

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
B23Q 3/06

(11)
(43)

2003 - 0029005
2003 04 11

(21) 10 - 2001 - 0084366
(22) 2001 12 24

(30) JP - P - 2001 - 00309176 2001 10 04 (JP)

(71) 가 가 282 - 1

(72) 가 282 - 1, 가 가

가 282 - 1, 가 가

(74)

:

(54)

, 가 , 가 , , , , ,

1		1	.
2	1		.
3	2		.
4	1		.
5			.
6	5		.
7			.
8	7		.
9			.
10			.
11			.
12			.
13			.
14			.
15			.
16			.
17			.
18			.
19		1	.
20		2	.
21	20		.
22	21		.
23		3	.
24			.

25 3

()

1,2 : 10,50 :

11 : 12,31,32,34,37,39,42,46 :

13,14,52,53 : 15,33,35,38,40,44,47,55 :

22 : 23 :

26,27,28,29 : 60 :

61 : 100,111,130,140 :

101,120 :

, .

, , , , ,

, , 가 , .

, 가 () , 가 , 가

() , ,

, , , () ,

, , , ,

, 가 , 가 가 가 . , .
가

, 가 , 가 . , 가 . ,

, 가 .
, 가 .
, 가 .

, 가 .
가 , 가 .
가 , 가 .
가 , 가 .
가 , 가 .

, 가 .
가 .
가 .

, 가 .
가 .
가 .
가 .

, 가 .
가 .
가 .

, 가 .
가 .
가 .

(15) , 4 , (12)가 1 (17) , 1 (17)
, (11) (21)가 2 (18) . 1 (17) , 2
(18) . 1 (17) , (12)

(11) , (10) (22) , (22) , (10) 2
(18) (21) (23) . (22)
(100) (24) (24) , (100) , (1
00) (100) (,) 가

(12) , 0 , 1 (17) . (101) (11)

(1) (101) , (102) , (102)
, (103) (104) .
(102) , () (105) , (105)
(106) , (106)
(107) . (107) , ()
) (107) , ,

(103) , (108) , (104) (107) . (103) ,
(104) (107) (107a)
(107) (1)

(1) (1) (100) , (101)
(102) (100) , (107) . (103) , (104)
(100) (10)
, (101) , (100) 가 , (1)
가 , 1

4 (13)
(10) , (12)가 , (101) , (11)
, (10) . (10)
, (22)가 (10) , (100) 가
(100) , (11) (100)

() . (100) () ,
(100)

, 1, (13) 3, (14) 3 (1) ,
 , 5 8 (13) , 5 6 3, 7 8 4
 , , , 가 .
 , (12) , 가 가 .
 , 9 (12) 가 , (11) (23) (101) 가 .
 (31) .
 , 10 (12) , (11) (23) (101)
 (32) . (23) (101) , (32) 가
 (33) , (33) 0 (32) , (101)
 (11) .
 , 11 (12) , L (34)
 , (10) , (34) 가 (35) , (11) (23)
 (101) (34) 가 (36) , (35)
 (36) (34) () , (101) (11) .
 , 12 14 (101) (109)가 , (109)
 , (10) (13) (100) ,
 .
 , (11) (23) (109) 가 , (23) ,
 12 , (23) (101) , (109) , (37)
 . (23) (101) , (37) 가 , (38)
 , (38) , 0 (37) , (109)
 , (101) (11) .
 , 13 (12) , (109) () L
 (39) , (10) , (39) 가 (40)
 , (11) (23) (101) , (109)
 (39) 가 (41) , (40) (41) (39)
 () , (109) , (101) (11) .
 , 14 (12) , (109) ()
 , (42) . (42) , ()
 (109) (43) , (43) (109) 가 , ,
 (42) (101) (11) . (43) ,
 0) , (42) 가 (44) , (11) (23) (101) (1
 , (109) , (42) 가
 (45) , (44) (45) (42) .

, 15 , (101) (107) ,
 , (110) , (110) 가
 , (101) (11) (46) .
 , (46) , (110) () □ , □
 , (49) . (49) , (110)
 가 , (110) , (101) (11) .
 (46) , (10) , (46) 가 (47) , (11) (23)
 (101) , (110) , (46)
 가 (48) , (47) (48) (46) , (46)

, 16 , 15 (110) 가
 , (101) (11) (54) , (54) ,
 (110) () , 가 ,
 . (54) , (10) , (54) 가 (55) , (11)
 (23) 가 (101) , (110) ,
 (54) 가 (56) , (55) (56) (5

4)

, (11) , (22) (24) , 17 18
 , (26,27,28,29) . 17 (26) ,
 (24) , 4 , 17 , (26)
 90° , 가 .

, 18 (1) , (24)
 (27) . , 18 (2) , (24)
 (24) , (28) , 18 (3) ,
 (29) .

(22) (11) , (100) 가
 , . , (100) , ,
 , , ,

, () 가 (1) , 19 , (10)
 (105) () 가 . (113) , (105) , (102)
 () (114) . (114) , (114) , (115) , (115)
 () , (114) , (115) , (115)

(115) (116) ()
 , (114) , () ,
 (113) ,

(2)
 , 2
 20 , 2 , 21 ,
 20 , 22 , 21 . , 2 , 1

20 22 , 2 (2) , 1
 (1) , (120) .

, 2 (2) , (51) (111)
 (50) , (50) 가 , (111) (11) ,
 (120) (11) , (32) .

(50) , (52) , (50)
 , (52) (53) , (11) (21)가
 , (120) (122) (123) (55) .

(52) , (2 , 60°) , 6 , (53) 가
 , 6 (52,53) (50) ,
 , (111) .

(2) (120) , (121) , (121)
 , (121) (2) (122)

(121) , () (125) , (12
 5) (126) , (126) (121)
 (127) . (127) (122)가

(122) , (50) (55) (123) , ()
 127) (128) 가 , (121)

(122) , (2) (111) , (2) (120)
 (2) (111) .

, (120) , (111) 가 , (2)
 가 , 19 , 1 ,
 (52) , (50) , (32)가
 , (120) (11) , (50)

, (11) (111) (111)

, 1

(52) (50) (111) (52) 가

(3)

3

23 3 3

3 1

23 3 1 (1) (131) (101) (11) (130) (130) (131) (60)가

(1) (11) (24) (131)

(60) (11) (22) 가 (61) 가

(60) 가 (130) 가

가 가

(1) 1 (101) (130)

가 (13) 가 (11)

(60) (130) (11) (6

0) (12) (101) (11) (130) 가

3

(60) (130) (11) 가

, O 가

3

2) 24 (141) (140) 2 (

25 (131) (130) (113)

5.

1 3 ,

6.

1 3 , 가 ,

7.

6 , , 가

8.

1 7 ,

9.

가 , ; ;

10.

9 , ,

11.

9 10 ,

12.

9 10 ,

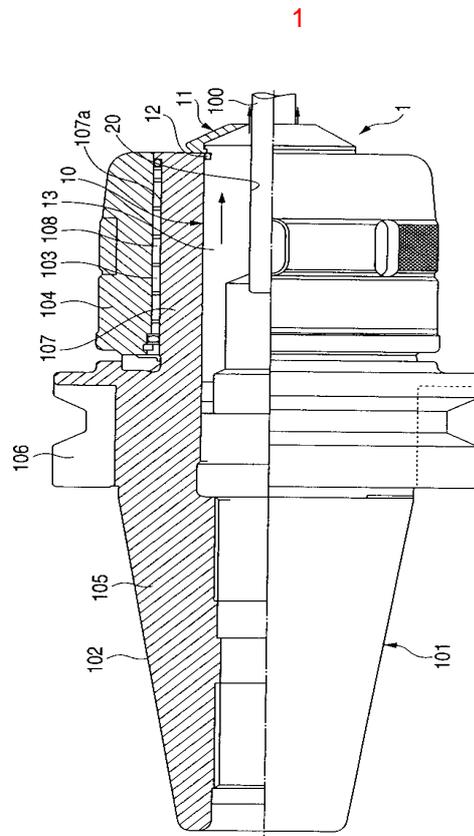
13.

9 10 , 가 ,

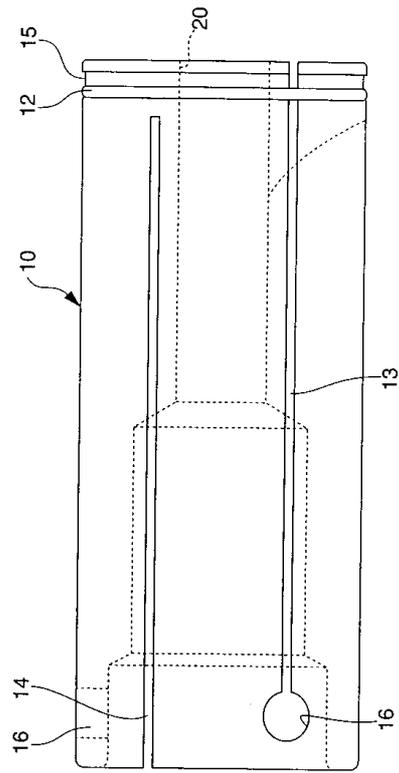
14.

13

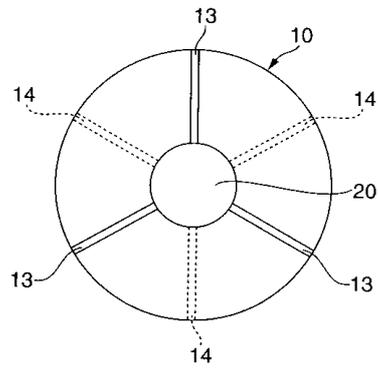
가



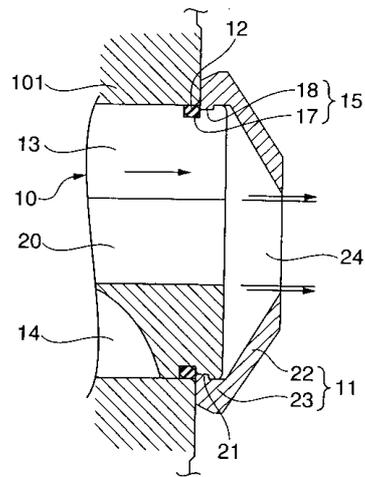
2



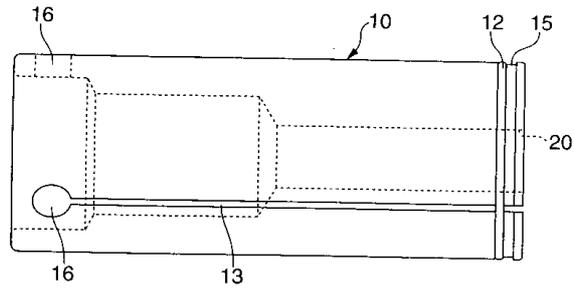
3



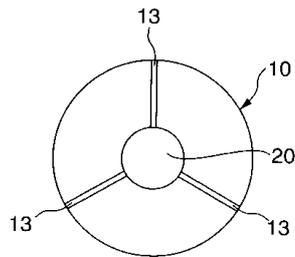
4



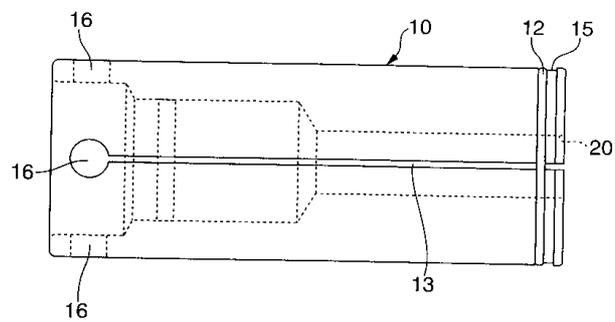
5



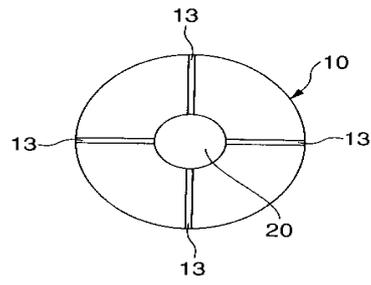
6



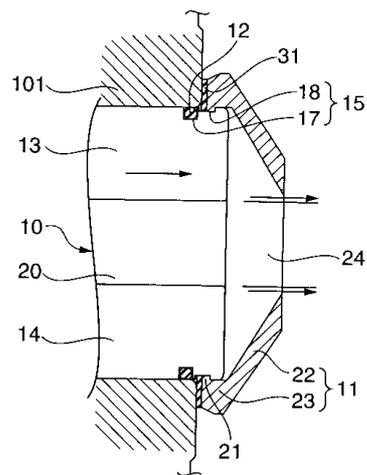
7



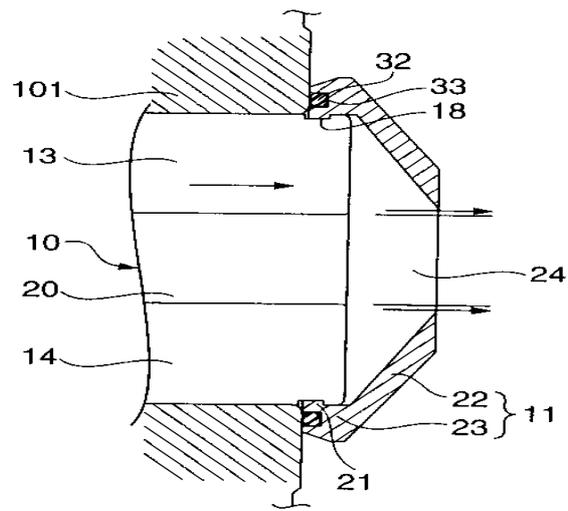
8



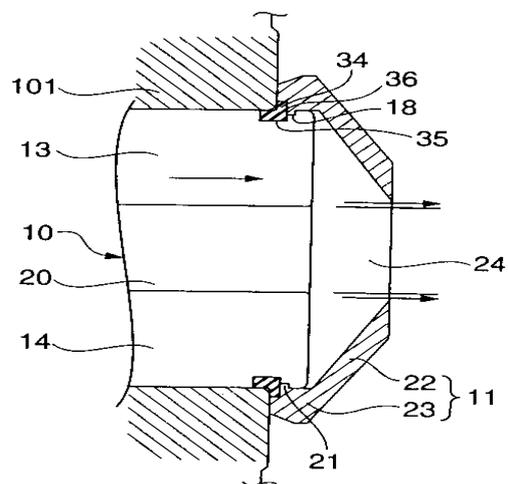
9



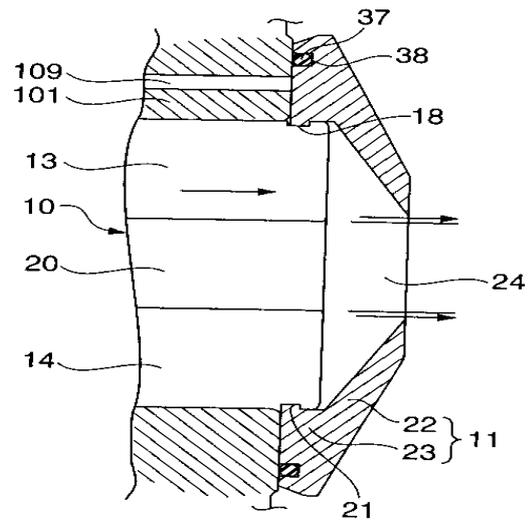
10



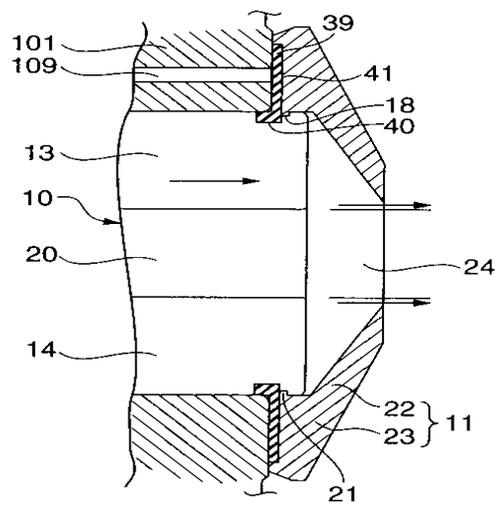
11



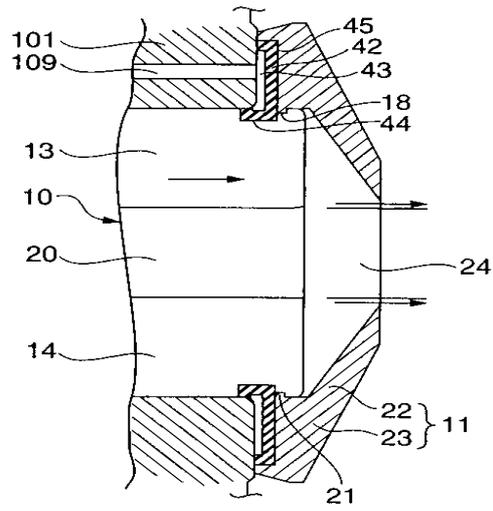
12



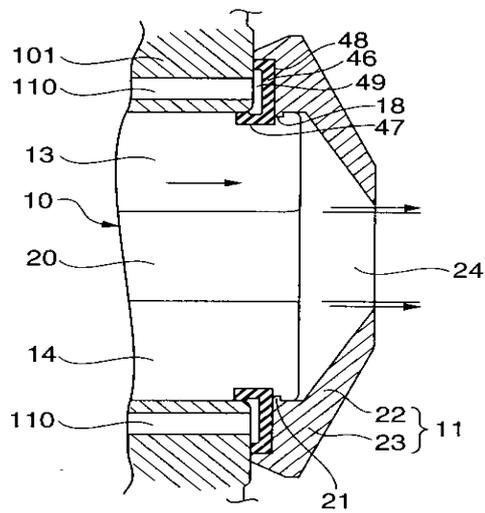
13



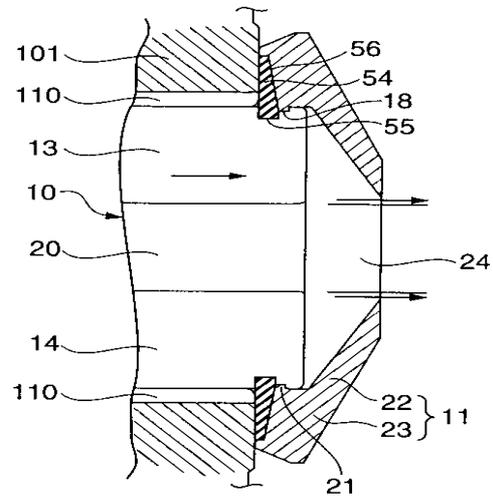
14



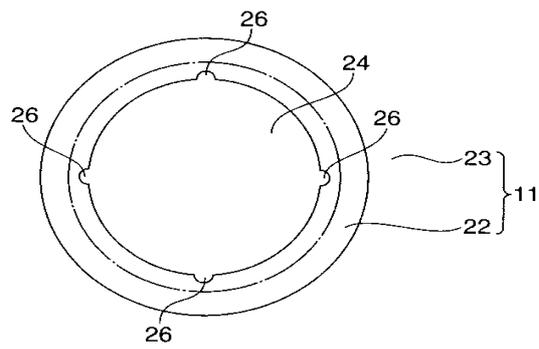
15



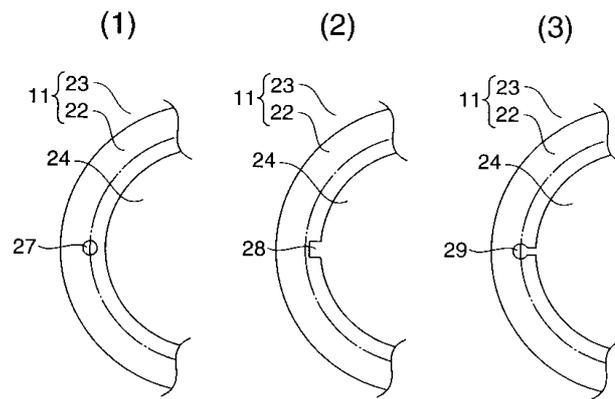
16



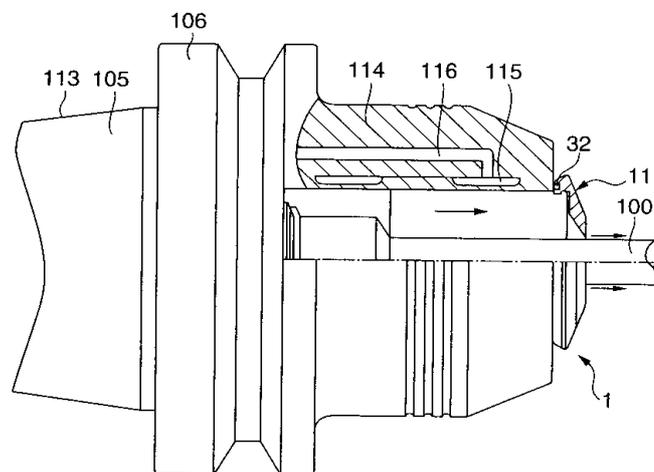
17



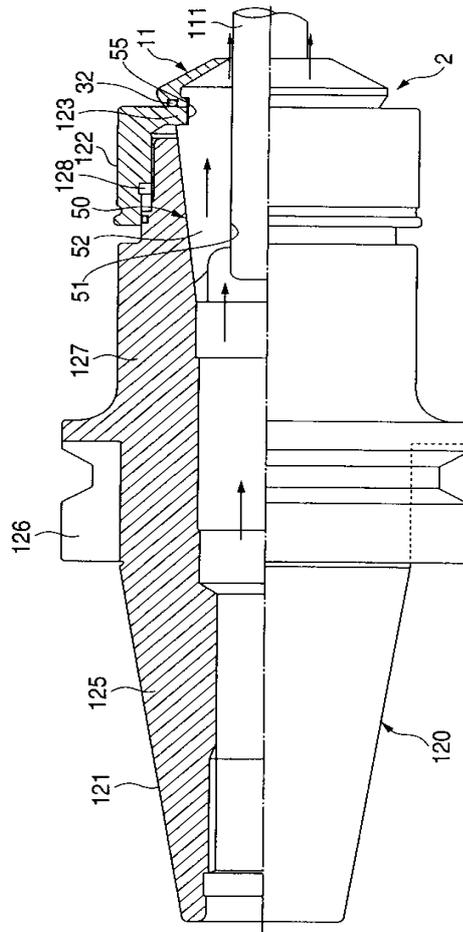
18



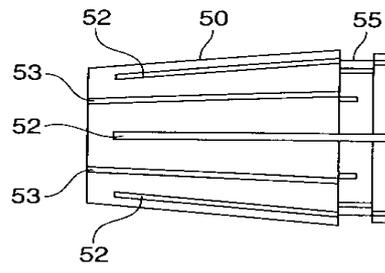
19



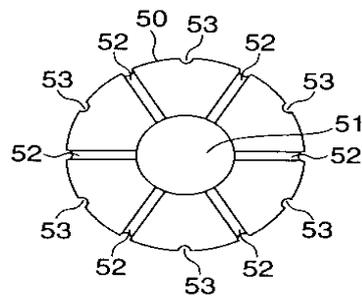
20



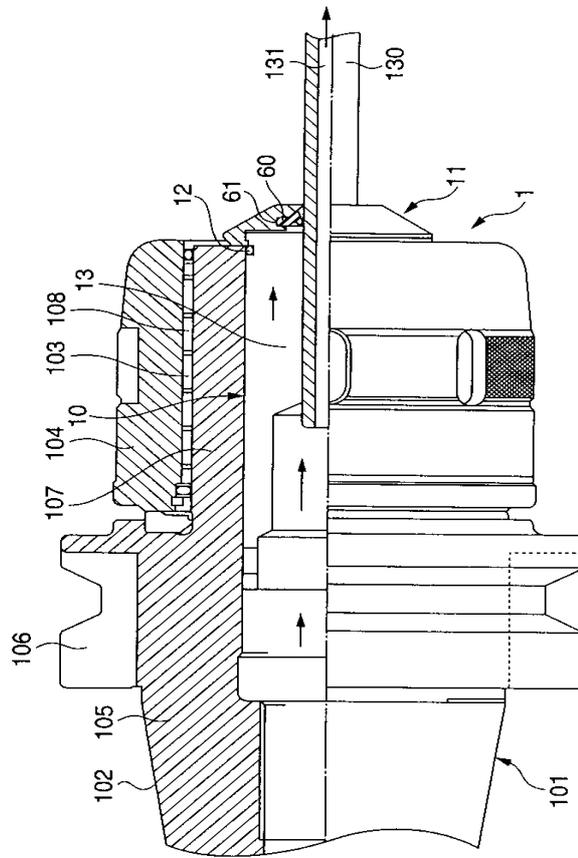
21



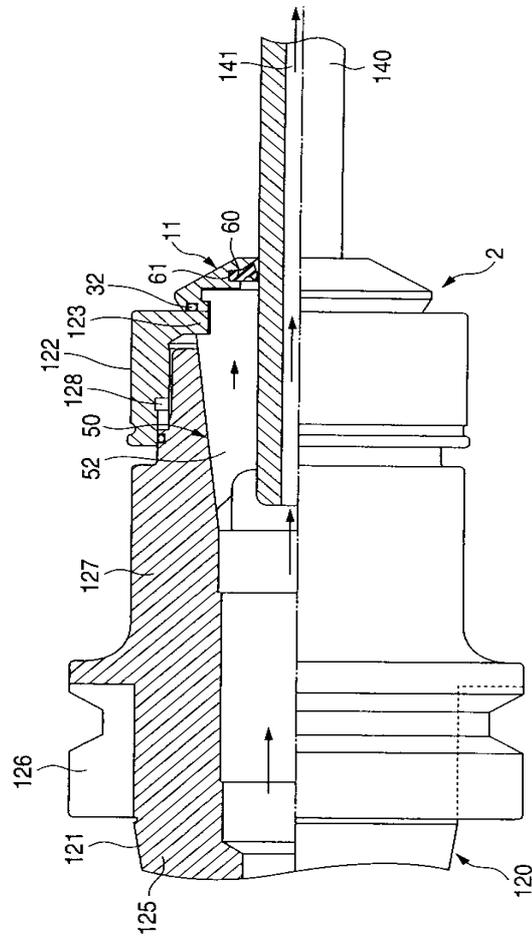
22



23



24



25

