1 is a perspective view of a first embodiment of a composite tool holder in accordance with the present invention;

Fig. 2 is an exploded perspective view of the composite tool holder in Fig. 1;

5 Fig. 3 is a further exploded view of the composite tool holder in Fig. 2;

Fig. 4 is a side view in partial section of the composite tool holder in Fig. 1;

Fig. 4A is a partial enlarged view of Fig. 4;

Fig. 5 is a top side view of the composite tool holder in Fig. 1;

10 Fig. 6 is an enlarged side view in partial section of the composite tool holder in Fig. 5 along line 6-6;

Fig. 7 is another enlarged side view in partial section of the composite tool holder in Fig. 1;

Fig. 8 is a perspective view of a second embodiment of a composite tool holder in accordance with the present invention;

15 Fig. 9 is an exploded perspective view of the composite tool holder in



1 Fig. 8;

2 Fig. 10 is a perspective view of a third embodiment of a composite tool  
3 holder in accordance with the present invention;

4 Fig. 11 is an exploded perspective view of the composite tool holder in  
5 Fig. 10;

6 Fig. 12 is a further exploded view of the composite tool holder in Fig.  
7 11;

8 Fig. 13 is another exploded view of the composite tool holder in Fig. 11;

9 Fig. 14 is a top side view of the composite tool holder in Fig. 10;

10 Fig. 15 is a side view in partial section of the composite tool holder in  
11 Fig. 14 along line 15-15;

12 Fig. 16 is an enlarged side view in partial section of the composite tool  
13 holder in Fig. 14 along line 16-16;

14 Fig. 17 is another enlarged side view in partial section of the composite  
15 tool holder in Fig. 10;

16 Figs. 17A and 17B are enlarged and cross sectional side views of the  
17 composite tool holder in Fig. 17;

18 Fig. 18 is a perspective view of a fourth embodiment of a composite tool  
19 holder in accordance with the present invention;

20 Fig. 19 is an exploded perspective view of the composite tool holder in  
21 Fig. 18;

22 Fig. 20 is a further exploded view of the composite tool holder in Fig.  
23 19;

24 Fig. 21 is a top side view of the composite tool holder in Fig. 18;

1            Fig. 22 is an enlarged side view in partial section of the composite tool  
2 holder in Fig. 21 along line 22-22;

3            Fig. 23 is an enlarged and operational perspective view of the composite  
4 tool holder in Fig. 18; and

5            Fig. 24 is a perspective view of a fifth embodiment of a composite tool  
6 holder in accordance with the present invention.

7    DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

8            With reference to Figs. 1 to 3, a first embodiment of a composite tool  
9 holder in accordance with the present invention has a base 10, a socket set 20, a  
10 hand-tool set 30, and a bracket set 40.

11           With reference to Figs. 2 to 4, the base 10 is an extruded aluminum  
12 structure and comprises a substrate 11, a first-track 12, a second-track 13, and  
13 two enclosed-tracks 14. The substrate 11 is a rectangular plate extending  
14 transversally and has a top surface, a bottom surface, two elongated sides, a  
15 length, at least one slot 111, at least one receiving-hole 112, and multiple  
16 assembling-holes 113. The at least one slot 111 is strip-shaped and is formed  
17 through the top surface and the bottom surface of the substrate 11. Furthermore,  
18 the substrate 11 has three slots 111 formed through the substrate at spaced  
19 intervals. The at least one receiving-hole 112 is formed through the top surface  
20 and the bottom surface of the substrate 11.

21           With reference to Figs. 4 and 4A, the first-track 12 is formed on one of  
22 the elongated sides of the substrate 11 and has a length, a top surface, a bottom  
23 surface, an upper-opening 121, and a sliding-slot 122. The length of the  
24 first-track 12 is equal to the length of the substrate 11. Additionally, a height is

1 formed between the first-track 12 and the substrate 11. The upper-opening 121 is  
2 formed through the top surface of the first-track 12. The sliding-slot 122 is  
3 formed in the first-track 12 and communicates with the upper-opening 121.  
4 Furthermore, the sliding-slot 122 has a width W1 wider than a width W2 of the  
5 upper-opening 121.

6 The second-track 13 is formed on the bottom surface of the first-track 12,  
7 and has a top-opening 131 and an engaging-slot 132. The top-opening 131 is  
8 formed through the bottom surface of the first-track 12 and communicates with  
9 the sliding-slot 122. The engaging-slot 132 is formed in the second-track 13 and  
10 communicates with the top-opening 131. Additionally, the top-opening 131 has a  
11 width W3 narrower than the width W1 of the sliding-slot 122, and the  
12 engaging-slot 132 has a width W4 wider than the width W3 of the top-opening  
13 131.

14 The enclosed-tracks 14 are respectively formed on the bottom surfaces  
15 of the substrate 11 and the first-track 12, and each one of the enclosed-tracks 14  
16 has a length equal to the length of the substrate 11 and the length of the first-track  
17 12. The enclosed-track 14 that is formed on the bottom surface of the substrate  
18 11 communicates with the at least one slot 111, and the enclosed-track 14 that is  
19 formed on the bottom surface of the first-track 12 is mounted around the  
20 second-track 13. Each one of the enclosed-tracks 14 has a bottom surface, a  
21 lower-opening 141, and an enclosed-slot 142. The lower-opening 141 is formed  
22 through the bottom surface of the enclosed-track 14. The enclosed-slot 142 is  
23 formed in the enclosed-track 14 and communicates with the lower-opening 141.  
24 Furthermore, the lower-opening 141 has a width W5 narrower than a width W6



1 of the enclosed-slot 142.

2 With reference to Figs. 2 and 3, the socket set 20 is connected to the base  
3 10 and has a positioning-plate 21 and multiple positioning-blocks 22. The  
4 positioning-plate 21 is a strip-shaped plate with resilience, is disposed in the  
5 engaging-slot 132 of the second-track 13, and has two long opposite sides, a  
6 middle, and an abutting-portion 211. The abutting-portion 211 is arc-shaped and  
7 is bent upwardly from the long opposite sides to the middle of the  
8 positioning-plate 21 and has a top surface extending into the sliding-slot 122 of  
9 the first-track 12.

10 Each one of the positioning-blocks 22 is rotatably and slidably mounted  
11 in the sliding-slot 122 of the first-track 12, abuts the positioning-plate 21, and  
12 has an engaging-portion 221 and an inserting-portion 222. The engaging-portion  
13 221 of the positioning-block 22 is mounted in the sliding-slot 122 of the  
14 first-track 12, abuts the abutting-portion 211 of the positioning-plate 21, and has  
15 a bottom surface and a top surface. Furthermore, the engaging-portion 221 of the  
16 positioning-block 22 may be a disk of a flattened structure or a stepped structure  
17 and may be rotated relative to the first-track 12. The inserting-portion 222 is  
18 formed on and protrudes from the top surface of the engaging-portion 221 and  
19 extends out of the first-track 12 via the upper-opening 121. The inserting-portion  
20 222 has an outer surface and a constraining-protrusion 223. The  
21 constraining-protrusion 223 is deposited on the outer surface of the  
22 inserting-portion 222, so that a sleeve may firmly engage with the  
23 inserting-portion 222 of the positioning-block 22.

24 With reference to Figs. 3, 5, and 6, the hand-tool set 30 is connected to the

1 base 10 and has at least one holding-component 31. Each one of the at least one  
2 holding-component 31 is connected to the substrate 11 and has a  
3 combining-portion 311 and a holding-portion 312. The combining-portion 311 is  
4 a plate and is mounted through one of the at least one slot 111 of the substrate 11.  
5 The combining-portion 311 has a positioning-protrusion 313 formed on an outer  
6 surface of the combining-portion 311 and abutting the substrate 11, so that the at  
7 least one holding-component 31 can be firmly mounted on the substrate 11. The  
8 holding-portion 312 is integrally formed on a top surface of the  
9 combining-portion 311 and is mounted above the substrate 11.

10 The holding-portion 312 is U-shaped with resilience, such that the at least  
11 one holding-component 31 can position a hand tool 50 on the substrate 11.  
12 Additionally, the holding-portion 312 of the holding-component 31 has two  
13 holding-protrusions 314 formed on an inner surface of the holding-portion 312  
14 respectively near two free ends of the holding-portion 312. Furthermore, an  
15 amount of the at least one holding-component 31 of the hand-tool set 30 and an  
16 amount of the at least one slot 111 of the substrate 11 are the same. A  
17 protrusion-head 51 of the hand tool 50 can extend to the bottom of the substrate  
18 11 through the receiving-hole 112 of the substrate 11, such that the hand tool 50  
19 can be positioned firmly on the substrate 11 by the at least one  
20 holding-component 31 and the receiving-hole 112.

21 With reference to Figs. 1, 2, and 7, the bracket set 40 is detachably  
22 connected to the base 10 beside the socket set 20, and has multiple fixing-plates  
23 41, two supporting-bases 42, and two magnetic-bases 43. Each one of the  
24 fixing-plates 41 is a rectangular plate and disposed in one of the enclosed-tracks

1 14 and near an end of the substrate 11 or an end of the first-track 12. Each one of  
2 the fixing-plates 41 has a fixing-hole 411 formed through the fixing-plate 41 and  
3 communicating with the lower-opening 141 of a corresponding enclosed-track  
4 14, so that a fixing-component 60 can be connected to the fixing-plate 41 via the  
5 lower-opening 141. The supporting-bases 42 are extruded aluminum structures  
6 and are respectively connected to two sides of the base 10, so as to enclose the  
7 first-track 12, the second-track 13, and the enclosed-tracks 14.

8 Each one of the supporting-bases 42 has an enclosed-plate 421, an  
9 extending-plate 422, and a connecting-track 423. The enclosed-plate 421 is  
10 disposed longitudinally and abuts one of the sides of the base 10, so as to enclose  
11 the first-track 12, the second-track 13, and the enclosed-tracks 14. Furthermore,  
12 each supporting-base 42 has a supporting-plate 424 transversally formed on a  
13 top of the enclosed-plate 421 and aligning to the substrate 11. Therefore, a user  
14 can lift the composite tool holder by holding the two supporting-plates 424.

15 The extending-plate 422 is transversally formed on and protrudes from the  
16 enclosed-plate 421 under the base 10, is opposite to the supporting-plate 424,  
17 and has two through-holes 425 formed through the extending-plate 422 at a  
18 spaced interval, so that two fixing-components 60 may be respectively mounted  
19 through the through-holes 425 and respectively connected to the fixing-holes  
20 411 of the fixing-plates 41 that are mounted at a same side of the base 10. Then,  
21 the supporting-base 42 can be disposed on the side of the base 10 by the  
22 engagement of the two fixing-components 60 and the two corresponding  
23 fixing-plates 41. The connecting-track 423 is formed downwardly on a bottom of  
24 the extending-plate 422 away from the enclosed-plate 421. Furthermore, a gap G

1 is formed between the connecting-track 423 and the base 10.

2 The magnetic-bases 43 are respectively connected to the supporting-bases  
3 42 under the base 10, and each one of the magnetic-bases 43 has a  
4 combining-frame 431 and at least one magnetic-block 432. The  
5 combining-frame 431 is U-shaped and is securely mounted in the  
6 connecting-track 423 of the supporting-base 42. Furthermore, a fastening  
7 component 70 is mounted through the combining-frame 431 and the  
8 connecting-track 423 to connect the combining-frame 431 with the  
9 connecting-track 423. The at least one magnetic-block 432 is securely mounted  
10 on a bottom of the combining-frame 431 opposite to the connecting-track 423 to  
11 provide an attaching effect to metal objects, so that the composite tool holder  
12 may be mounted on a tool cabinet by the magnetic-bases 43.

13 With reference to Figs. 1 and 4, when the first embodiment in accordance  
14 with the present invention is in use, the user can mount a sleeve around the  
15 inserting-portion 222 of one of the positioning-blocks 22, and the sleeve can be  
16 firmly disposed on the positioning-block 22 by the constraining-protrusion 223.  
17 The user can apply a force to the sleeve to drive the positioning-block 22 to  
18 rotate relative to the positioning-plate 21, so that a size mark on an outer surface  
19 of the sleeve is rotated to face the user for ease of retrieving and identifying the  
20 sleeve. The engaging-portion 221 of each positioning-block 22 abuts the  
21 abutting-portion 211 of the positioning-plate 21, so that after the user rotates or  
22 slides the sleeve, the positioning-block 22 and the positioning-plate 21 abut each  
23 other and are firmly disposed in the first-track 12. Therefore, the sleeve on the  
24 positioning-block 22 does not rotate or slide relative to the first-track 12. That is,



1 the sleeve can be firmly disposed on the base 10.

2 With further reference to Figs. 3, 4, and 6, the user can position the hand  
3 tool 50 on the substrate 11 by the two holding-protrusions 314 of the  
4 holding-component 31 of the hand-tool set 30, and the hand tool 50 can  
5 cooperate with the sleeve mounted on the positioning-block 22. The hand tool 50  
6 includes the protrusion-head 51 extending to the bottom of the substrate 11 via  
7 the receiving-hole 112 of the substrate 11. In addition, the hand tool 50 can be  
8 positioned on the substrate 11 by the holding-component 31 and the  
9 receiving-hole 112. Furthermore, with reference to Figs. 1 and 2, after the sleeve  
10 and the hand tool 50 are positioned on the base 10 by the socket set 20 and the  
11 hand-tool set 30, the sleeve and the hand tool 50 disposed on the base 10 can be  
12 securely mounted on the tool cabinet by a magnetic force that is provided by the  
13 magnetic-bases 43 of the bracket set 40. The sleeve and the hand tool 50 can be  
14 stored at the same time to facilitate convenience in use and prevent the user from  
15 forgetting to bring the sleeve or the hand tool 50.

16 With reference to Figs. 8 and 9, a second embodiment of a composite tool  
17 holder in accordance with the present invention is substantially the same as the  
18 first embodiment except for the following features. The first-track 12A and the  
19 substrate 11A are formed with each other at a same horizontal level, so there is  
20 no height formed between the first-track 12A and the substrate 11A.

21 With reference to Figs. 10 to 13, a third embodiment of a composite tool  
22 holder in accordance with the present invention is substantially the same as the  
23 first embodiment except for the following features. The substrate 11B of the base  
24 10B does not have the least one slot 111 that is disclosed in the first embodiment



1 of the composite tool holder in accordance with the present invention. The  
2 substrate 11B has a receiving-hole 112B and multiple assembling-holes 113B  
3 formed through the top surface and the bottom surface of the substrate 11B at  
4 spaced intervals. With reference to Figs. 11 and 13, the first-track 12B is  
5 detachably connected to one of the elongated sides of the substrate 11B by a  
6 hooking structure between the substrate 11B and the first-track 12B, and the  
7 length of the first-track 12B is equal to the length of the substrate 11B.

8 With reference to Figs. 11, 13, and 16, one of the enclosed-tracks 14B is  
9 formed downwardly on the bottom surface of the substrate 11B along one of the  
10 two elongated sides that is opposite to the first-track 12B, and communicates  
11 with some of the assembling-holes 113B. The other one of the enclosed-tracks  
12 14B is formed downwardly on the bottom surface of the first-track 12B around  
13 the second-track 13B. The enclosed-tracks 14B have lengths equal to the lengths  
14 of the substrate 11B and the first-track 12B.

15 With reference to Figs. 11, 13, 16, and 17, the socket set 20B is  
16 connected to the base 10B and has multiple engaging recesses 212B being  
17 curved and formed in the top surface of the abutting-portion 211B at spaced  
18 intervals. Each one of the positioning-blocks 22B is rotatably and slidably  
19 mounted in the sliding-slot 122B of the first-track 12B and has an engaging  
20 element 224B formed on and protruding downwardly from the bottom surface of  
21 the engaging-portion 221B and selectively engages with one of the engaging  
22 recesses 212B of the positioning-plate 21B to hold the positioning-block 22B  
23 securely on the positioning-plate 21B without sliding relative to the first-track  
24 12B. Additionally, the engaging element 224B is an engaging ring.

1           With reference to Figs. 17, 17A, and 17B, when each one of the  
2   positioning-blocks 22B is mounted on the positioning-plate 21B, a part of the  
3   engaging ring engages in one of the engaging recesses 212B and the remaining  
4   part of the engaging ring presses against the top surface of the abutting-portion  
5   211B. Then, the abutment relationship between the engaging ring and the  
6   positioning-plate 21B may allow the part of the engaging ring to engage more  
7   securely in the corresponding engaging recess 212B, and the positioning-block  
8   22B may be securely positioned on the base 10B by the positioning-plate 21B.

9           With reference to Figs. 11, 12, 14, and 15, the hand-tool set 30B is  
10   detachably connected to the base 10B, the at least one holding-component 31B is  
11   deposited on the substrate 11B. Furthermore, the hand-tool set 30B has a  
12   mounting-cover 32B detachably mounted on the substrate 11B, and the  
13   mounting-cover 32B may be U-shaped and has a top surface, a bottom surface, at  
14   least one mounting-hole 321B, and multiple inserting-tubes 322B. The at least  
15   one mounting-hole 321B is formed through the top surface and the bottom  
16   surface of the mounting-cover 32B and aligns with the at least one  
17   receiving-hole 112B of the substrate 11B. The inserting-tubes 322B are formed  
18   on and protrude downwardly from the bottom surface of the mounting-cover  
19   32B at spaced intervals, and are respectively mounted into the assembling-holes  
20   113B of the substrate 11B when the bottom surface of the mounting-cover 32B  
21   abuts the top surface of the substrate 11B. Additionally, the mounting-cover 32B  
22   has multiple washers 323B respectively mounted around the inserting-tubes  
23   322B that extend through the substrate 11B, and multiple fasteners 324B are  
24   respectively connected to the inserting-tubes 322B and are pressed against the

1 washers 323B. Then, the mounting-cover 32B is securely mounted on the  
2 substrate 11B.

3 Furthermore, each one of the at least one holding-component 31B is  
4 formed on the top surface of the mounting-cover 32B and has a  
5 combining-portion 311B and a holding-portion 312B. The combining-portion  
6 311B is formed on the top surface of the mounting-cover 32B and has a top  
7 surface. The holding-portion 312B is U-shaped, is integrally formed on the top  
8 surface of the combining-portion 311B, and is disposed above the  
9 mounting-cover 32B. Then, the hand tool 50 may be securely mounted on the  
10 mounting-cover 32B over the substrate 11B by the holding-portion 312B of the  
11 at least one holding-component 31B. With reference to Figs. 12 and 15, the  
12 protrusion-head 51 of the hand tool 50 may extend through the substrate 11B via  
13 the at least one mounting-hole 321B and the at least one receiving-hole 112B,  
14 such that the hand tool 50 may be positioned firmly on the mounting-cover 32B  
15 over the substrate 11B by the at least one holding-component 31B, the at least  
16 one mounting-hole 321B, and the at least one receiving-hole 112B.

17 With reference to Figs. 11, 15, and 16, the bracket set 40B is detachably  
18 connected to the base 10B beside the socket set 20B, and does not have the  
19 magnetic-bases 43 that are disclosed in the first embodiment of the composite  
20 tool holder in accordance with the present invention. Each one of the  
21 fixing-plates 41B is a rectangular plate and is disposed in one of the  
22 enclosed-tracks 14B and near an end of the substrate 11B or an end of the  
23 first-track 12B. Each one of the supporting-bases 42 does not have the  
24 connecting-track 423 that is disclosed in the first embodiment of the composite

1 tool holder in accordance with the present invention.

2           With reference to Figs. 10, 16, and 17, when the third embodiment of the  
3 invention is in use, the user can mount a sleeve on one of the positioning-blocks  
4 22B of the socket set 20B, and the user can apply a force to the sleeve to drive the  
5 positioning-block 22B to rotate relative to the positioning-plate 21B, so that a  
6 size mark on an outer surface of the sleeve is rotated to face the user for ease of  
7 retrieving and identifying the sleeve. In addition, the engaging-portion 221B of  
8 each one of the positioning-blocks 22B abuts the abutting-portion 211B of the  
9 positioning-plate 21B, and the engaging element 224B of each one of the  
10 positioning-blocks 22B engages with one of the engaging recesses 212B of the  
11 positioning-plate 21B to hold the positioning-block 22B securely on the  
12 positioning-plate 21B without sliding relative to the first-track 12B. After the  
13 user rotates or slides the sleeve, the positioning-block 22B and the  
14 positioning-plate 21B abut each other and are firmly disposed in the first-track  
15 12B by the engagement between the engaging element 224B and a  
16 corresponding engaging recess 212B. Therefore, the sleeve on the  
17 positioning-block 22B does not rotate or slide relative to the first-track 12B. That  
18 is, the sleeve can be firmly disposed on the base 10B.

19           With reference to Figs. 10, 12, 14, and 15, the user can position the hand  
20 tool 50 on the mounting-cover 32B over the substrate 11B by the at least one  
21 holding-component 31B of the hand-tool set 30B, and the hand tool 50 can  
22 cooperate with the sleeve mounted on the positioning-block 22B. The hand tool  
23 50 has a protrusion-head 51B extending to the bottom surface of the substrate  
24 11B via the at least one mounting-hole 321B of the mounting-cover 32B and the



1 at least one receiving-hole 112B of the substrate 11B. In addition, the hand tool  
2 50 can be positioned on the mounting-cover 32B over the substrate 11B by the at  
3 least one holding-component 31B, the at least one mounting-hole 321B, and the  
4 at least one receiving-hole 112B. Furthermore, after the sleeve and the hand tool  
5 50 are positioned on the base 10B by the socket set 20B and the hand-tool set  
6 30B, the sleeve and the hand tool 50 disposed on the base 10B can be stored at  
7 the same time to facilitate convenience in use and prevent the user from  
8 forgetting to bring the sleeve or the hand tool 50.

9 With reference to Figs. 18 to 22, a fourth embodiment of a composite  
10 tool holder in accordance with the present invention is substantially the same as  
11 the third embodiment except for the following features. The composite tool  
12 holder further has an auxiliary first-track 12C, an auxiliary second-track 13C,  
13 and an auxiliary socket set 20C. The auxiliary first-track 12C is detachably  
14 connected to one of the elongated sides of the substrate 11B by a hooking  
15 structure between the substrate 11B and the auxiliary first-track 12C, and is  
16 opposite to the first-track 12B. That is, the first-track 12B and the auxiliary  
17 first-track 12C are respectively connected to the two elongated sides of the  
18 substrate 11B. The auxiliary second-track 13C is formed on the auxiliary  
19 first-track 12C. In addition, the structures of the auxiliary first-track 12C and the  
20 auxiliary second-track 13C are substantially the same as the first-track 12B and  
21 the second-track 13B. Furthermore, the two enclosed-tracks 14B are respectively  
22 formed downwardly on the first-track 12B and the auxiliary first-track 12C  
23 respectively around the second-track 13B and the auxiliary second-track 13C.

24 The auxiliary socket set 20C is connected to the auxiliary first-track 12C



1 and the auxiliary second-track 13C, and has a positioning-plate 21C and multiple  
2 positioning-blocks 22C. The positioning-plate 21C of the auxiliary socket set  
3 20C is mounted in the auxiliary second-track 13C, and each one of the engaging  
4 recesses 212C is elongated and is formed in the top surface of the  
5 abutting-portion 211C at spaced intervals.

6 The positioning-blocks 22C are un-rotatably and slidably mounted in the  
7 auxiliary first-track 12C and abut the positioning-plate 21C, and each one of the  
8 positioning-blocks 22C has an engaging-portion 221C and an inserting-portion  
9 222C. The engaging-portion 221C is rectangular, is mounted in the auxiliary  
10 first-track 12C, and abuts the abutting-portion 211C of the positioning-plate 21C.  
11 The engaging element 224C of the engaging-portion 221C is an elongated  
12 engaging rib, and selectively engages with one of the engaging recesses 212C of  
13 the positioning-plate 21C to hold the positioning-block 22C securely on the  
14 positioning-plate 21C without sliding relative to the auxiliary first-track 12C.

15 Furthermore, the length of each one of the supporting-bases 42C is long  
16 enough to enclose the first-track 12B, the auxiliary first-track 12C, the  
17 second-track 13B, the auxiliary second-track 13C, and the enclosed-tracks 14B.

18 With reference to Figs. 22 and 23, when the composite tool holder of the  
19 fourth embodiment in the present invention is in use, sleeves 80 may be mounted  
20 on the positioning-blocks 22B, 22C of the socket set 20B and the auxiliary  
21 socket set 20C, since the engaging-portions 221B of the socket set 20B are  
22 circular plates, and the sleeves 80 that are mounted around the  
23 positioning-blocks 22B of the socket set 20B may be rotated and slid relative to  
24 the first-track 12B. Furthermore, since the engaging-portions 221C of the

1 auxiliary socket set 20C are rectangular, the sleeves 80 that are mounted around  
2 the positioning-blocks 22C of the auxiliary socket set 20C can only slide relative  
3 to the auxiliary first-track 12C without rotating.

4           With reference to Fig. 24, a fifth embodiment of a composite tool  
5 holder in accordance with the present invention is substantially the same as the  
6 fourth embodiment except for the following features. The composite tool holder  
7 further has an extending first-track 12D, an extending second-track 13D, and an  
8 additional socket set 20D. The extending first-track 12D is connected to and  
9 parallel with the first-track 12B by an extending panel 15D, the extending  
10 second-track 13D is formed on the extending first-track 12D, and the additional  
11 socket set 20D is connected to the extending first-track 12D and the extending  
12 second-track 13D. Furthermore, the structures of the extending first-track 12D,  
13 the extending second-track 13D, and the additional socket set 20D are  
14 respectively and substantially the same as the first-track 12B, the second-track  
15 13B, and the socket set 20B. With the increasing structures of the extending  
16 first-track base 12D, the extending second-track 13D, and the additional socket  
17 set 20D, the composite tool holder may store more sleeves 80 on the composite  
18 tool holder.

19           By the above technical features, the composite tool holder of the  
20 invention allows the user to fix and store the sleeves 80 and the hand tools 50 on  
21 the base 10, 10B at the same time by disposing the socket set 20, 20B and the  
22 hand-tool set 30, 30B. Therefore, it allows the user to use or store the sleeves 80  
23 and the hand tools 50 at the same time and prevents the user from forgetting to  
24 bring the sleeves 80 or the hand tools 50. In addition, the structural strength can

1 be enhanced by the bracket sets 40, 40B disposed on two sides of the base 10,  
2 10B, and the user can carry the composite tool holder by holding the two  
3 supporting-plates 424. The invention provides the composite tool holder to store  
4 the sleeves 80 and the hand tool 50 at the same time, and this is convenient in use.  
5 Additionally, the base 10 can be securely mounted on the tool cabinet by a  
6 magnetic force that is provided by the magnetic-bases 43 of the bracket set 40.  
7 Furthermore, the socket set 20B, the auxiliary socket set 20C, the additional  
8 socket set 20D, and the hand-tool set 30B are deposited on the base 10B, and the  
9 user can store the sleeves 80 and the hand tools 50 on the base 10, 10B at the  
10 same time, and this is convenient in use.

11

1   **WHAT IS CLAIMED IS:**

- 2           1. A composite tool holder comprising:
- 3           a base having
- 4                 a substrate having
- 5                     a top surface;
- 6                     a bottom surface;
- 7                     two elongated sides;
- 8                     a length; and
- 9                     at least one slot formed through the top surface and
- 10   the bottom surface of the substrate; and
- 11                 a first-track formed on one of the elongated sides of the
- 12   substrate, and having
- 13                     a length being equal to the length of the substrate;
- 14                     a top surface;
- 15                     a bottom surface;
- 16                     an upper-opening formed through the top surface of
- 17   the first-track; and
- 18                     a sliding-slot formed in the first-track and
- 19   communicating with the upper-opening;
- 20           a socket set connected to the base and having multiple
- 21   positioning-blocks rotatably mounted in the first-track and moved along the
- 22   first-track; and
- 23           a hand-tool set connected to the base and having
- 24                 at least one holding-component deposited on the substrate and

1 having

2 a combining-portion mounted through one of the at  
3 least one slot of the substrate and having a positioning-protrusion formed on an  
4 outer surface of the combining-portion and abutting the substrate; and

5 a holding-portion integrally formed on a top surface  
6 of the combining-portion and mounted above the substrate.

7 2. The composite tool holder as claimed in claim 1, wherein

8 the base has a second-track formed on the bottom surface of the  
9 first-track, and the second-track has

10 a top-opening formed through the bottom surface of the  
11 first-track and communicating with the sliding-slot; and

12 an engaging-slot formed in the second-track and  
13 communicating with the top-opening; and

14 the socket set has a positioning-plate disposed in the engaging-slot of the  
15 second-track and having

16 two long opposite sides;

17 a middle; and

18 an abutting-portion being arc-shaped, being bent upwardly  
19 from the long opposite sides to the middle of the positioning-plate and having a  
20 top surface extending into the sliding-slot of the first-track to abut against the  
21 positioning-blocks.

22 3. The composite tool holder as claimed in claim 2, wherein

23 the base has two enclosed-tracks respectively formed on the bottom  
24 surfaces of the substrate and the first-track, the enclosed-track that is formed on



1 the bottom surface of the substrate communicates with the at least one slot, and  
2 the enclosed-track that is formed on the bottom surface of the first-track is  
3 mounted around the second-track; and  
4 each one of the enclosed-tracks has  
5 a length being equal to the length of the substrate and the  
6 length of the first-track;  
7 a bottom surface;  
8 a lower-opening formed through the bottom surface of the  
9 enclosed-track; and  
10 an enclosed-slot formed in the enclosed-track and  
11 communicating with the lower-opening.

12 4. The composite tool holder as claimed in claim 3, wherein  
13 the composite tool holder has a bracket set detachably connected to the  
14 base beside the socket set; and  
15 the bracket set has  
16 multiple fixing-plates disposed in one of the enclosed-tracks  
17 and near an end of the substrate or an end of the first-track, and each one of the  
18 fixing-plates having  
19 a fixing-hole formed through the fixing-plate and  
20 communicating with the lower-opening of a corresponding enclosed-track; and  
21 a fixing-component connected to the fixing-plate via  
22 the lower-opening; and  
23 two supporting-bases respectively connected to two sides of  
24 the base to enclose the first-track, the second-track, and the enclosed-tracks.

1           5. The composite tool holder as claimed in claim 4, wherein  
2           each one of the supporting-bases has  
3                 an enclosed-plate disposed longitudinally and abutting one of  
4   the sides of the base;  
5                 a supporting-plate transversally formed on a top of the  
6   enclosed-plate and aligning to the substrate;  
7                 an extending-plate transversally formed on and protruding  
8   from the enclosed-plate under the base, being opposite to the supporting-plate,  
9   and having two through-holes formed through the extending-plate at a spaced  
10   interval to enable the fixing-components to respectively mount through the  
11   through-holes and respectively connect to the fixing-holes of the fixing-plates  
12   that are mounted at a same side of the base; and  
13                 a connecting-track formed downwardly on a bottom of the  
14   extending-plate away from the enclosed-plate; and  
15           the bracket set has two magnetic-bases respectively connected to the  
16   supporting-bases under the base, and each one of the magnetic-bases has  
17                 a combining-frame securely mounted in the connecting-track  
18   of one of the supporting-bases;  
19                 a fastening component mounted through the combining-frame  
20   and the connecting-track to connect the combining-frame with the  
21   connecting-track; and  
22                 at least one magnetic-block securely mounted on a bottom of  
23   the combining-frame opposite to the connecting-track.  
24

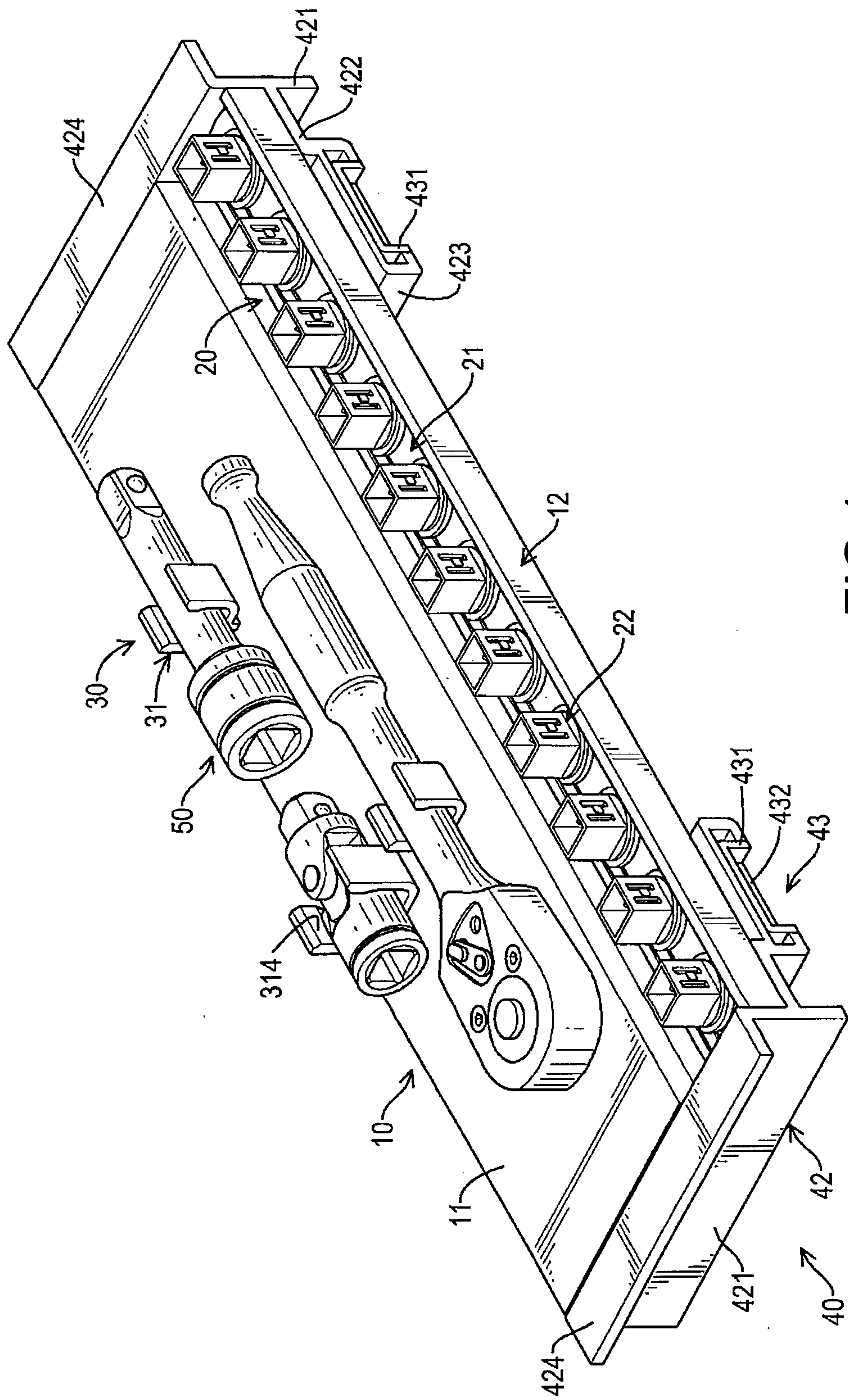
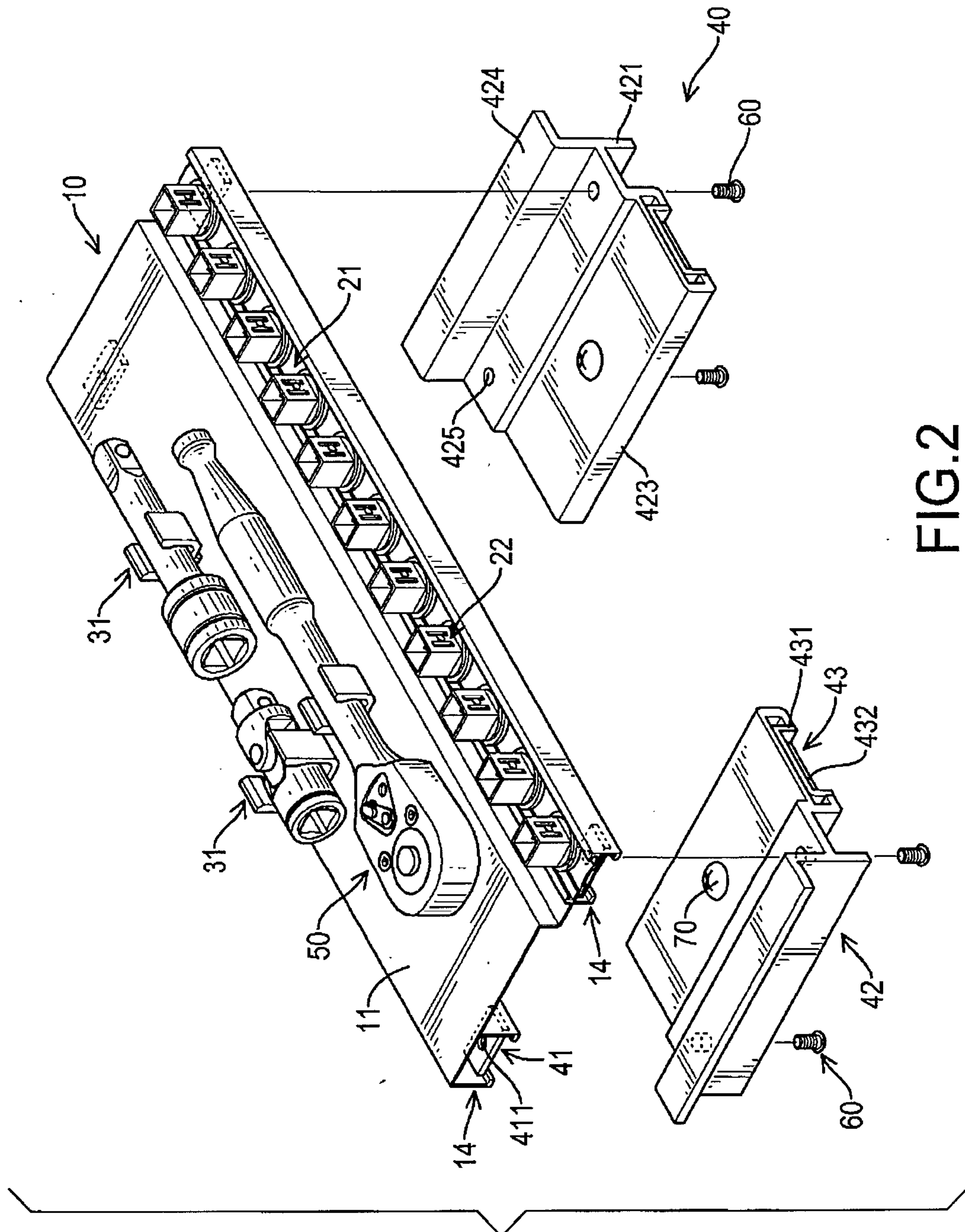
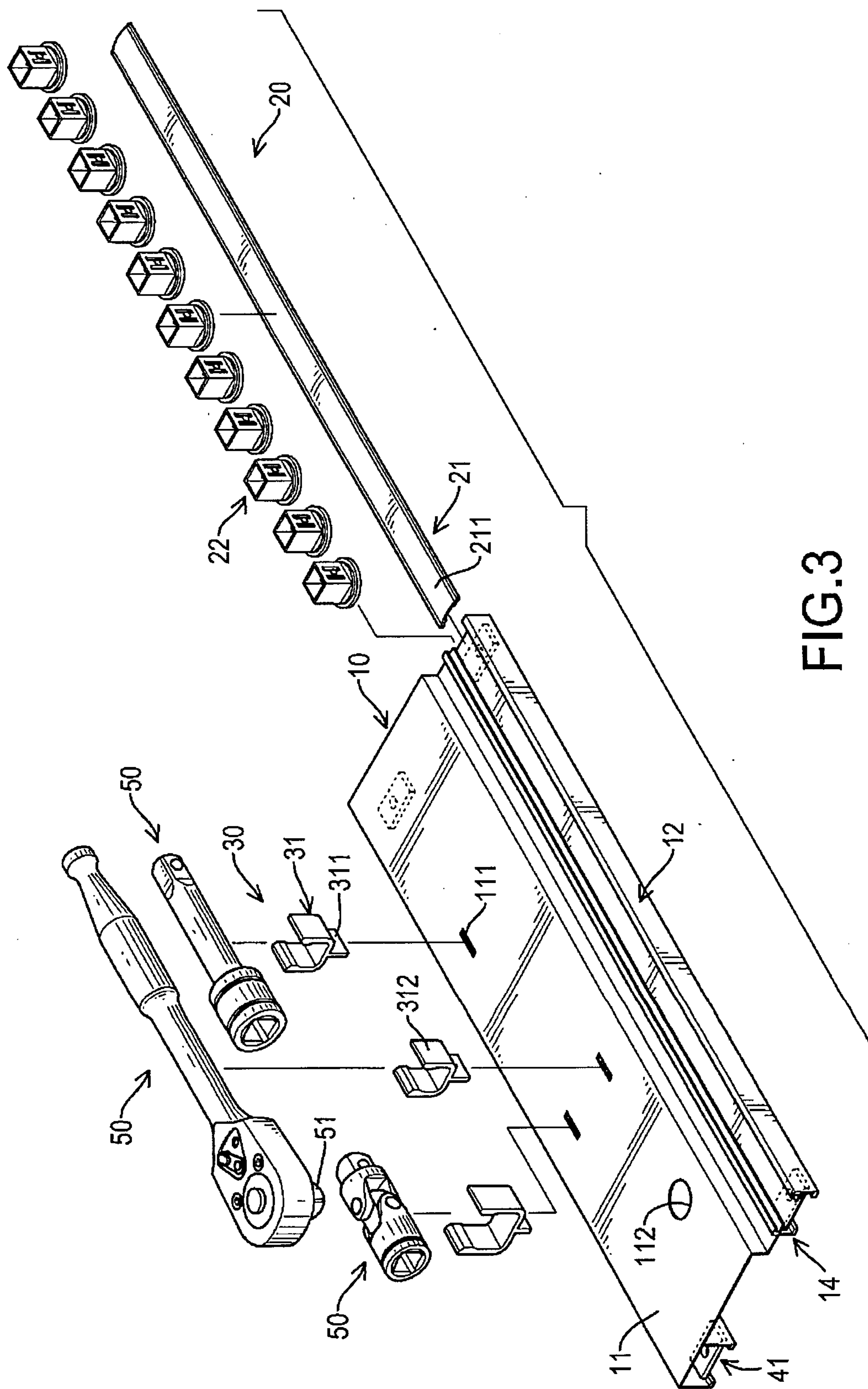


FIG. 1







### FIG. 3



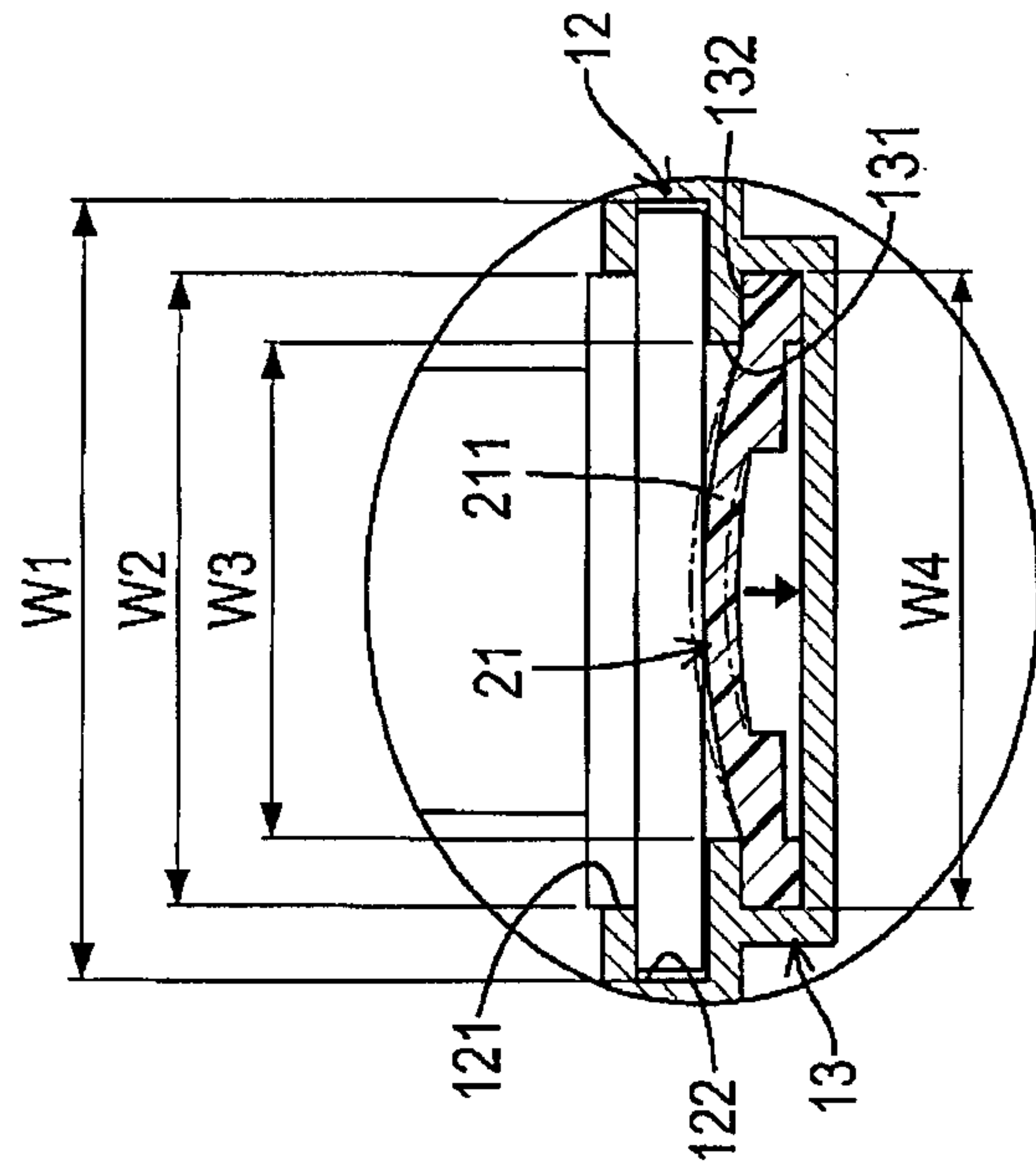


FIG. 4A

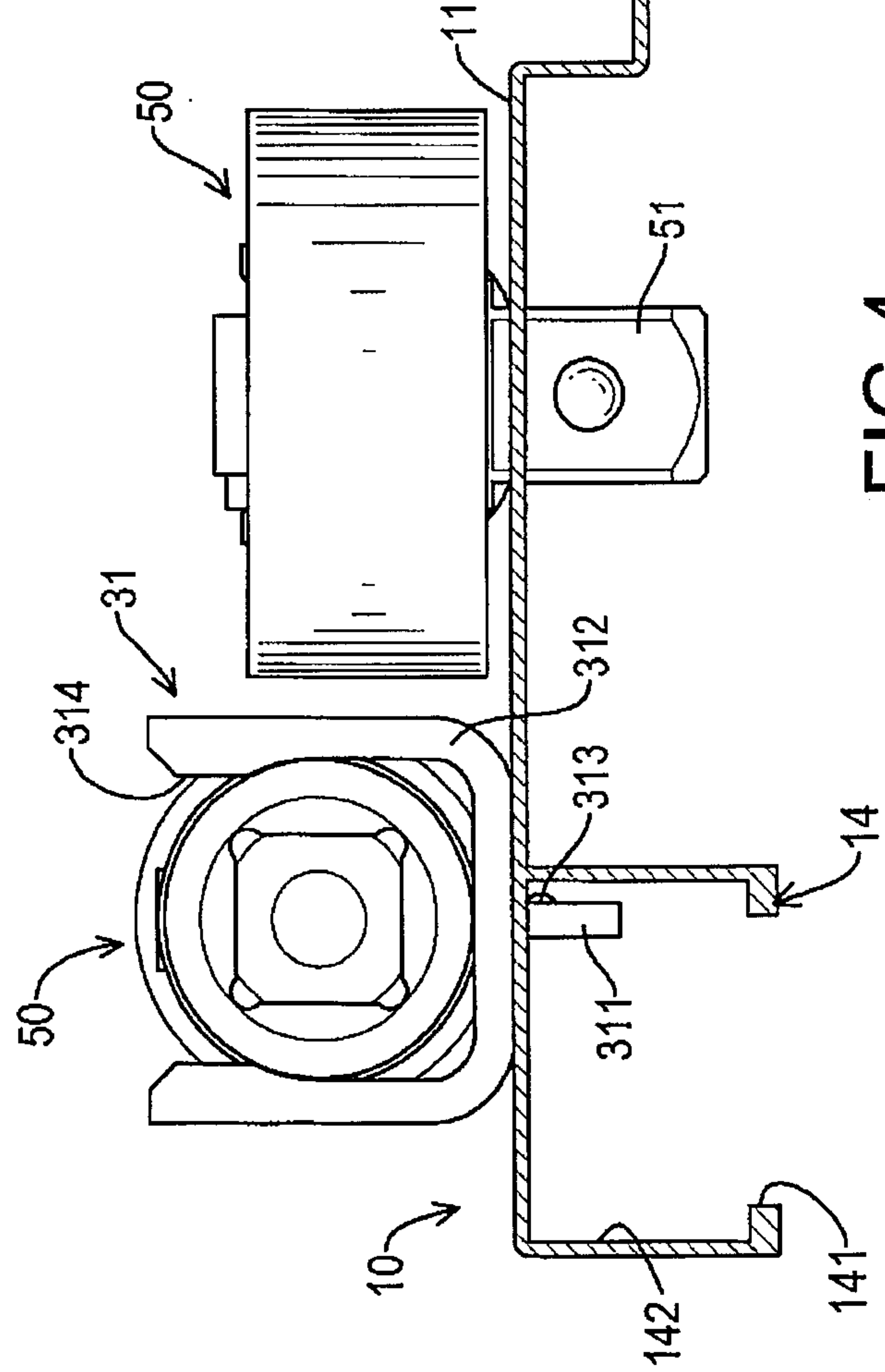
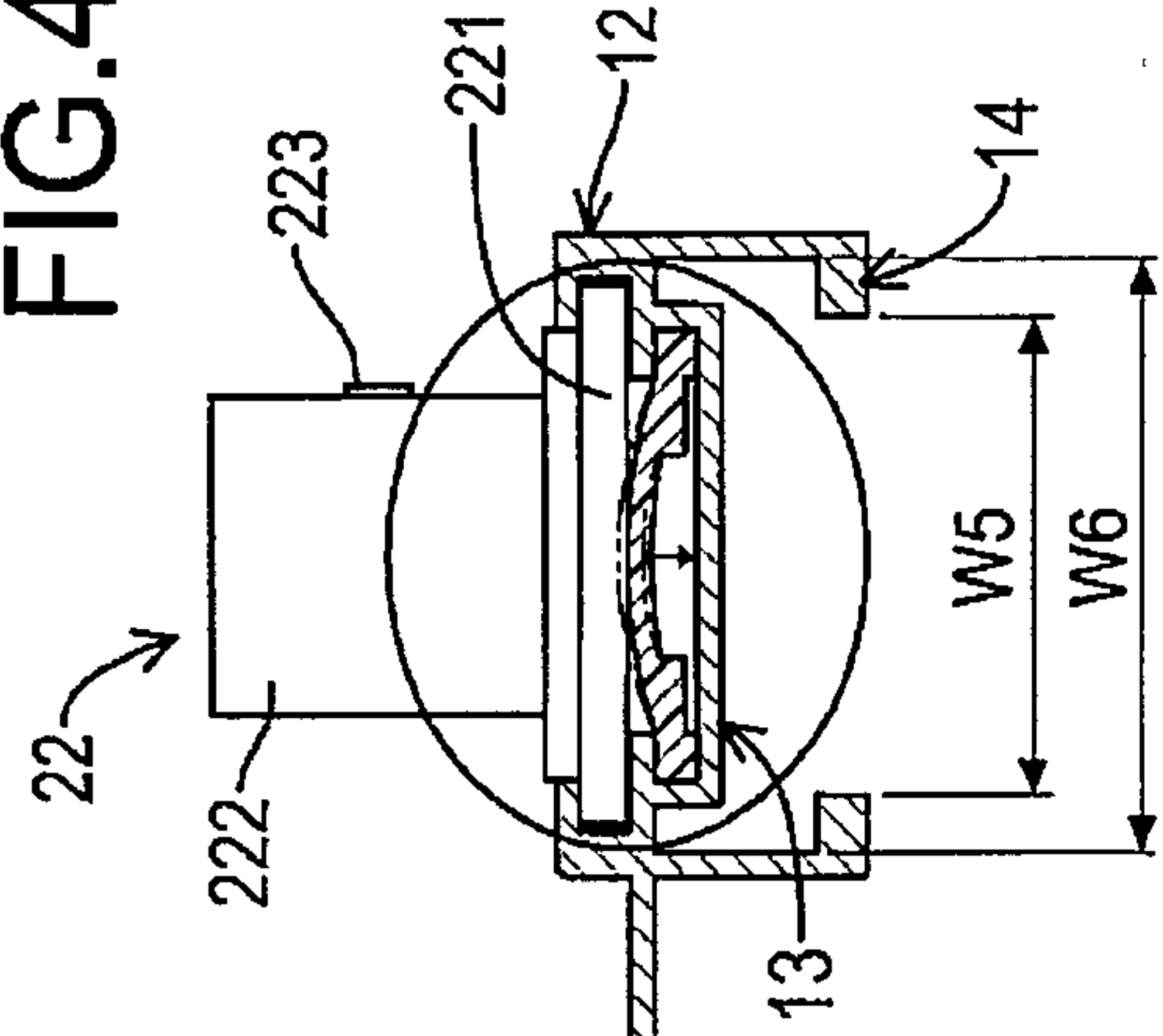


FIG. 4

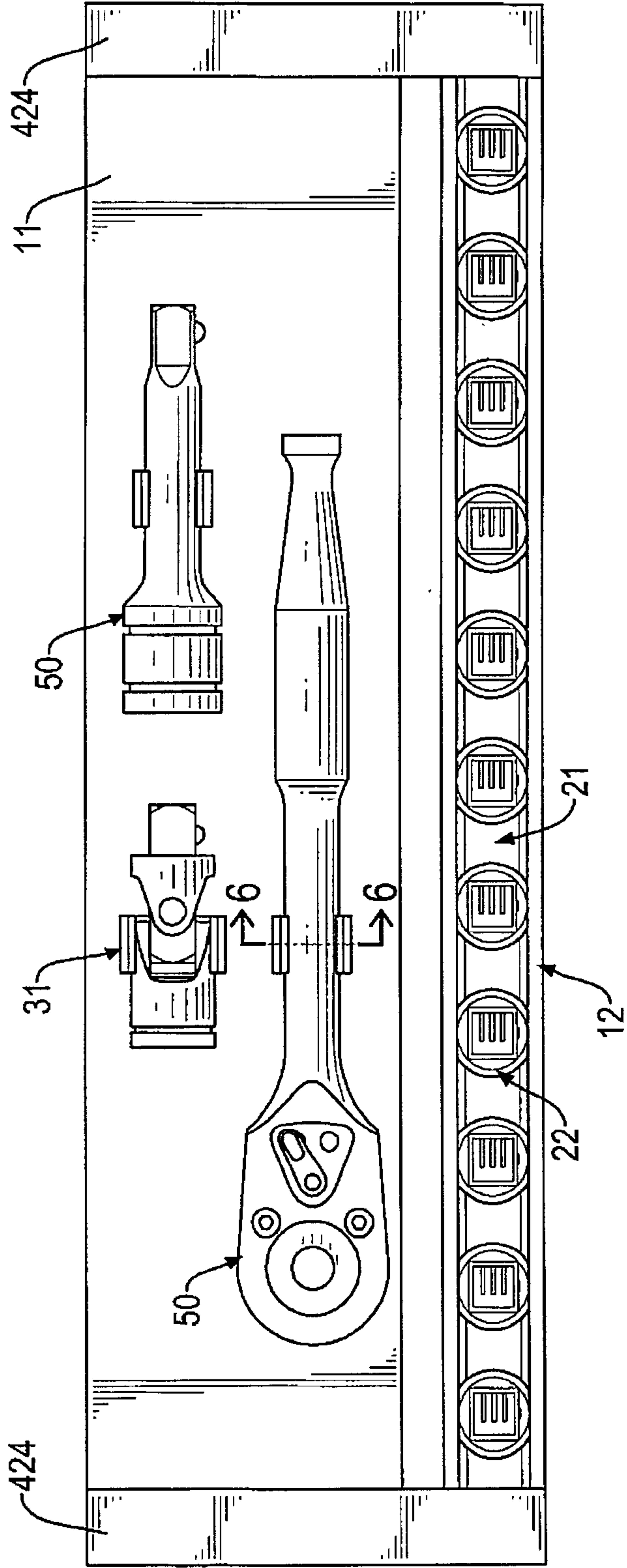


FIG.5

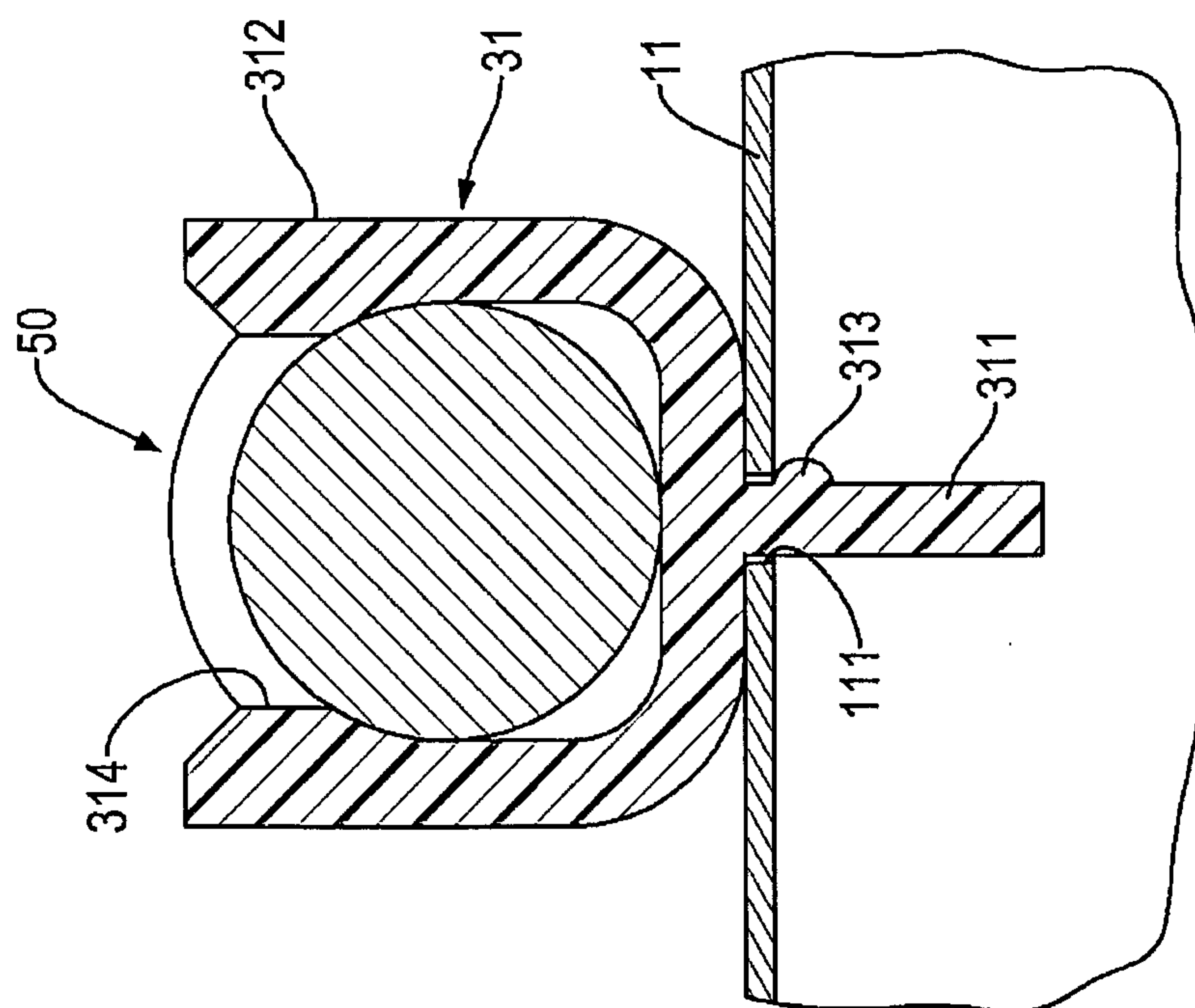


FIG.6

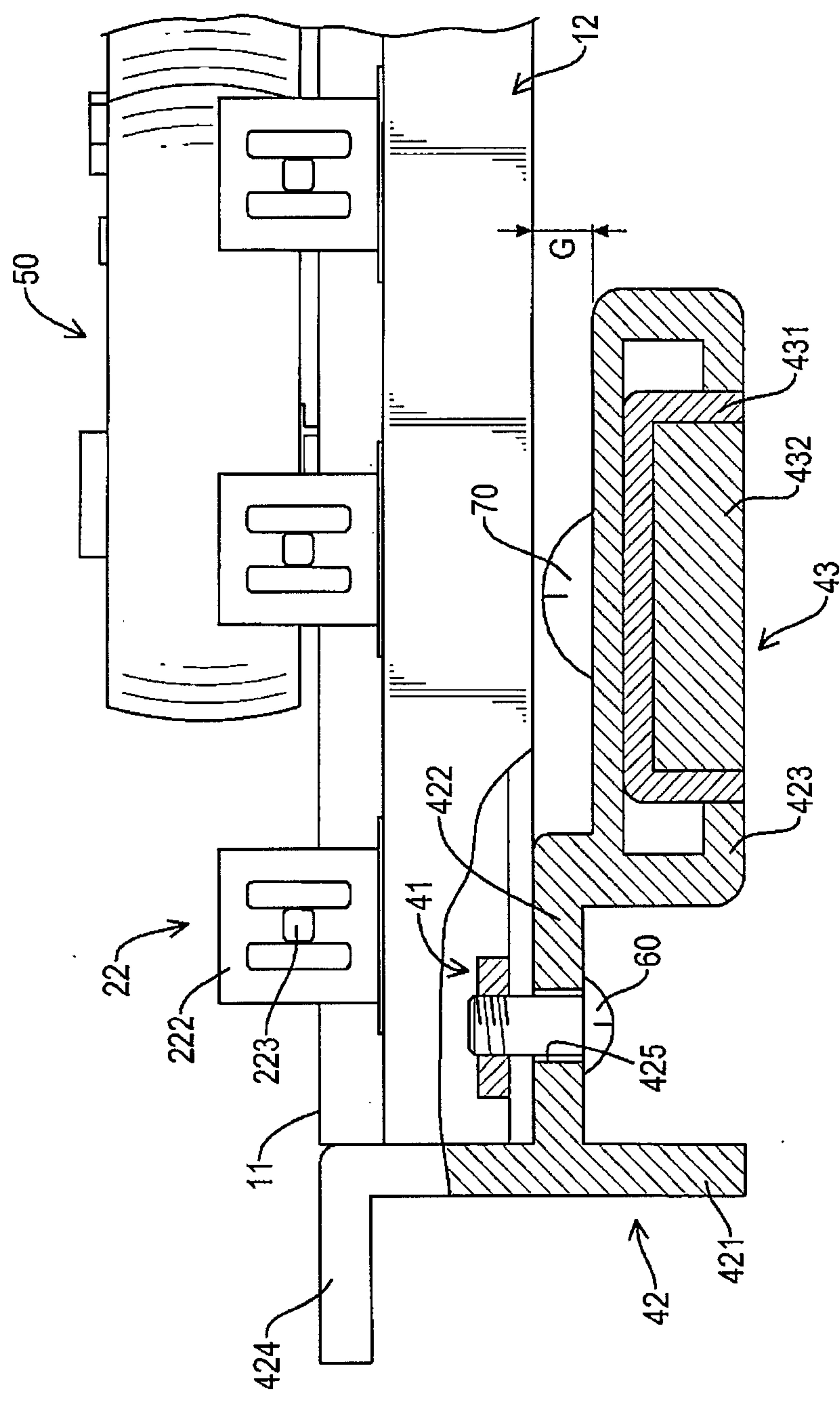


FIG. 7

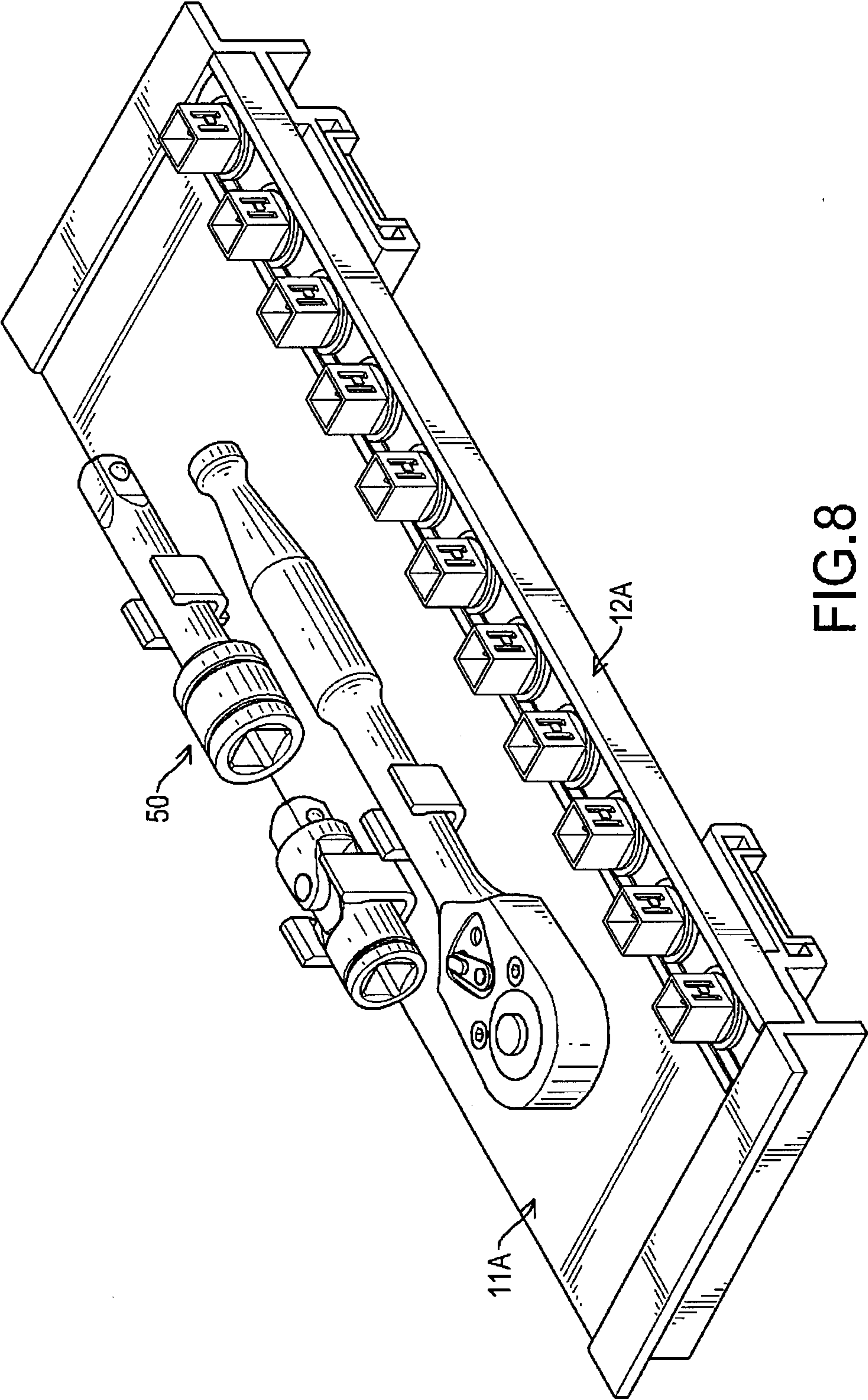


FIG.8



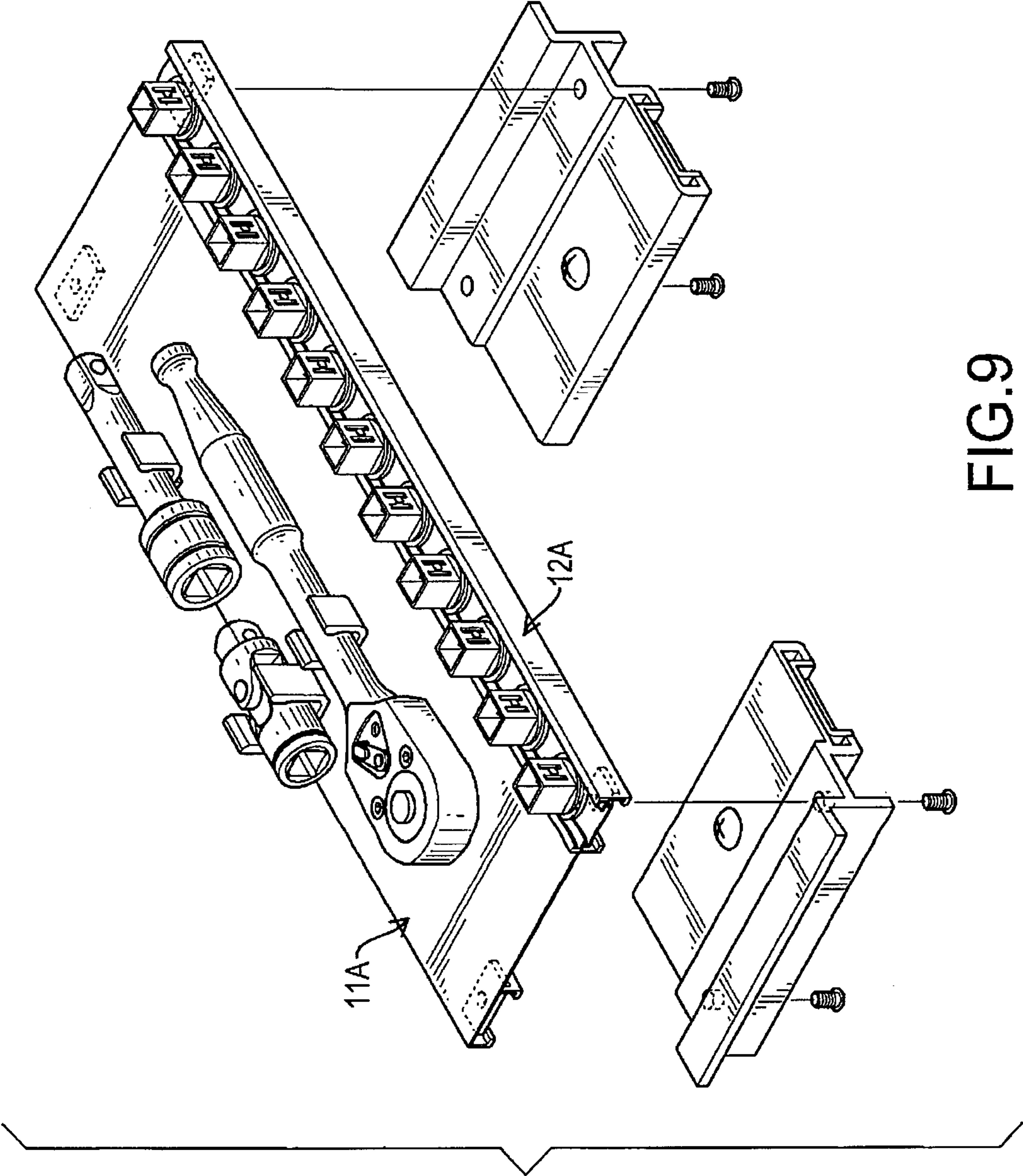
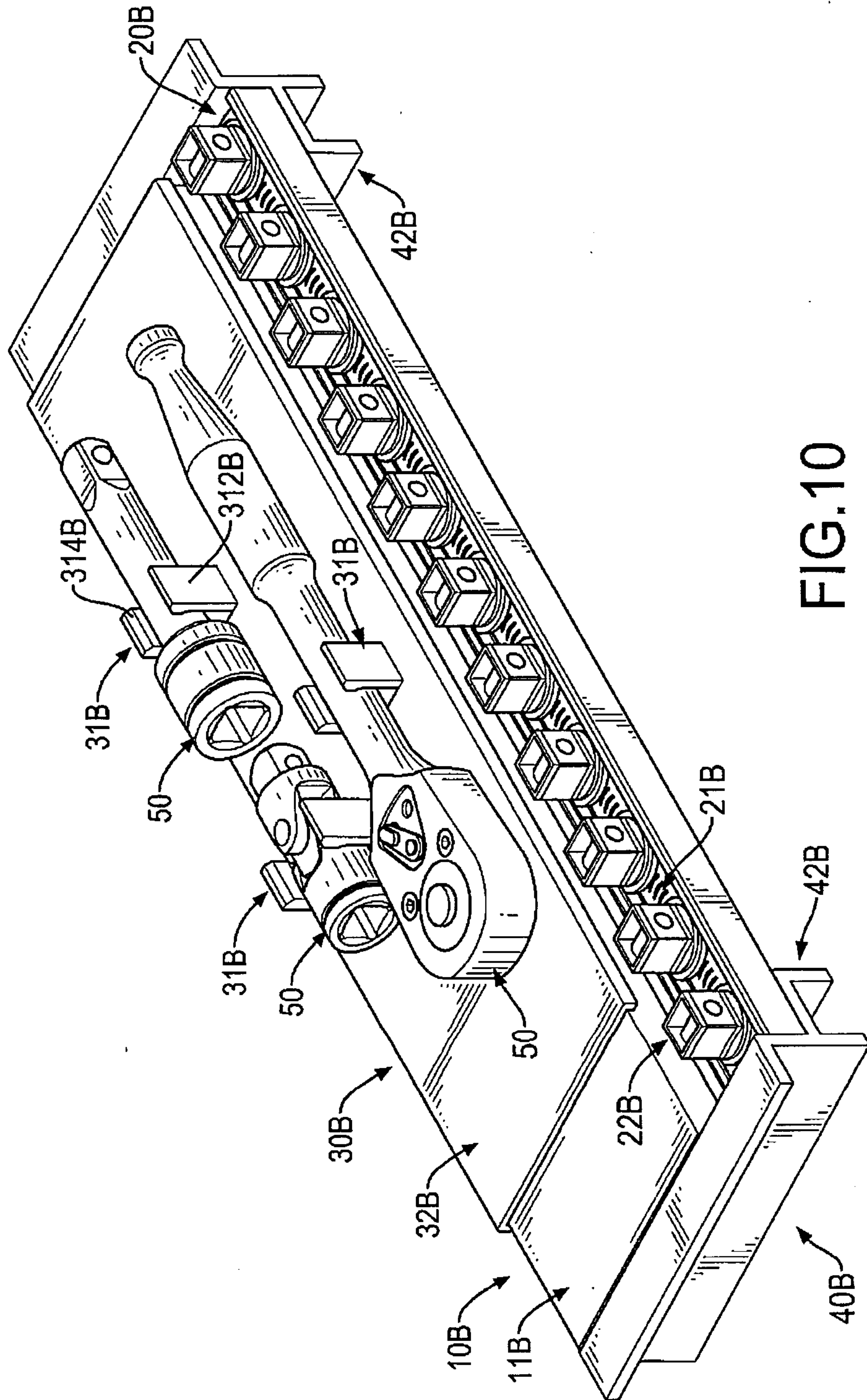


FIG.9



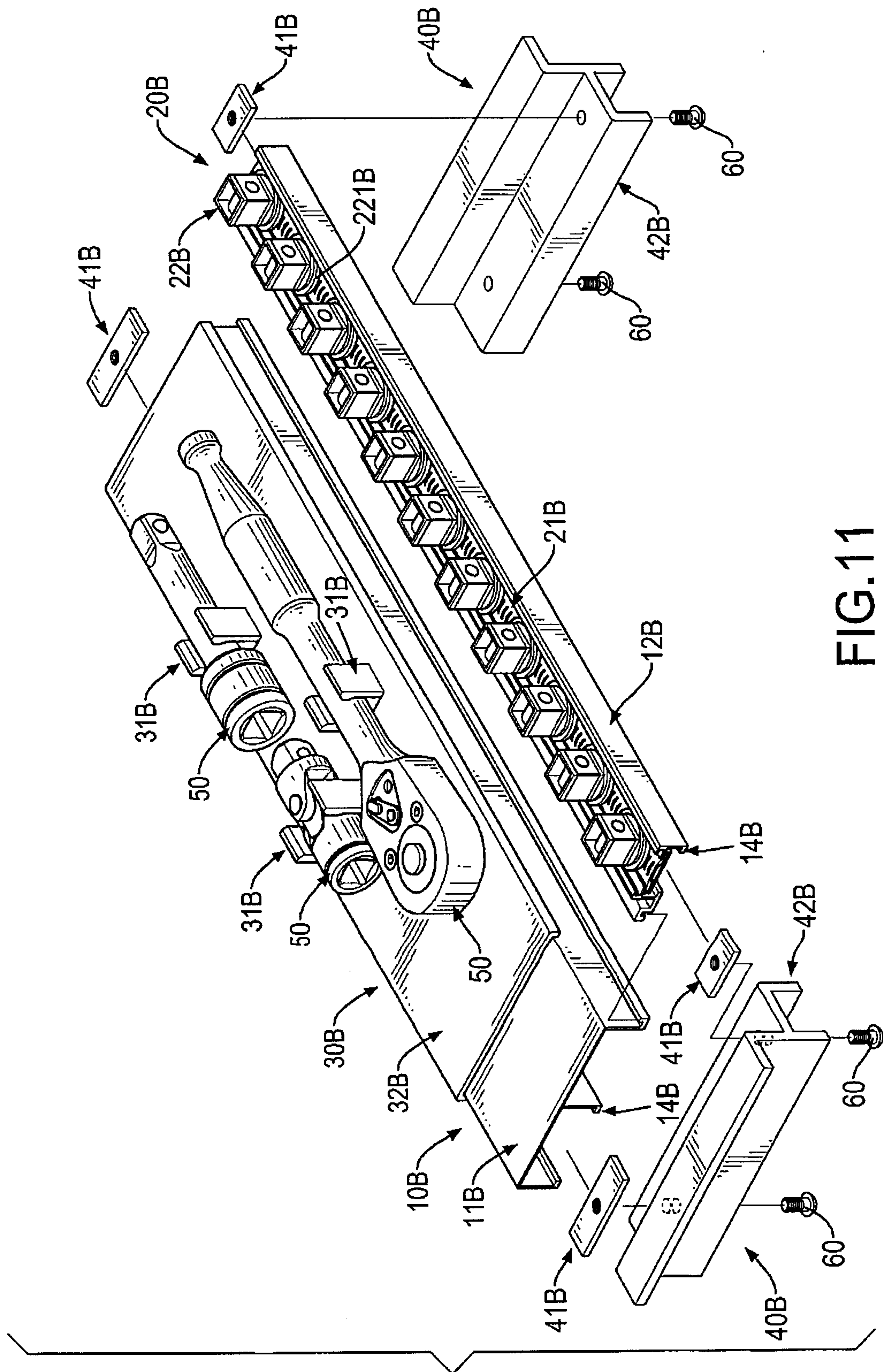


FIG.11



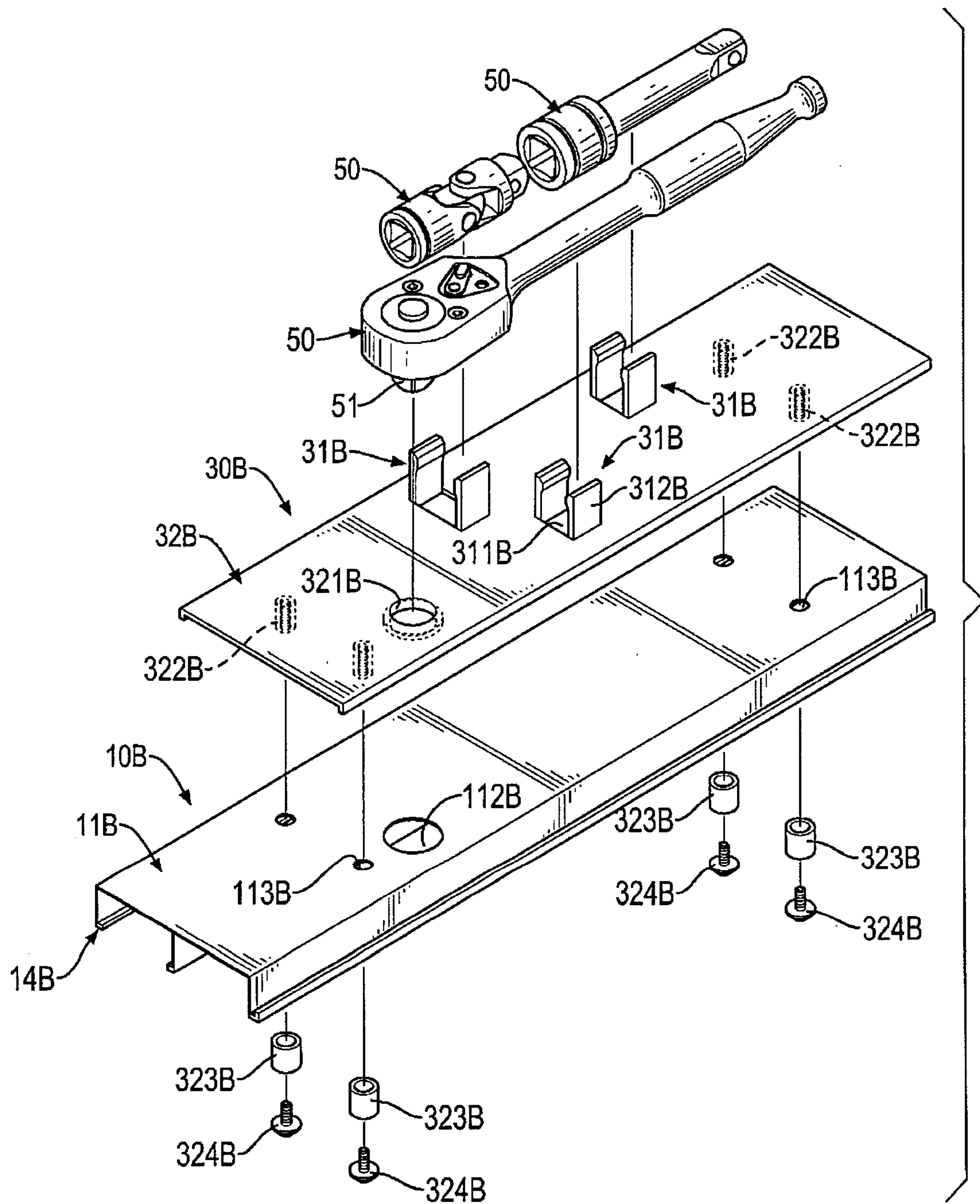


FIG.12



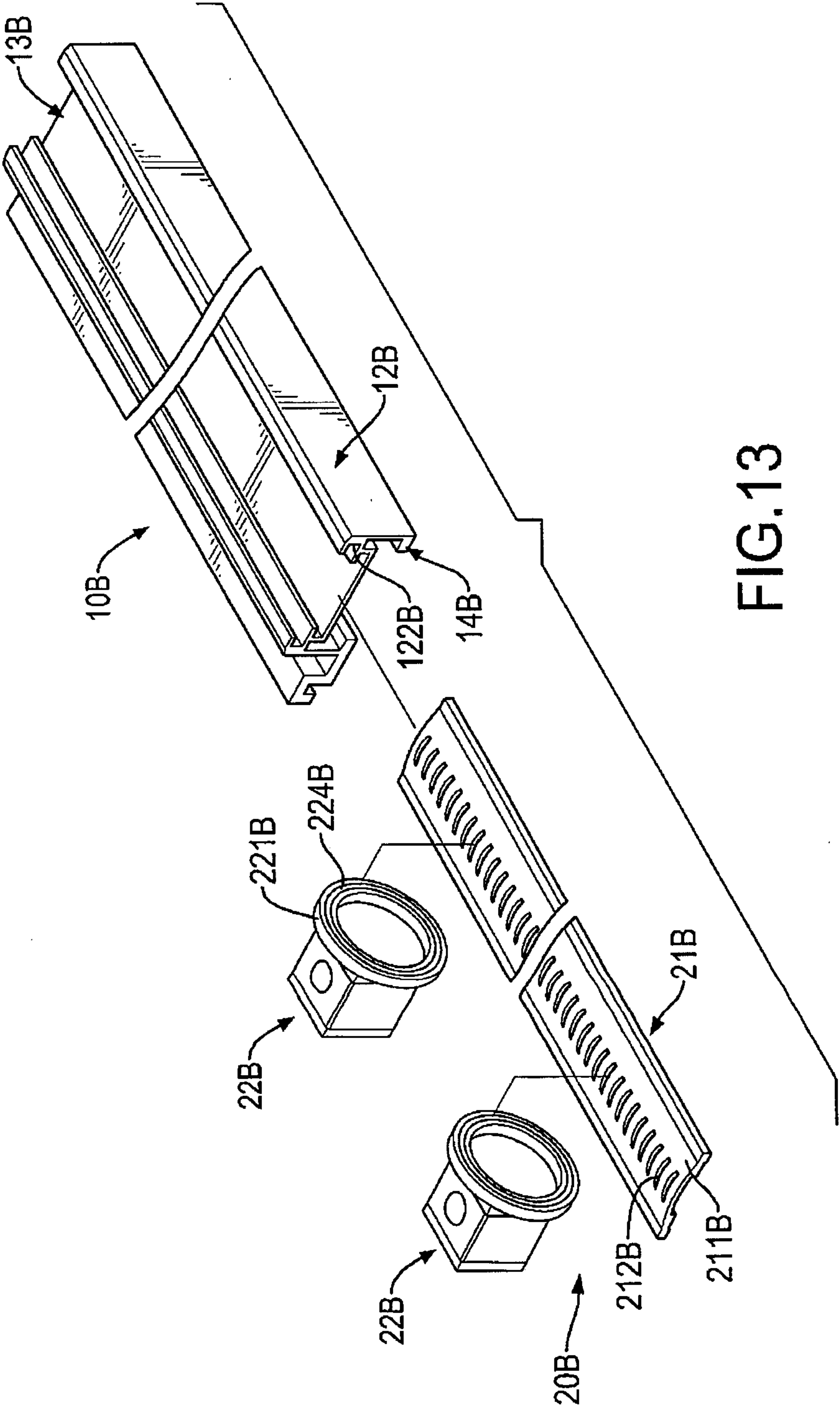
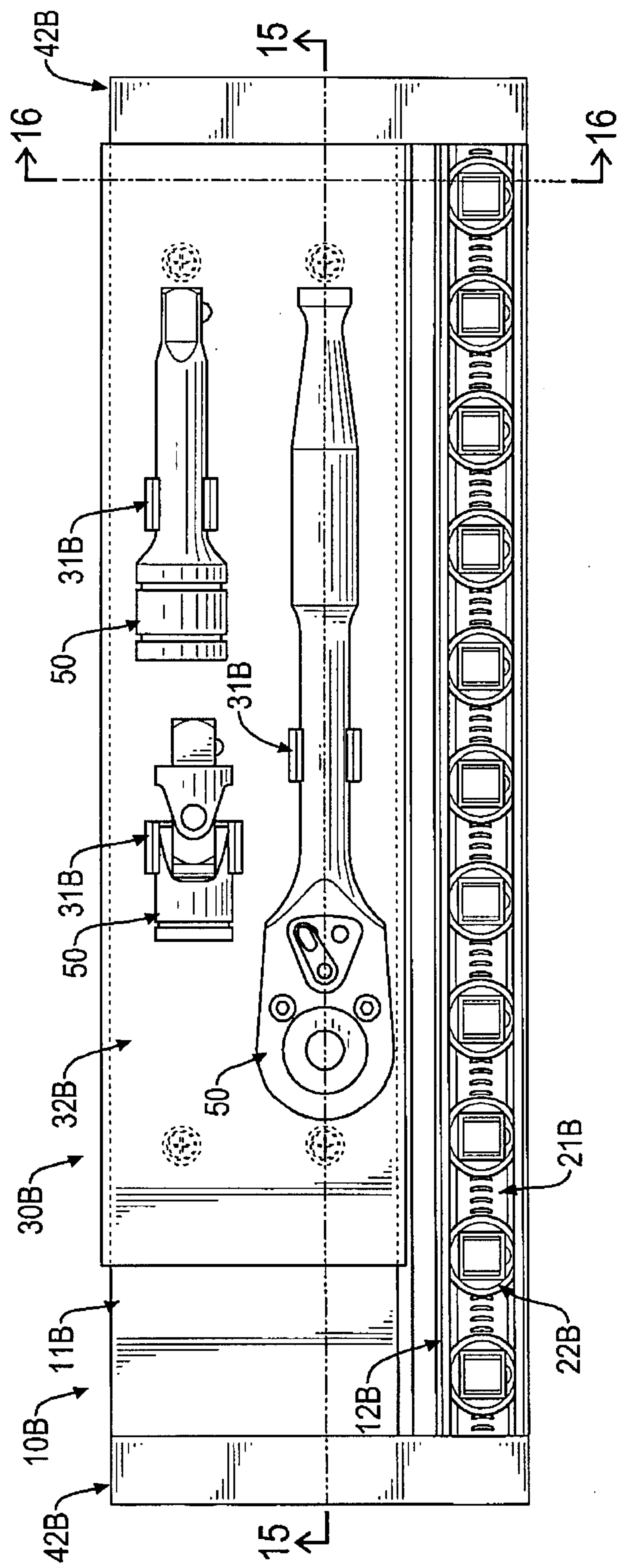


FIG.13



**FIG. 14**

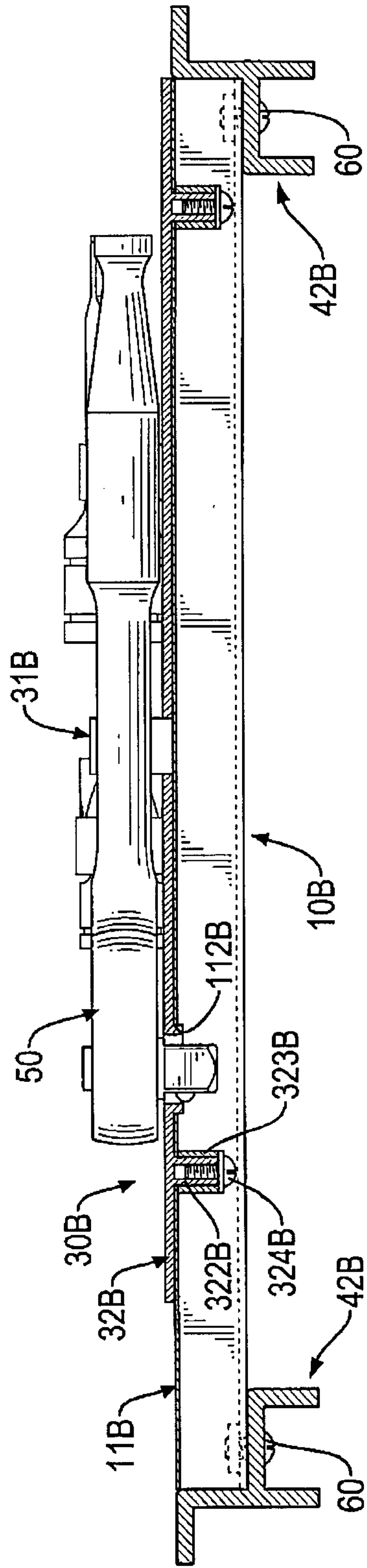


FIG.15

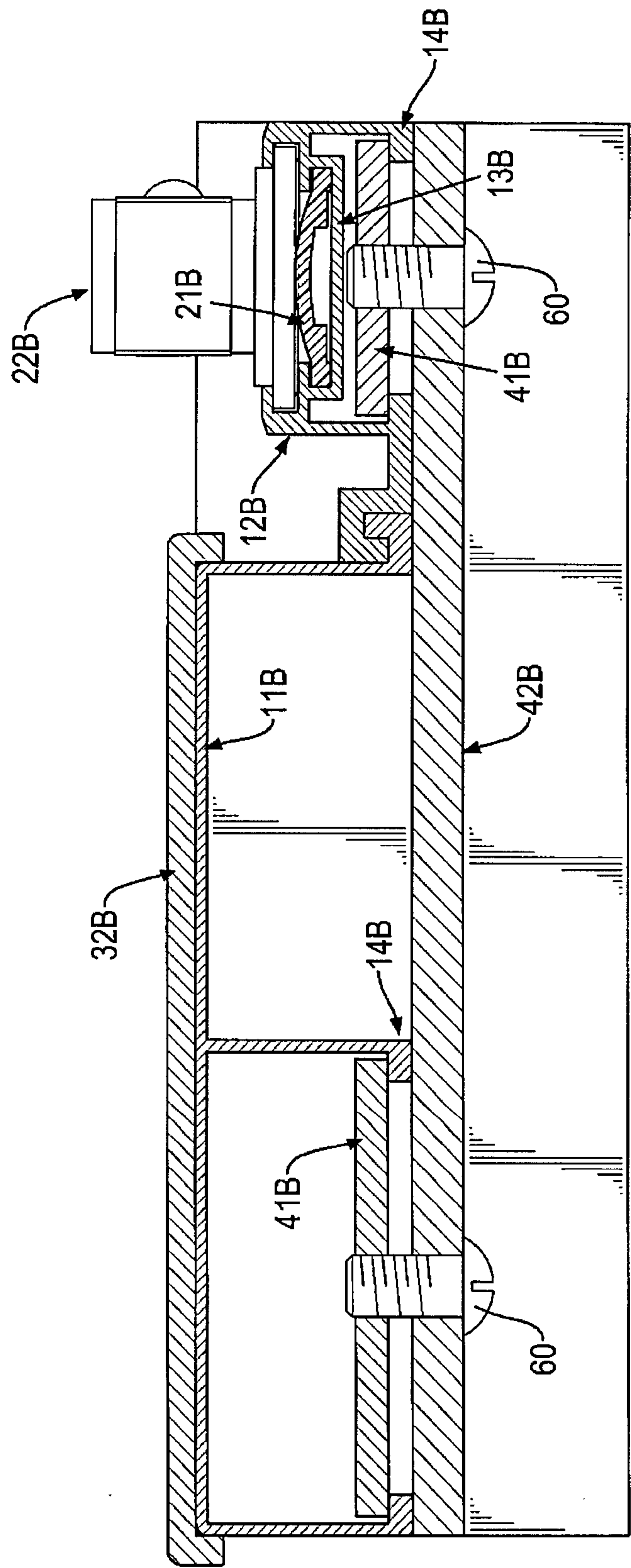


FIG.16



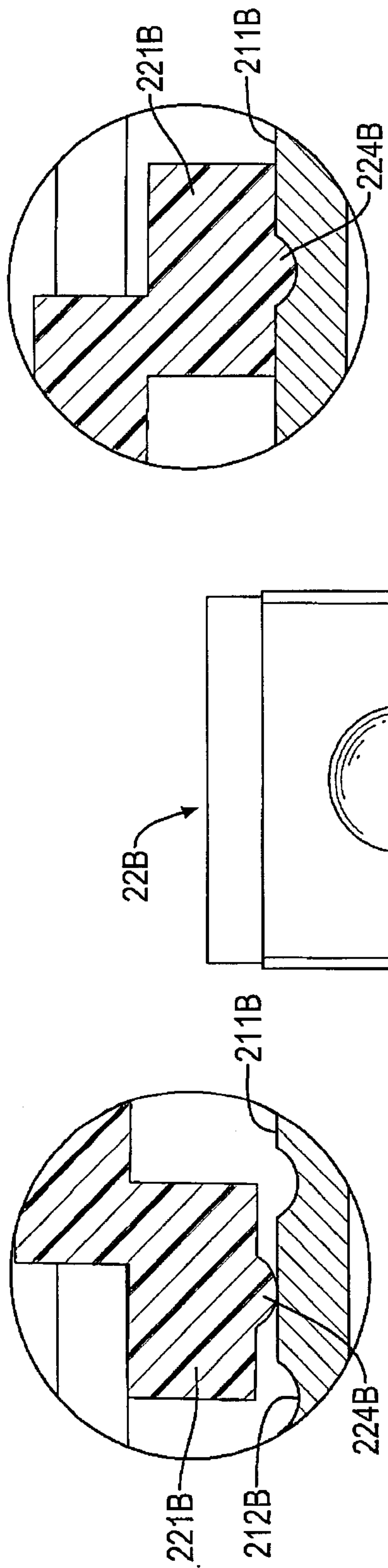


FIG. 17A

FIG. 17B

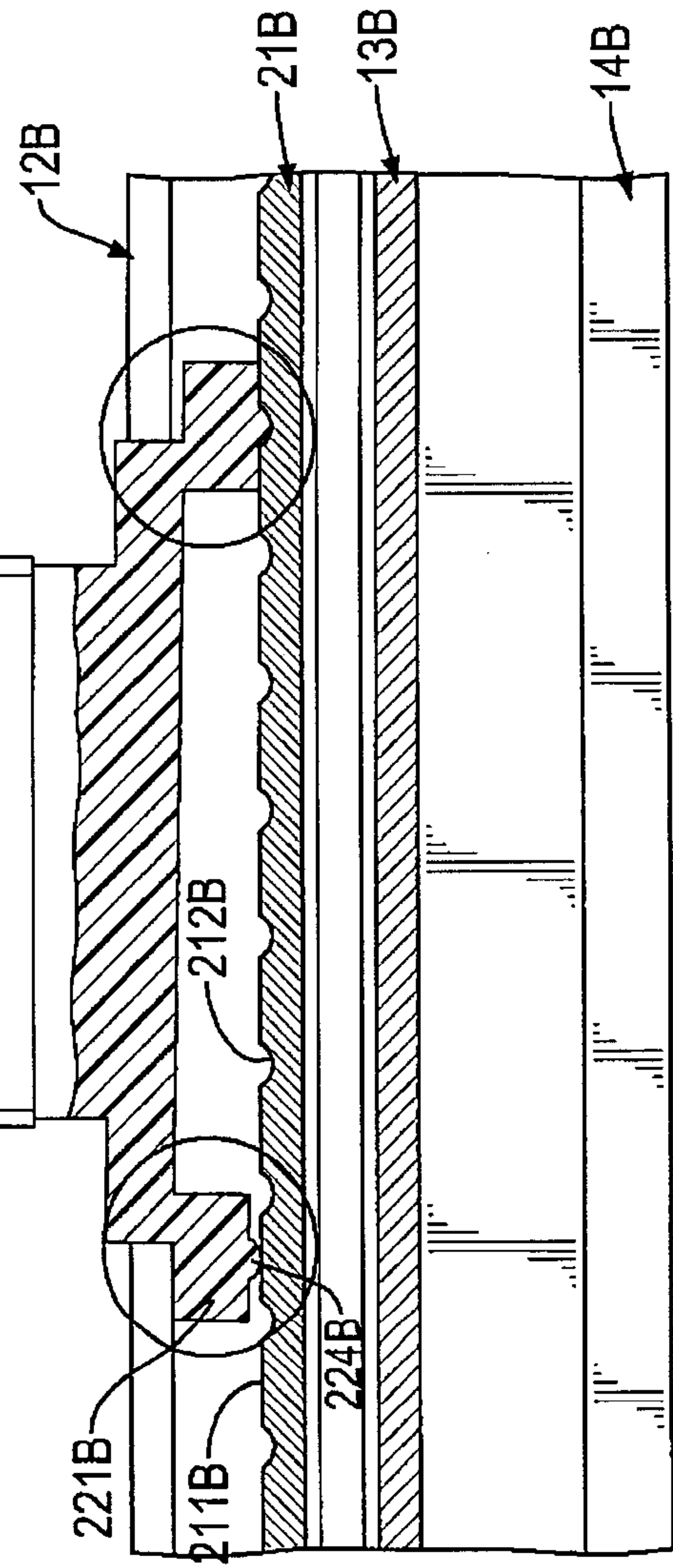


FIG. 17

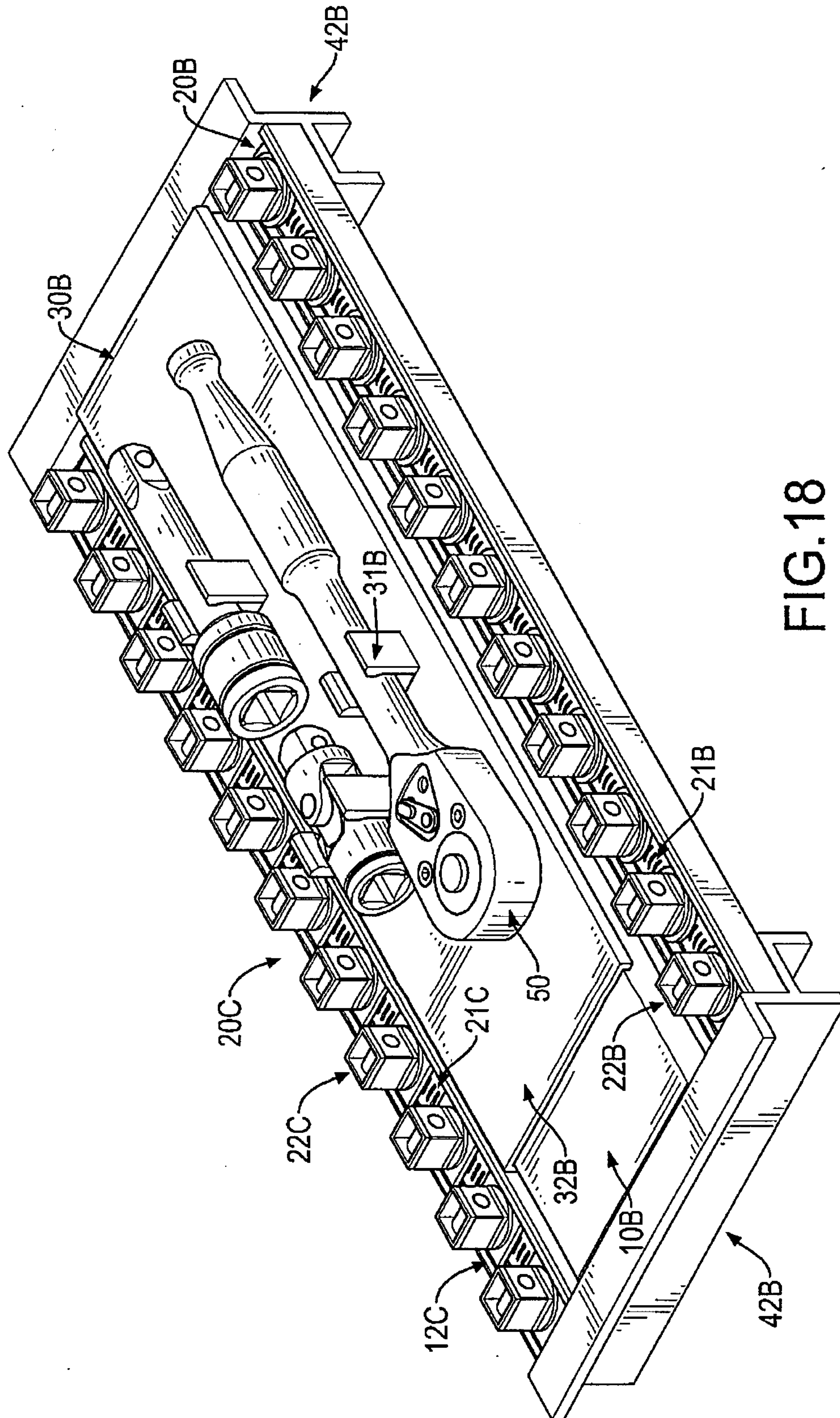


FIG. 18



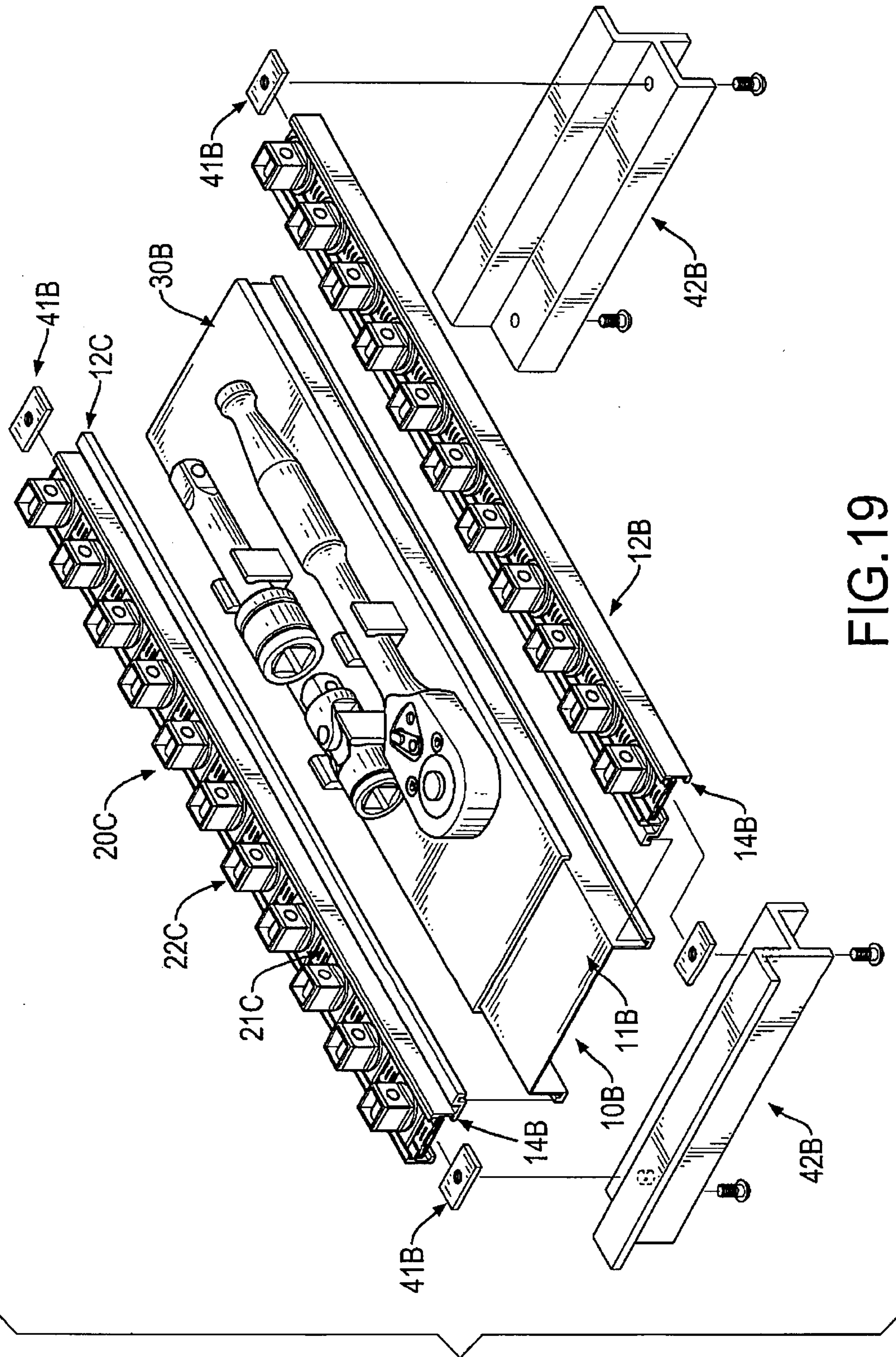


FIG.19

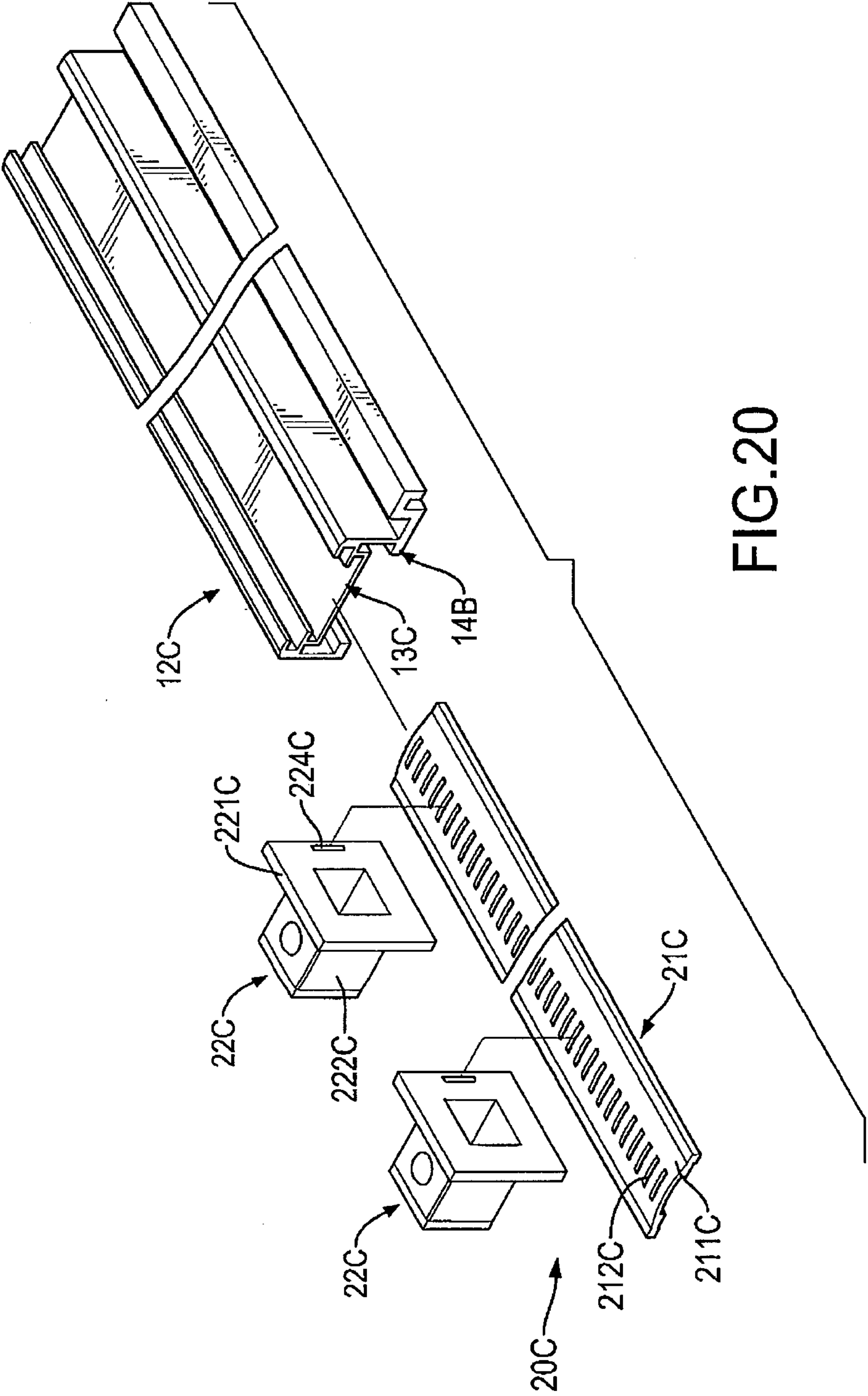
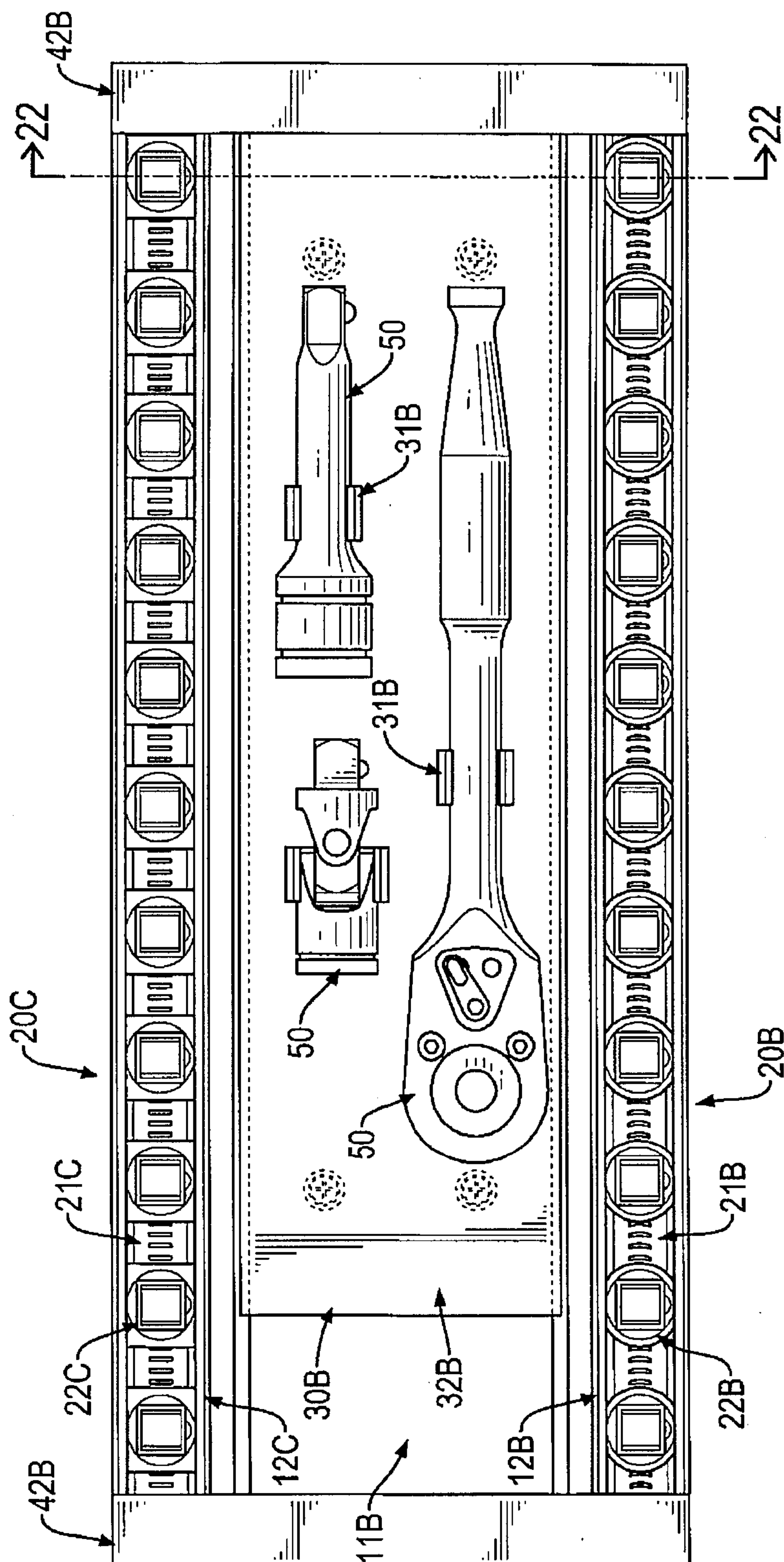


FIG.20





**FIG.21**

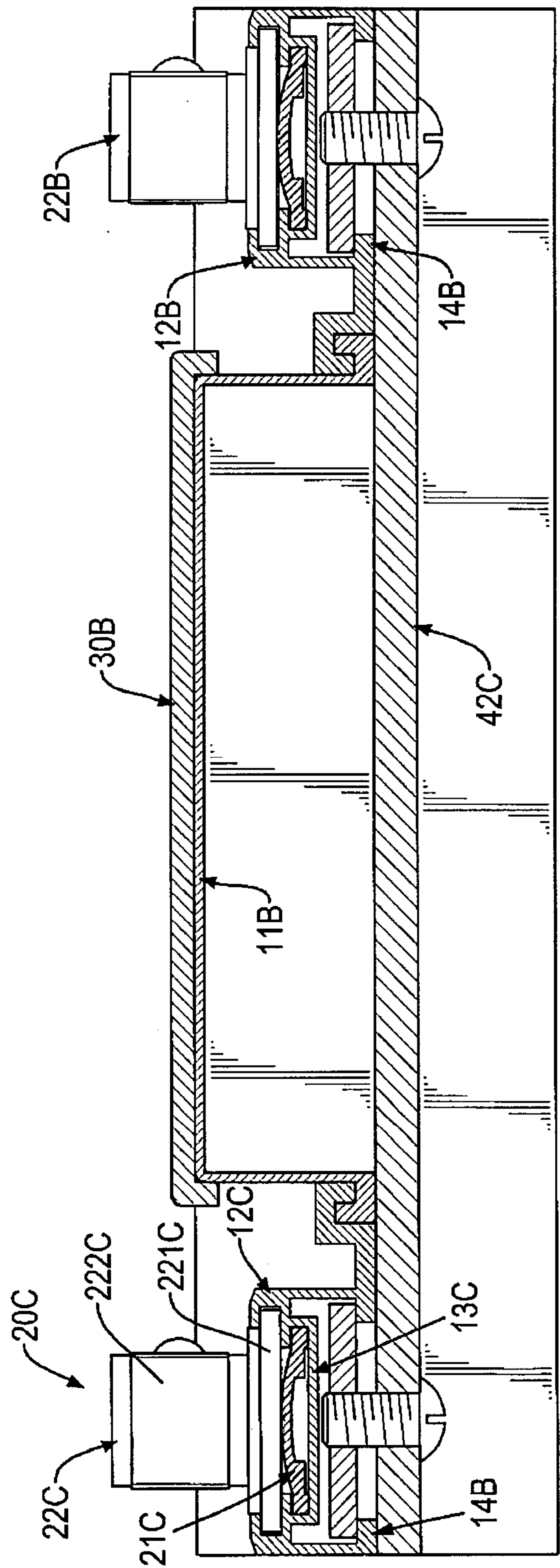


FIG.22

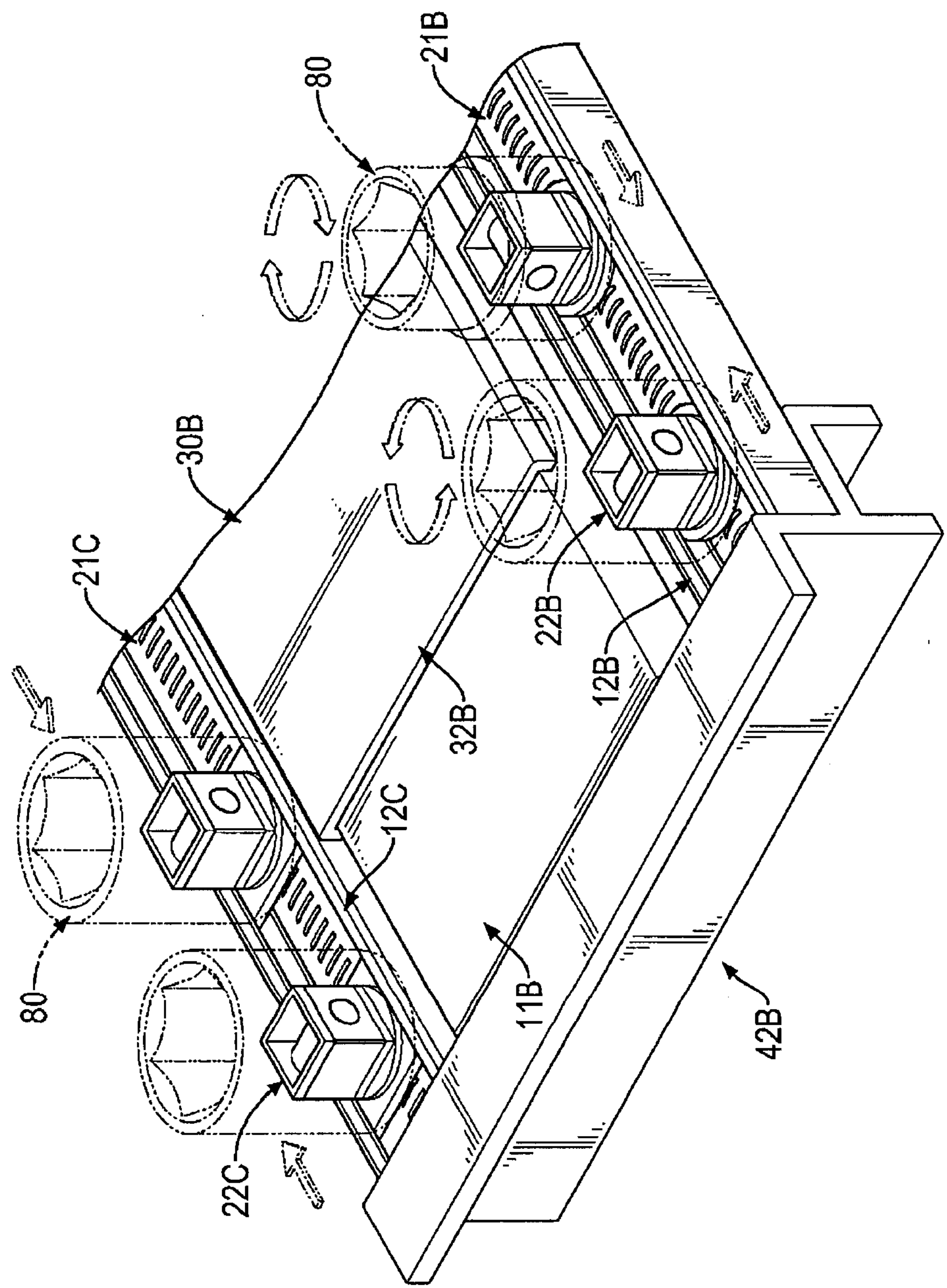


FIG. 23



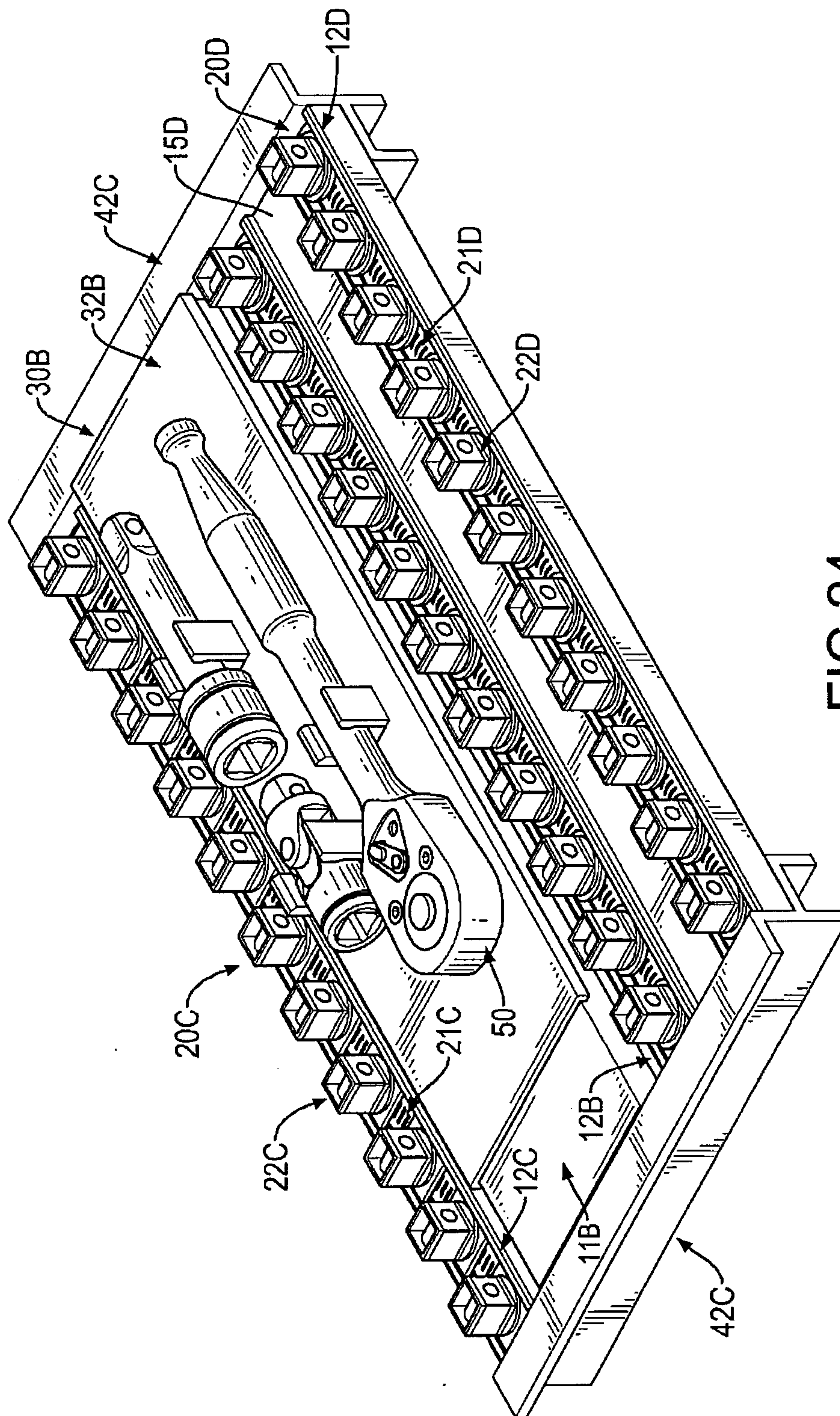


FIG. 24



