



(74)

:

(54) -

가  
 , (24) (24) (22) (2  
 0) (20) (28) (28) (22)  
 (30) (20) (24)

2a

, , , , , , , , , ,

- , (E - gun) .

m of electrons) , ( ; emitter), (a strea  
 가 , , 가 , 가  
 . 3,710,072 5,111,022 , 가

arcing) 가 , 가 , 가 ( ,  
 가 , 가 가 , 가  
 (similar path) .

(bare conductor)

가

가 (Hanks ) 5,216,690 가 ,  
(shield)가 가 가  
HV KV (cathode) 가 가

가

가

가 , 가

가

가 , 가

가

가 , , , , .  
 . 가 , 가  
 , .  
 , 가 , , , , ,  
 . 가 , 가  
 가 가 1 가 2 .

- 1
- 2a
- 2b
- 2c
- 3a
- 3b
- 3c
- 4a
- 4b
- 5
- 6
- 7
- 8a
- 8b

가

2  
2

(E - gun)

(14) 1 3a (10), (12),

(20) (10) 2a 2b (22) (22) (24) (28)  
 (50) (20) (20) (26) (30) (24)  
 6 (22), (30),

6) (26) (31) (35) (50) 2c (2)  
 HV (33) HV (31) (31) (50) (32),  
 HV (32) (32,33) (34) HV (34) (33)

38) (26) 2b (40) 2 (36,  
 (20) (37) (24) (42/43) (36/38) (20)  
 (38) (44) (36) (38) (46,  
 48) (36,38)

9) (10) (50) (52) (12) (4)  
 (35) (28) (50) (50) (56)  
 (10) (54) (46/48)가 (가) (6)  
 0) (52) (10) (50) (10) (50)  
 (M) (5) (64) (60)  
 8) (50) (64) (66) (66) (60) (2)  
 가 (58) (66) (M) (12) (67)  
 (10) (68) 3b (68)

water line)(70) (14) 4a 4b 가 (72) ( )  
 , ( ) (74,76)

(78) (72) (80)  
 (84/85)가 (72), (74) (78) (82)  
 (78) (84/85) (86)  
 (88/89) (70), (72), / (74/76)  
 (78) (90) (70)  
 (78) (74/76) (70) /  
 (74/76), (72) (70)

4/95) (50) (92) (78) ( 1 ) (9  
 (88/89) (46/48) (94/95) 3c  
 (88/89) (96) (46/48)  
 (97) (94/95) (46/48)  
 (46/48) (10)가 { (98) (97)  
 (97) 가 (24) }

(74/76), (80) 가 (72),  
 (78), (92), (50), (28) (88),  
 (94), (46), (36), (84) 가 (42)  
 9), 가 (85) 가 (8)  
 (95), (48), (38), (43)  
 가

(90) 가  
 (84/85) (78)  
 , 2 (88/89)가

가 (58) (84.85) 가 (24) (V<sub>1</sub>) 0 - 7 VAC iso - 2  
 DC (V<sub>1</sub>)

5 (F) { (V<sub>1</sub>) } (20) ( (28)  
 (V<sub>1</sub>) (22) (100) (24)  
 (100) (30) (F) 가 (100)

(12) (10) (M) (100)  
 가 (58) (100) (102)  
 (100) 가

(20) (28) 6 (20/28) (24)  
 (F) (22) (30) (24)  
 (24) (100) (20) (36/38) (22)

가 (22/30) (100) (22/30)  
 (100) (28) (3)  
 0) (104) (20) (28) (M) (104/106)  
 (100) (22) (106) (100) (18)

/ (22/30) (30) 가 (100)  
 (66) (64) (F)  
 (M) (100) 가 (20/28) (20)  
 (M) (10) (22,30) (24) (M)  
 (100) (35) (28) (30)  
 (28) HV (32) (34) HV (33) (35), HV (32) (5)  
 0)) ( ( ) { (28), (35), HV (32) (67,68)  
 (84/85) (10) (84/85) (90)  
 가 (36) (24) (84/85)  
 (20)

(22) (24) (0.125 ) (0.775 )  
 (0.04 - 0.06 ) (0.08 - 0.1 ) (28) (20) 0.100  
 +/- .0005 (22) (0.085 - 0.095 )  
 (0.020 ) (30) (104) (100)



가 ;

;

,

,

가 ;

가 ,

,

2.

1 , 가

3.

1 , 가 ,

4.

1 , 가

5.

4 , ,

,

;

가 ,

6.

1 , 가 ;

가 1 가 2

가 .

7.

6 , ,

1 1 ;

1 2 ,

2 1 2 .

8.

1 , 2 .

9.

1 , 2 가 ,

10.

1 , .

11.

가 ;

;

가 ;

가 ;

,

가

12.

11 ,

가

13.

11 ,

가 ,

14.

11 ,

가

;

가

1

가

2

가

15.

14 ,

,

1 1 ;

1 2 ,

2 1 2 .

16.

11 ,

2 .

17.

11 ,

가 ,

18.

11 ,

19.

,

가

;

;

가 ;

가

;

20.

가

;

;

가 ;

가

;

가

;

가

1

가

2

21.

20

1

1

;

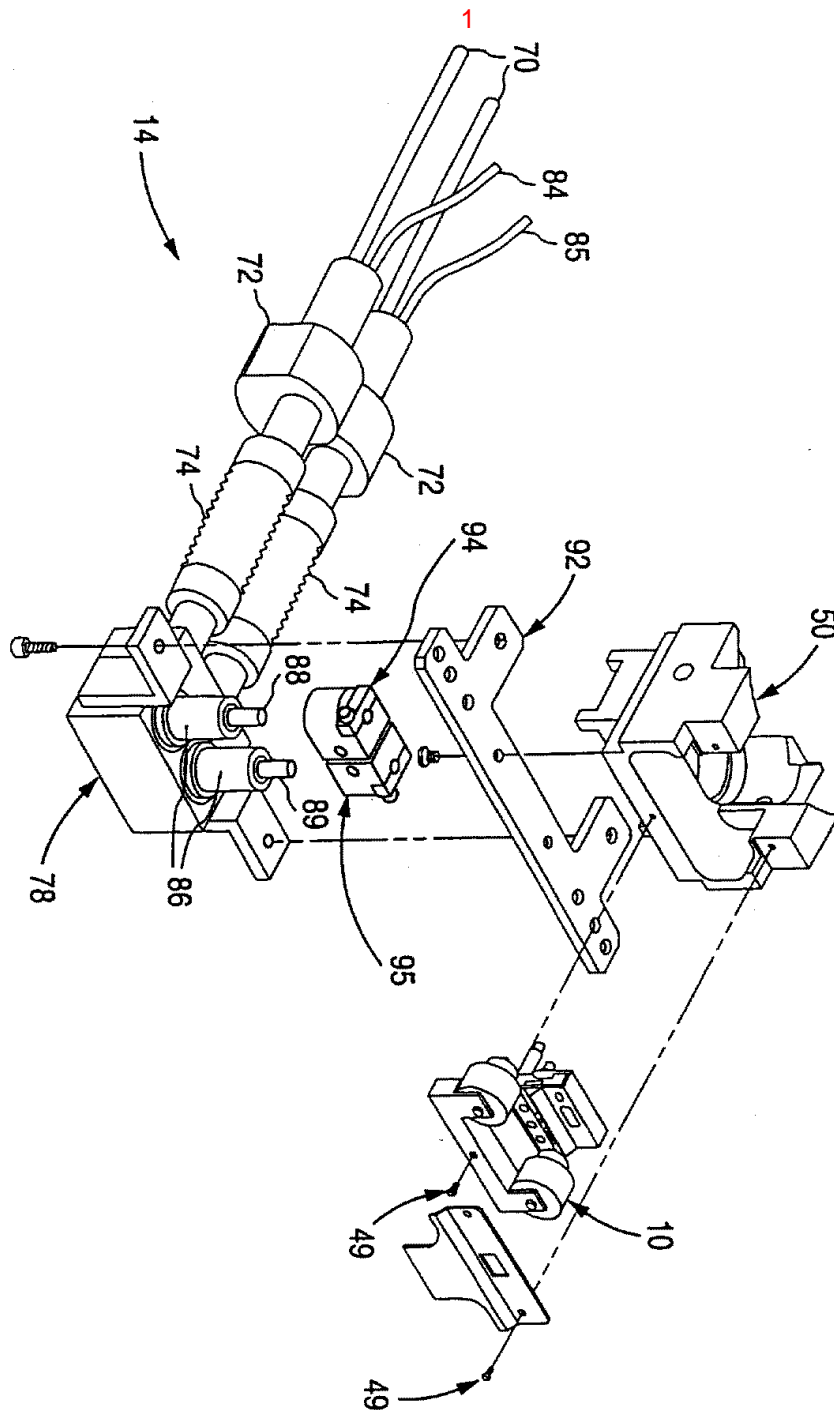
1

2

2

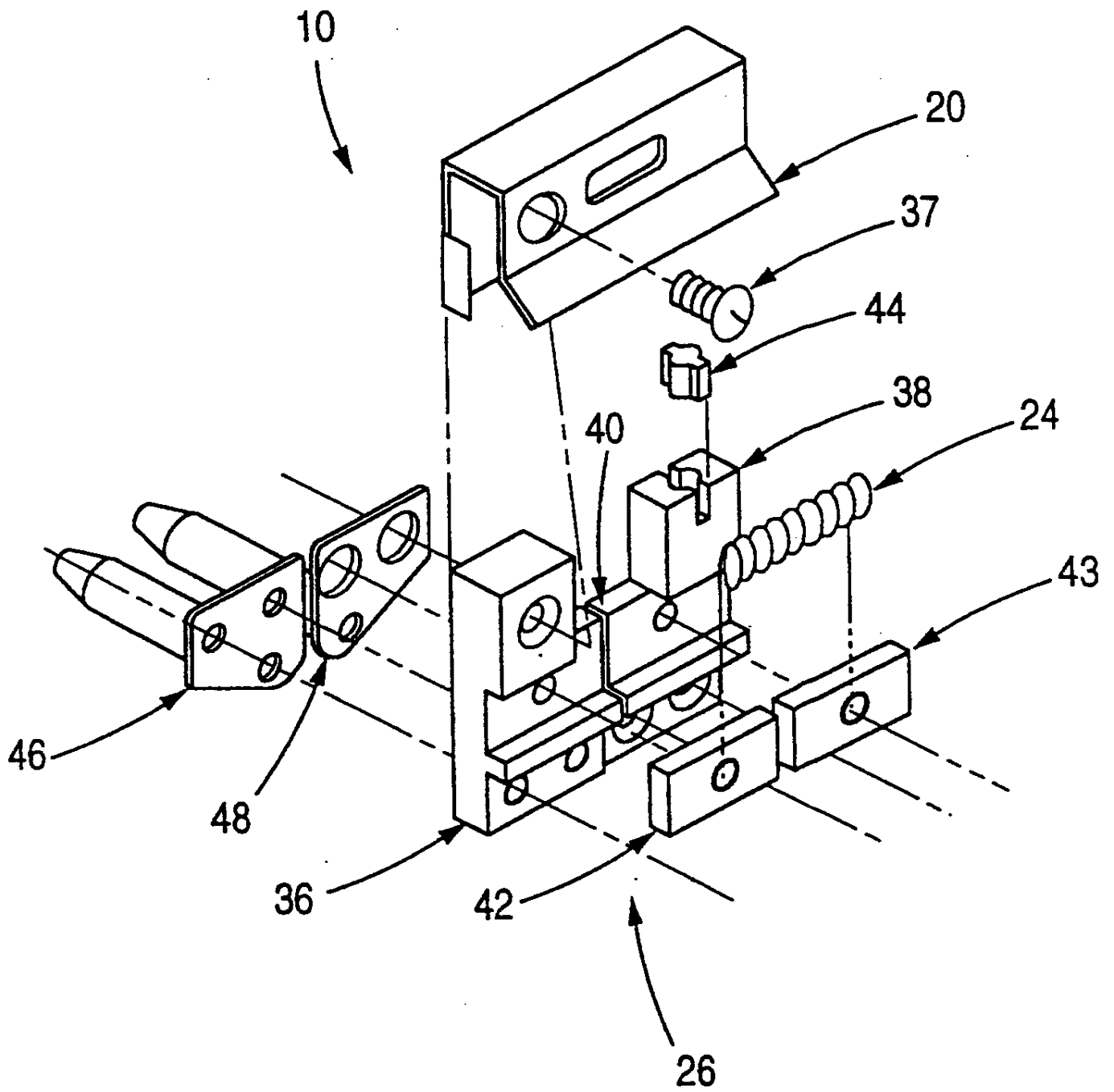
1

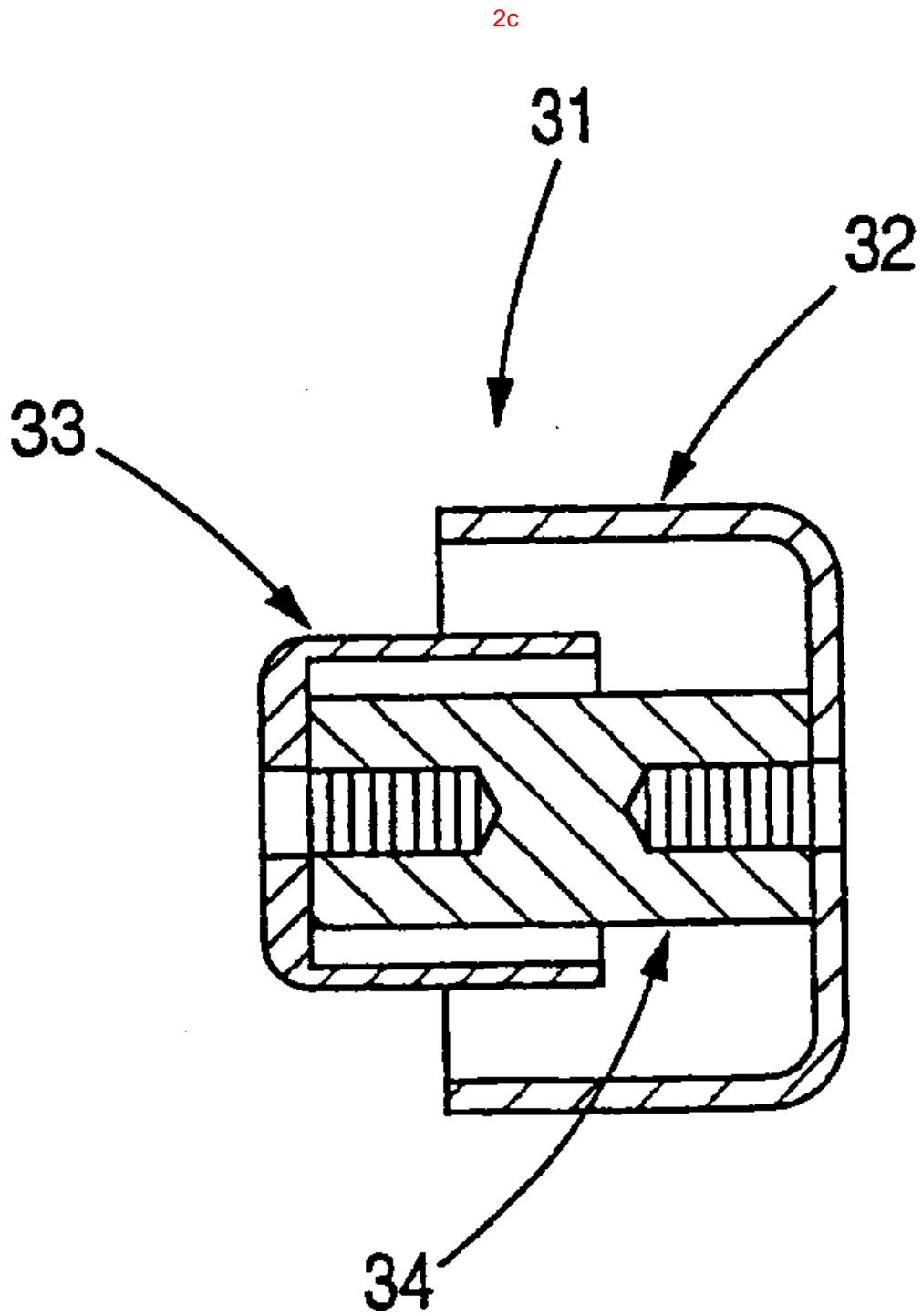
2



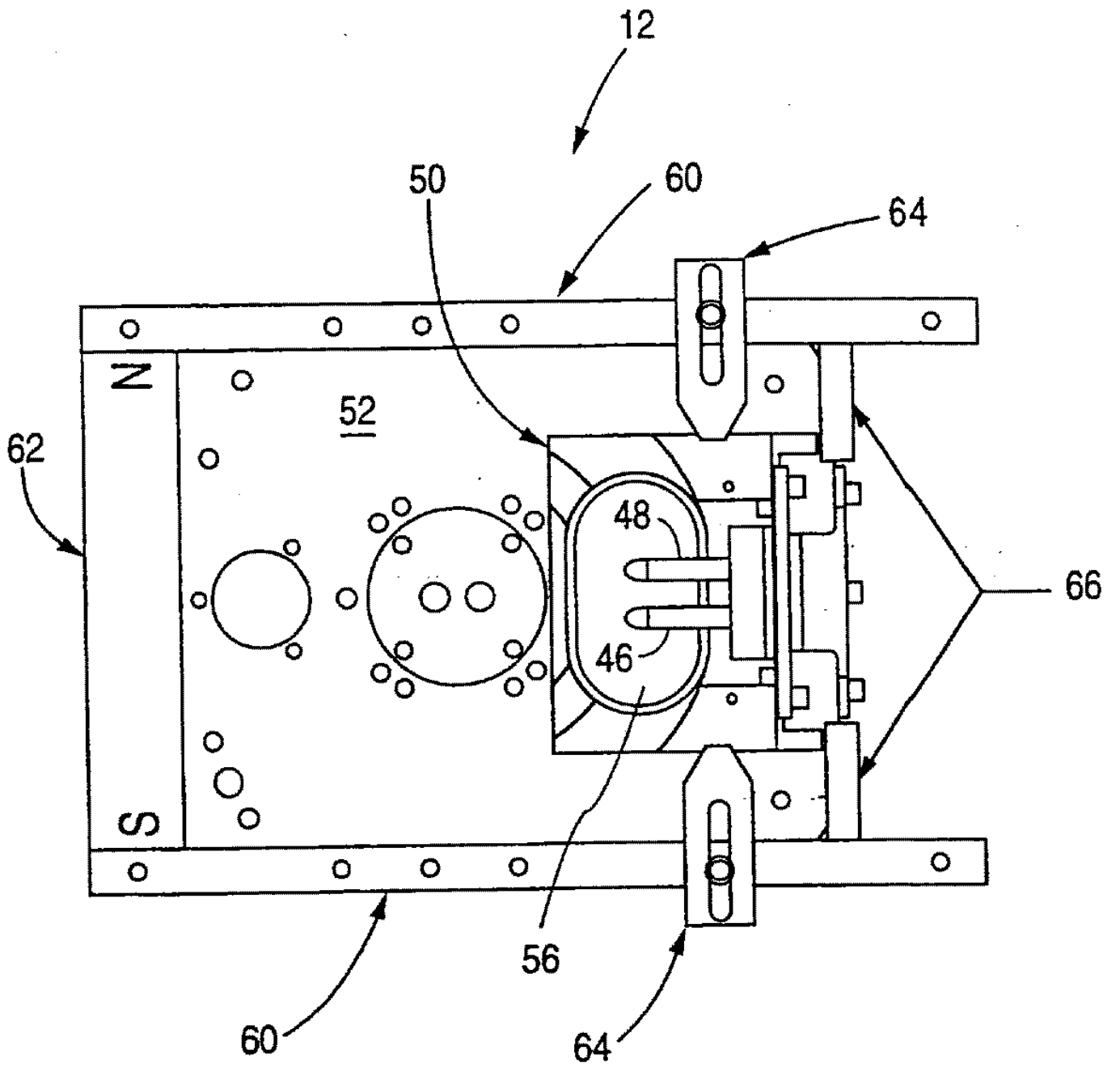


2b

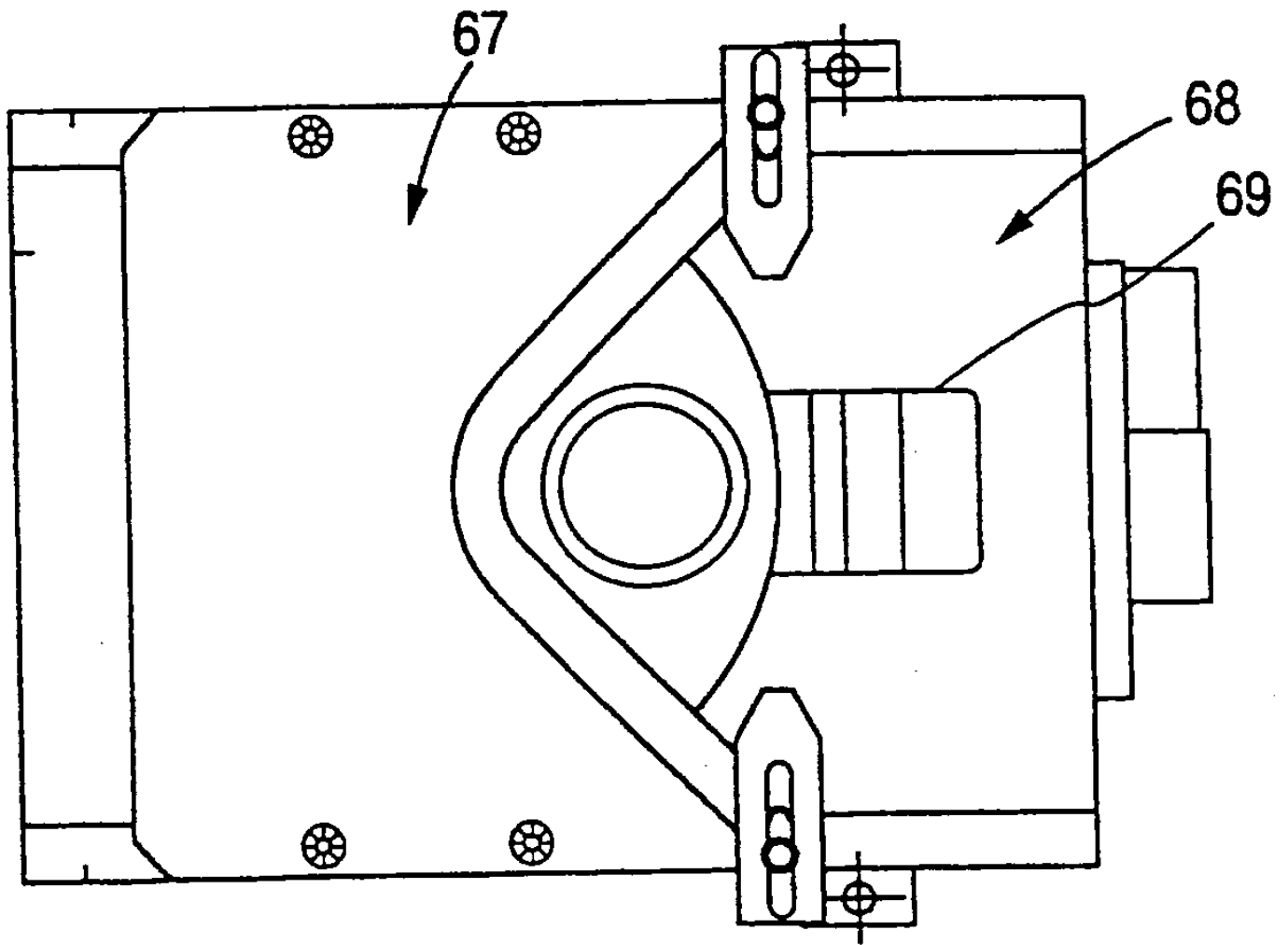




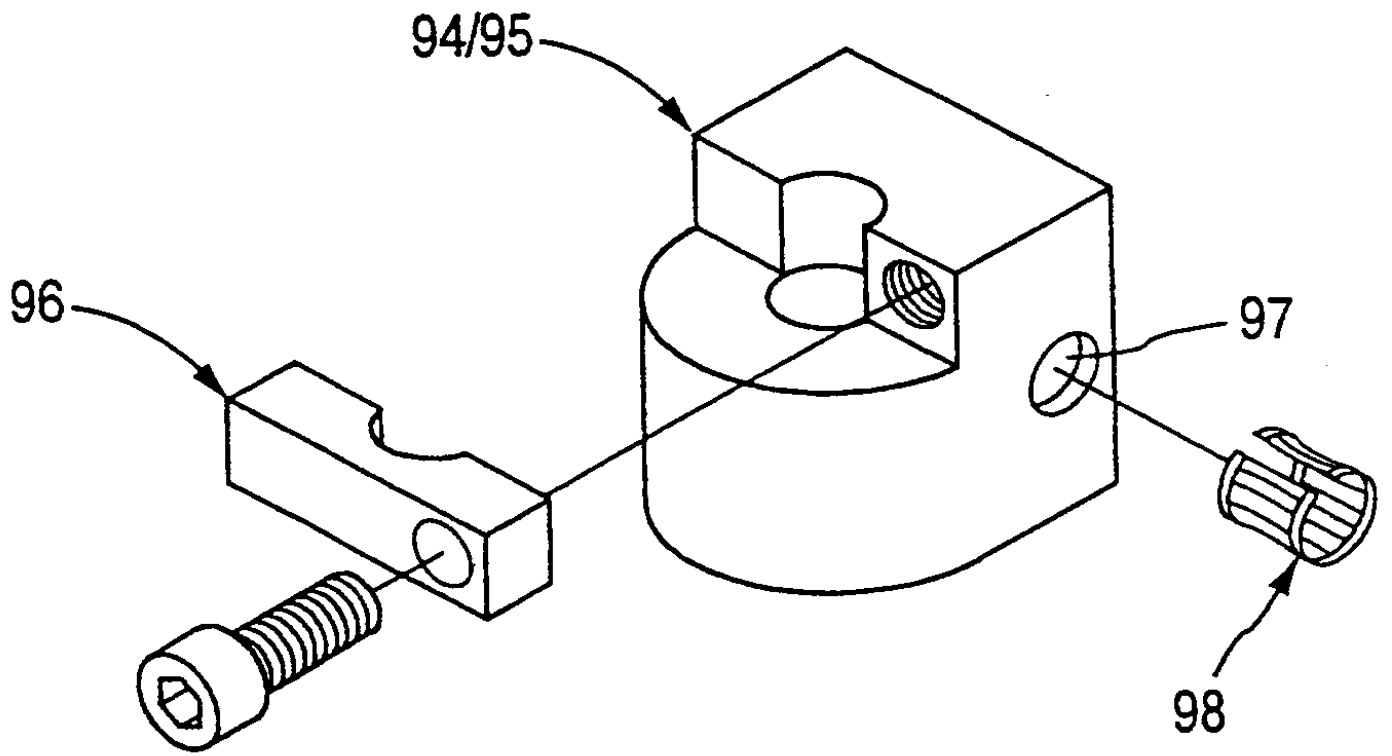
3a



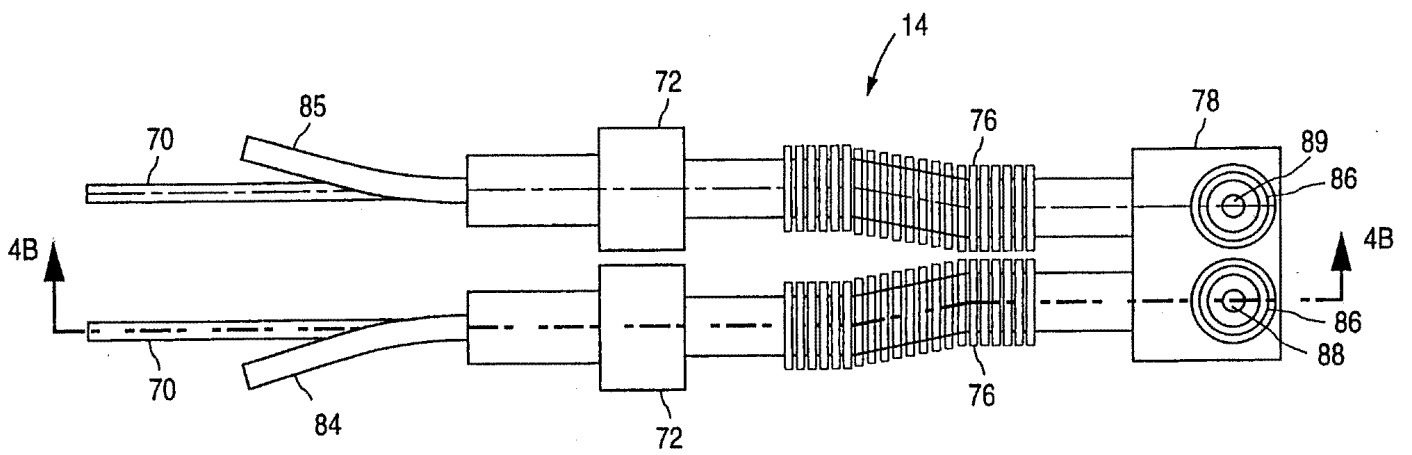
3b



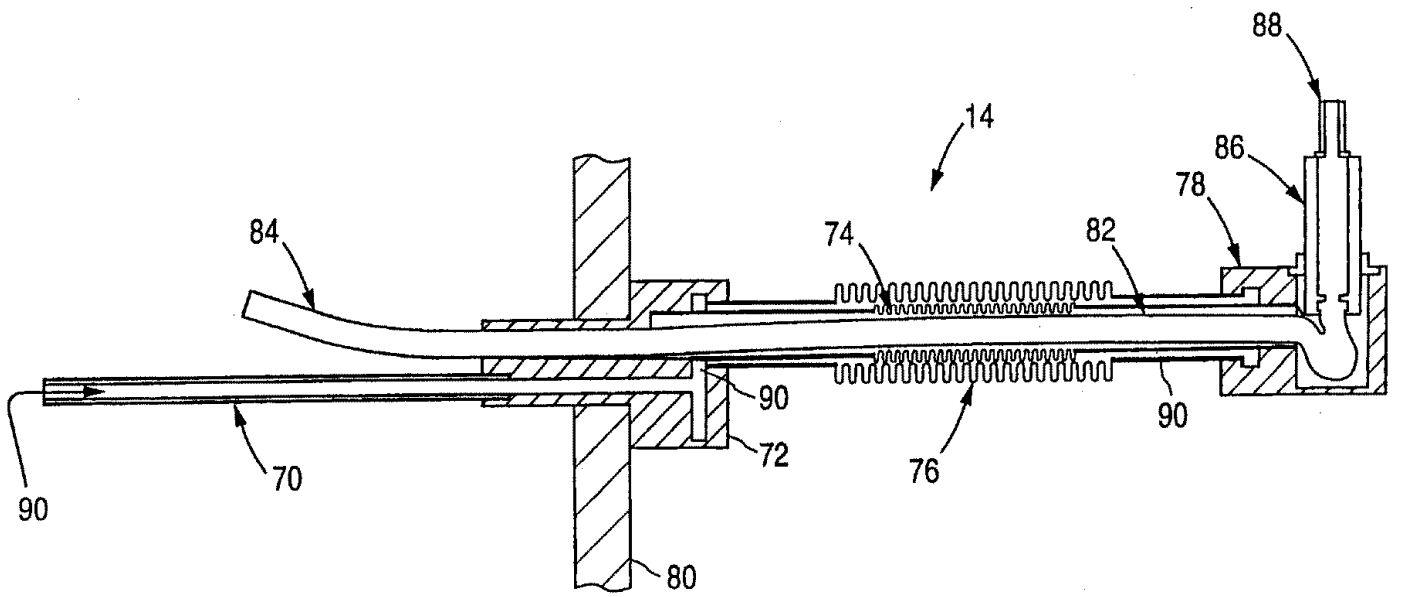
3c



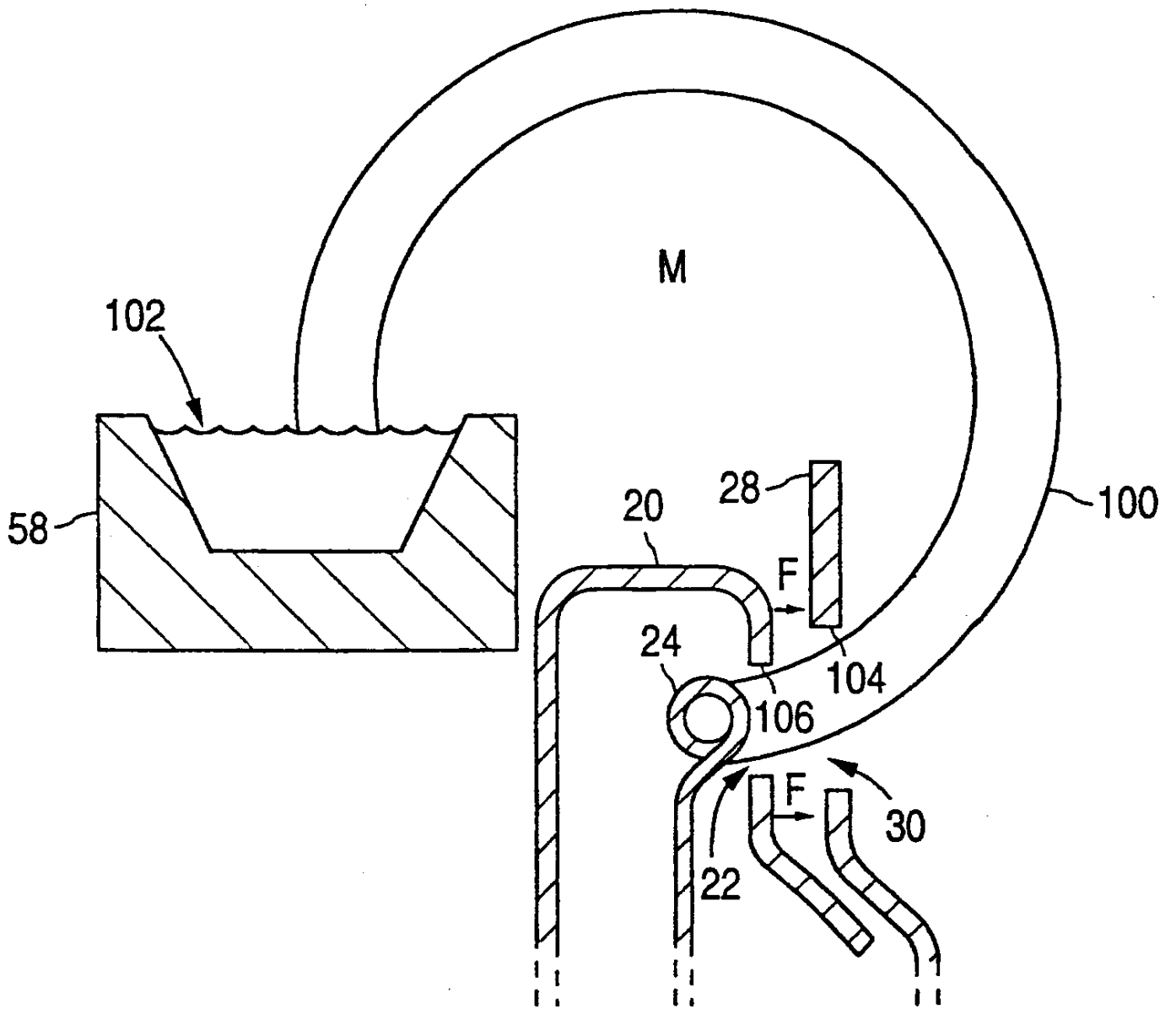
4a



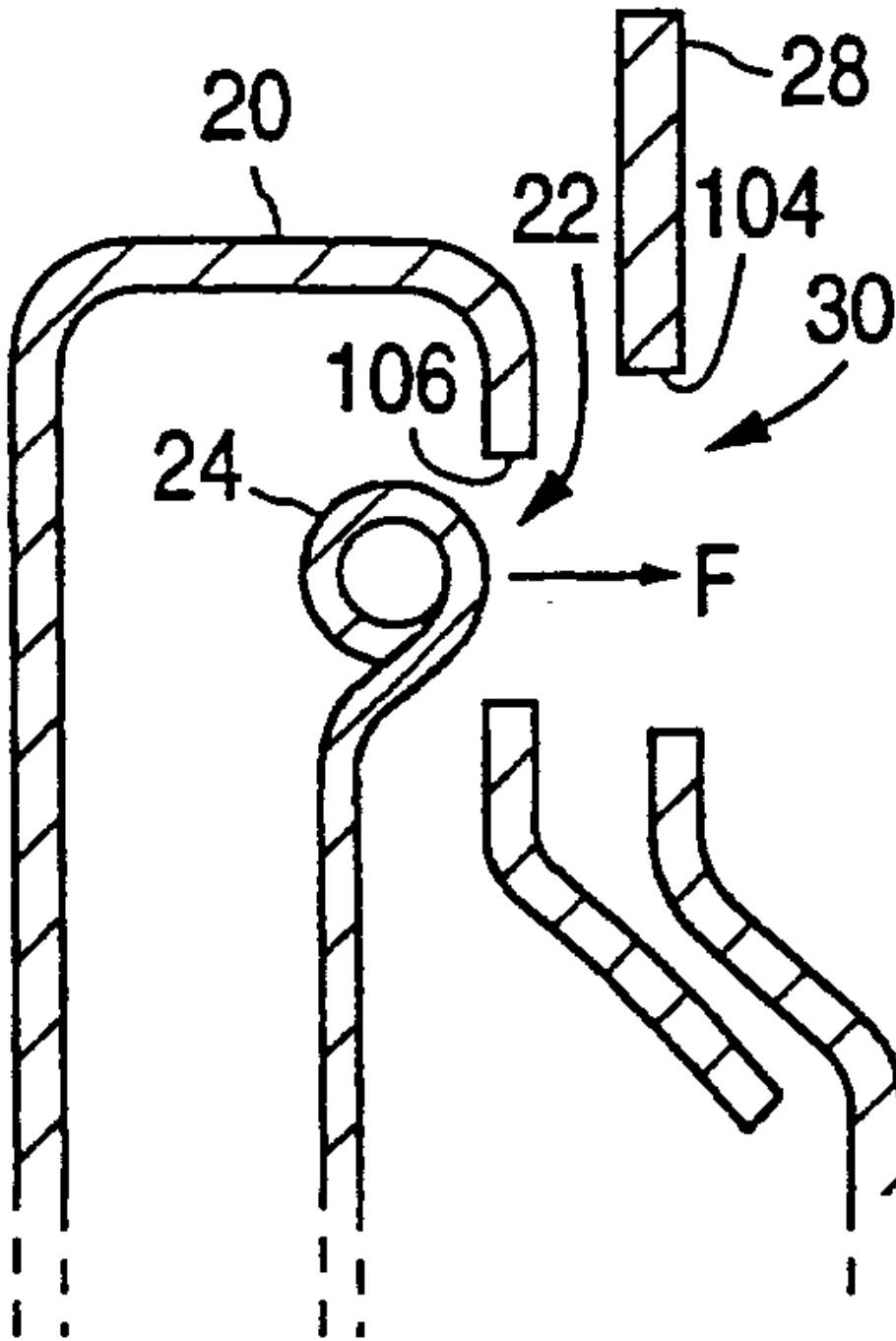
4b



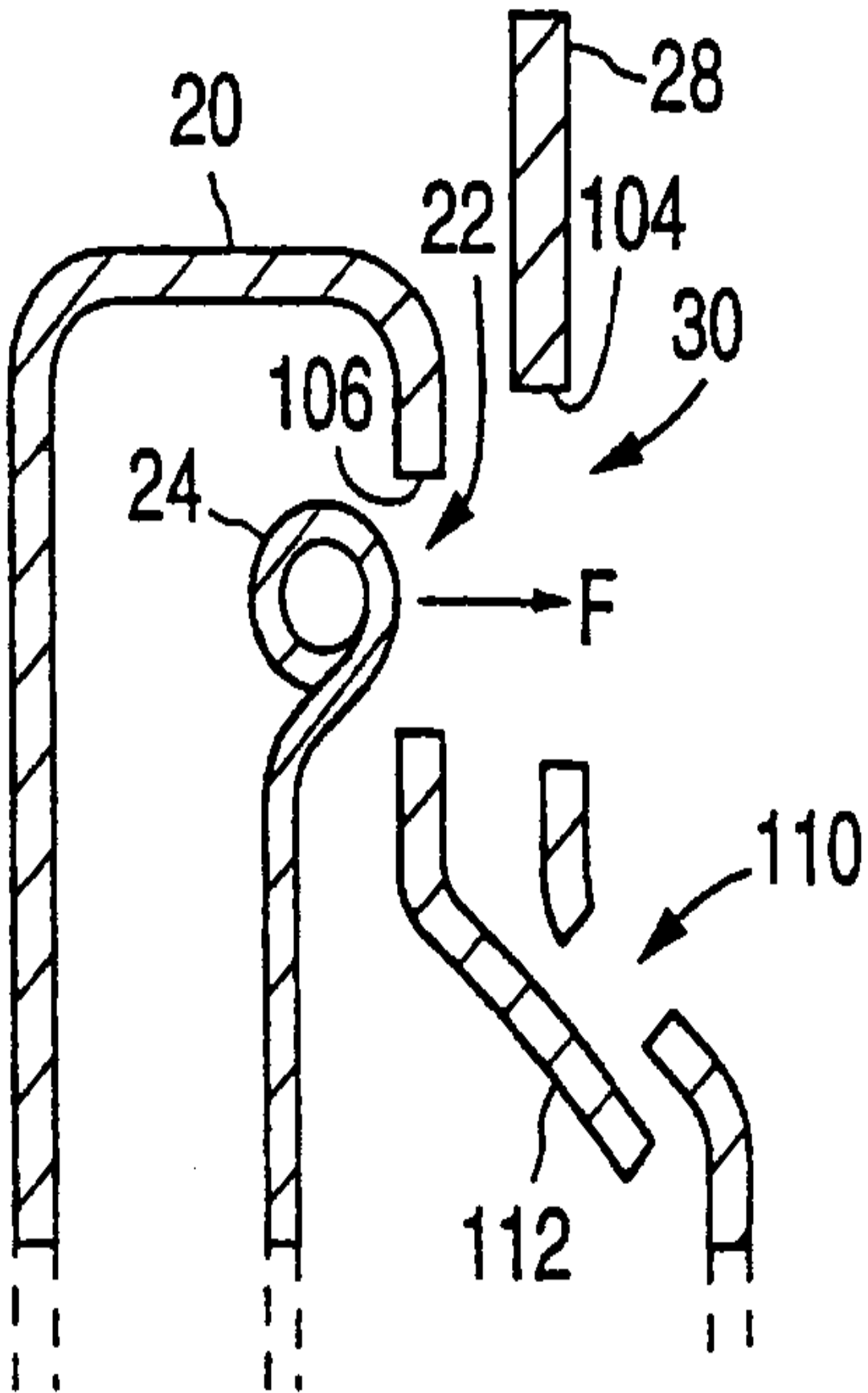
5



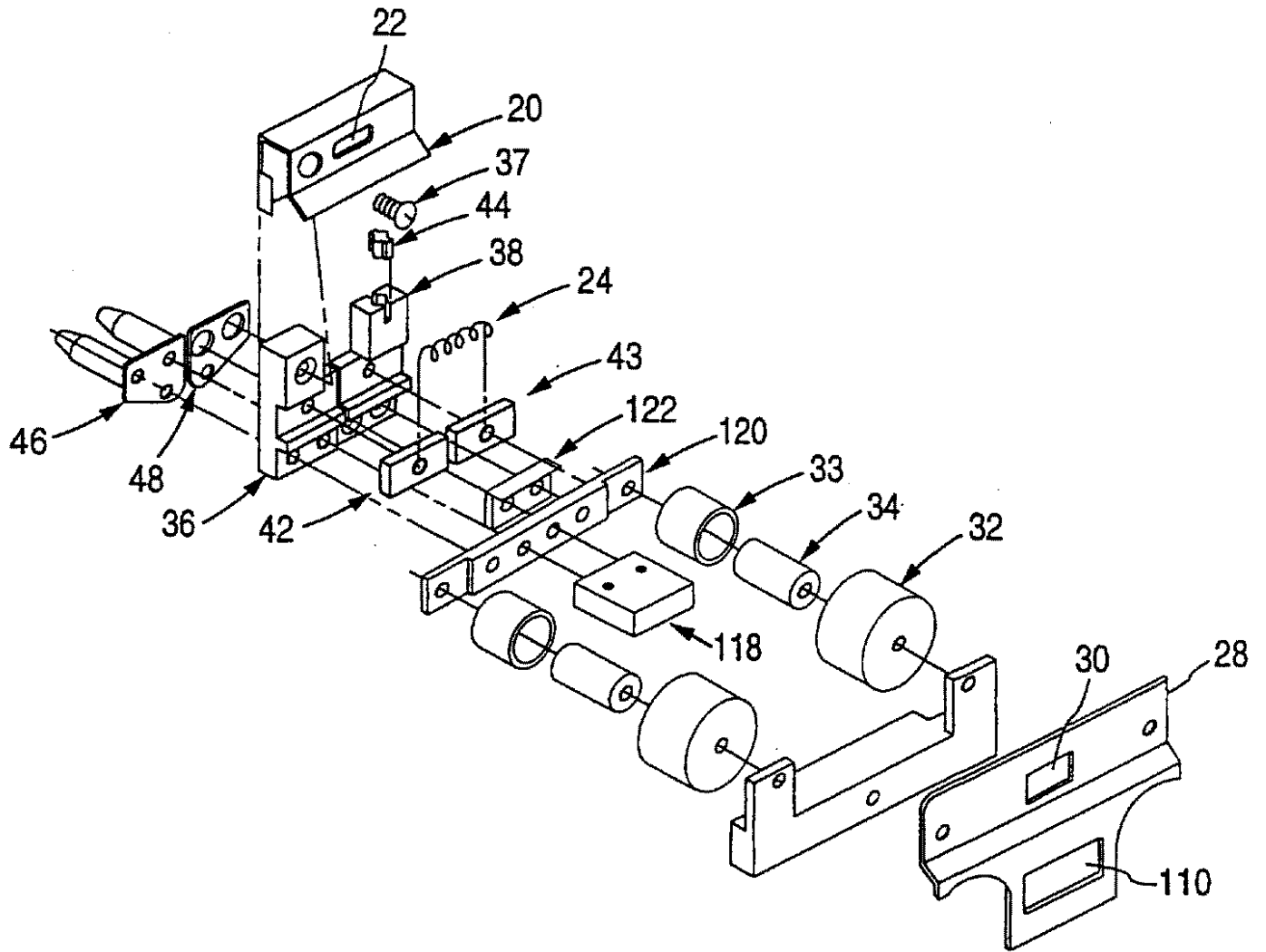
6



7



8



9

