

(19)  
(12)(KR)  
(B1)(51) 。 Int. Cl. <sup>6</sup>  
B21D 15/00(45)  
(11)  
(24)2001 12 22  
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2001 11 26(21) 10 - 1999 - 0036200  
(22) 1999 08 30(65) 2001 - 0000028  
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(54)

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,

.

가 가

(3)

,

(3)

(3)  
(80)

(3)

가

(70)가

(3)

(30)

.

, (50)

(60)  
가

(65)

,

(50)

(40)

.

， ， ，

1

2

3 2

4a (50a)

4b (50b)

4c (50c)

4d (50d)

\*

\*

1: 2: 3:

10: 11: 12:

13: 20: 21:

22: 30: 40:

50: 50a: 50b:

50c: 50d: 51:

52: 60: 61:

62: 63: 64:

65: 66: 67:

68: 가 70: 가 71:

72: 가 73: 가 74:

75: 가 80: 81:

82: 83: 84:

85: 86: 87:



(10) , (12) (21) (20) ,  
 (20) 가 (20)  
 (30) , (30) (20) (20)  
 (40) , (30) (40)  
 (3) (13) (30) (50) ,  
 (13) (30) (3) 가 (3)  
 (30) 가 (70) , (11) (120)  
 (30) (40) (3)  
 (80) .

, 2  
 , 3 2 .

(10) (11) (12) (13) 'ㄷ'

(20) (12) (21) (22)

(30) (20) (20)  
 가 (20) .

3 가 (40) (30)  
 (20) (20) .

(40) (13) (63) (60)가  
 , (60) (13) ' + ' (65)가 (6)  
 (64) ' + ' 'U' (66)  
 5) 2 .

(60) (61) (13) (62)  
 (20) (60) (67) (65)  
 (63) 'ㄴ' (67) , (50)  
 (66) (67) 가 (68)  
 (50)가 (67) .

(50) (30) 4  
 . , (50) (50a), 2 (50c),  
 50a), (刃先) (50d) , (51)  
 (66) (51) (52) (65) 4

가 (70) (13) (71) ,  
 (30) 가 (72) 가 (73) , 가 (7  
 3) (74) 2 가 (75) .

(81) (80) (30) (40) 2  
 (3) (3)

(88) , (80) (85) (87) (86)  
 (81)

(81) (82) (3) (3)  
 (82) (83) (84)

(81)

(80) (12) (121) (120)  
 (12) (122) , (122) (80)  
 (11) (123)

(40) (50) (3) (30)  
 (3) (90) (30)  
 (90) (13) (91) (30)  
 (12) (92) (30)가 (30)  
 (91) (30)  
 (90) (93)

(20) (102) (100)  
 (100) (13) (101)  
 (101) (100)가 (101)

(20)

(20) (13) (60)  
 (110) (3) (60)가 (111)  
 (60)가 (60)  
 (60)가 (21)

<

(80) (11) (102) (100)  
 (20)

, 가 (3) 가 (20) (30)  
 (3) . (3)  
 .  
 (3) (100) (20) .  
 (20) (100) (101) 가  
 .  
 , (3) (3) (40) (3)  
 . , (3) (3) 가  
 .  
 0) 가 , 가 (70) (30) (3) , 가 (7  
 (72) 가 (73)가 (74)가 (30)  
 (74) 2 가 (75)가 (3)  
 .  
 , (80) (3) 가 (123)  
 . , (122)  
 (80)가 (121) (81)가 (3)  
 (3) (眞圖)  
 , (3) (81) (82) (3)  
 .  
 , (62) (61) (60)  
 . , (60) (67) (30)  
 , (60)  
 , (64) (65) , (65)  
 (64) (60) (67) 가 (60)  
 (51) (52) 가 (68) (67) , (60)  
 (64) (60)  
 .  
 <  
 , (21) (20) (30) (40)가 (20)  
 . (63) (60) (67)  
 (50)가 (3) 가 , ,  
 ,  
 ; 4a , (50a) (3) 가 ,  
 (30) (40) 가  
 (30)  
 , (3)  
 (50a) (50b)

; 4b (30) , (40) (50b) (3) 가  
 , (30) (50b)  
 .  
 , 1 , 1  
 (3) 1 (3) 1  
 (40) 1 (3) (8  
 1) (82) (3)  
 .  
 ; 2 , 2 가 (40)  
 4c (3) 가 (50c)  
 ; 4d , (50d) (3)  
 , 3 4  
 .  
 (3) (30) (40) (3)  
 , 가 (3)  
 .  
 , (3) , 가 가  
 , 가 (3)  
 , (3) (80) (81) (82) (3)  
 , (3) 가 (70)가 (3)  
 (30)  
 , (50) (60) (65)  
 가  
 (50) (40)  
 .  
 (57)

1.

(11) (12) (13) 'ㄷ' (10) ,  
 (12) (21) (20) ,

(20) 가 (20)  
(30) ,

(30) (20) (20)  
(40) ,

(30) (40) (3)  
(13) (50) ,

(13) (30) (3) 가 (3)  
(30) 가 (70) ,

(11) (120) , (30)  
(40) (3) (80)

2.

1 (40) (13) (63)  
(60)가 , (60) (13)  
(64) '+' (65)가  
(65) (50)가 .

3.

2 (65) 2  
U' (66) , (66) (50)

4.

2 (60) (61) (13) (62)  
(20) (60)가

5.

2 3 (60) (63) 'n'  
(67) (67) (65) (66)  
(67) (50)

6.

5 (67) 가 (68)  
(50)가 (67)

7.

1 (50) (30)가

8.

2 , (50) (50a), 2 (50c), (50  
a), (刃先) (50d) , (65)

9.

3 , (50) (51) (51) (  
52) , (65) 4 (66) 가

10.

1 , 가 (70) (13) (71) ,  
(73) (30) 가 (72) 가 (73) , 가  
(74) 2 가 (75)

11.

1 , (80) (30) (40)  
(81) (3) (3)

12.

11 , (80) (85) (87)  
(86) (88) (81)

13.

11 , (81) (82) (3) (3)  
(81) , (82) (83) (84)

14.

1 , 11 , 12 13 , (80) (12)  
(121) , (120) (80)  
(12) (122) , (122)  
(11) (123) (80)

15.

1 , (40) (50) (3) (30)  
 (3) (90) (13) (91) (30) ,  
 30) (92) (30) (12) (90) (

16.

15 , (91) (30)  
 (90) (93) .

17.

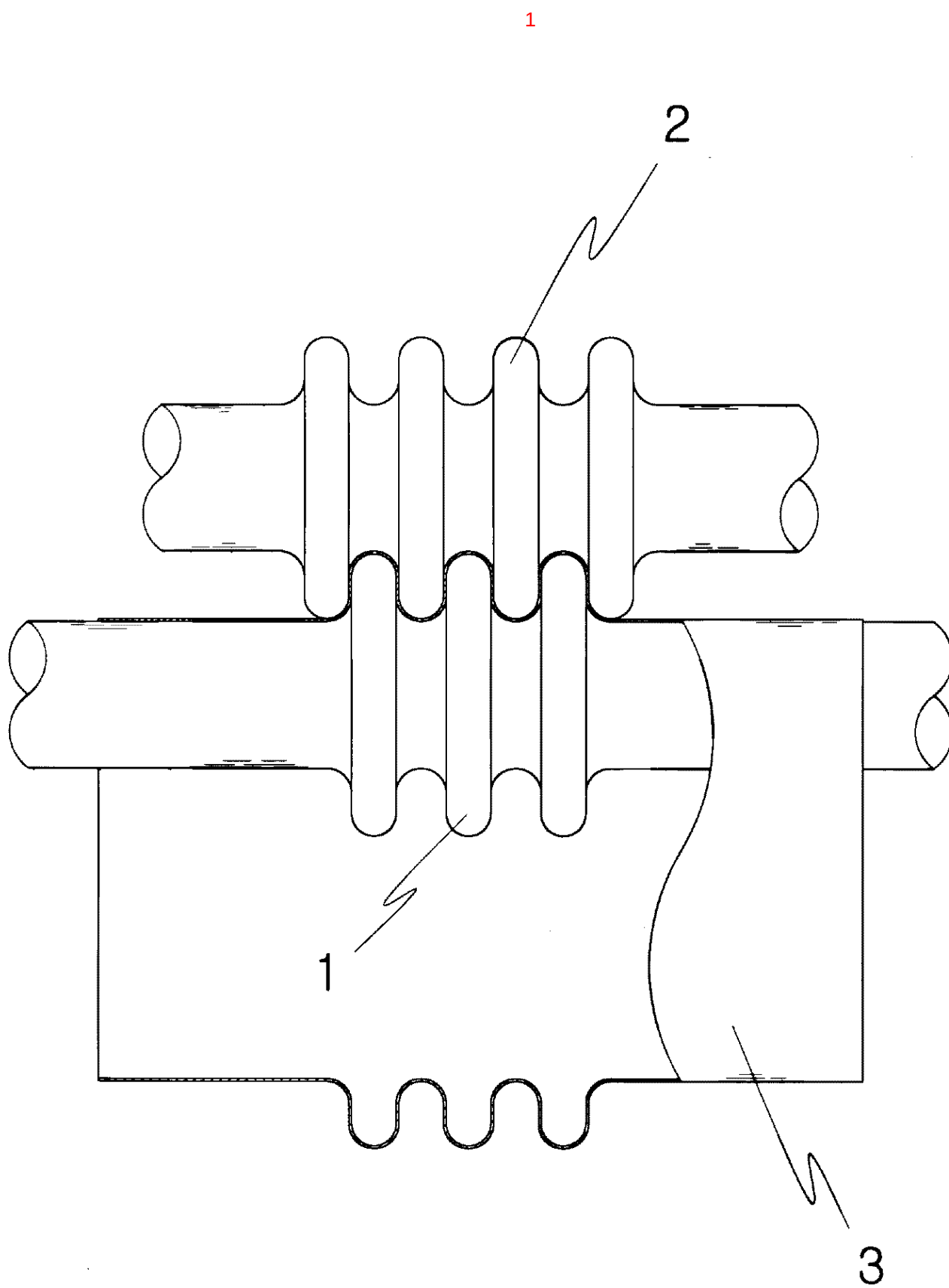
1 , (20) (102)  
 (100) , (100) (13)  
 (101) (100)가 (10  
 1) (20) .

18.

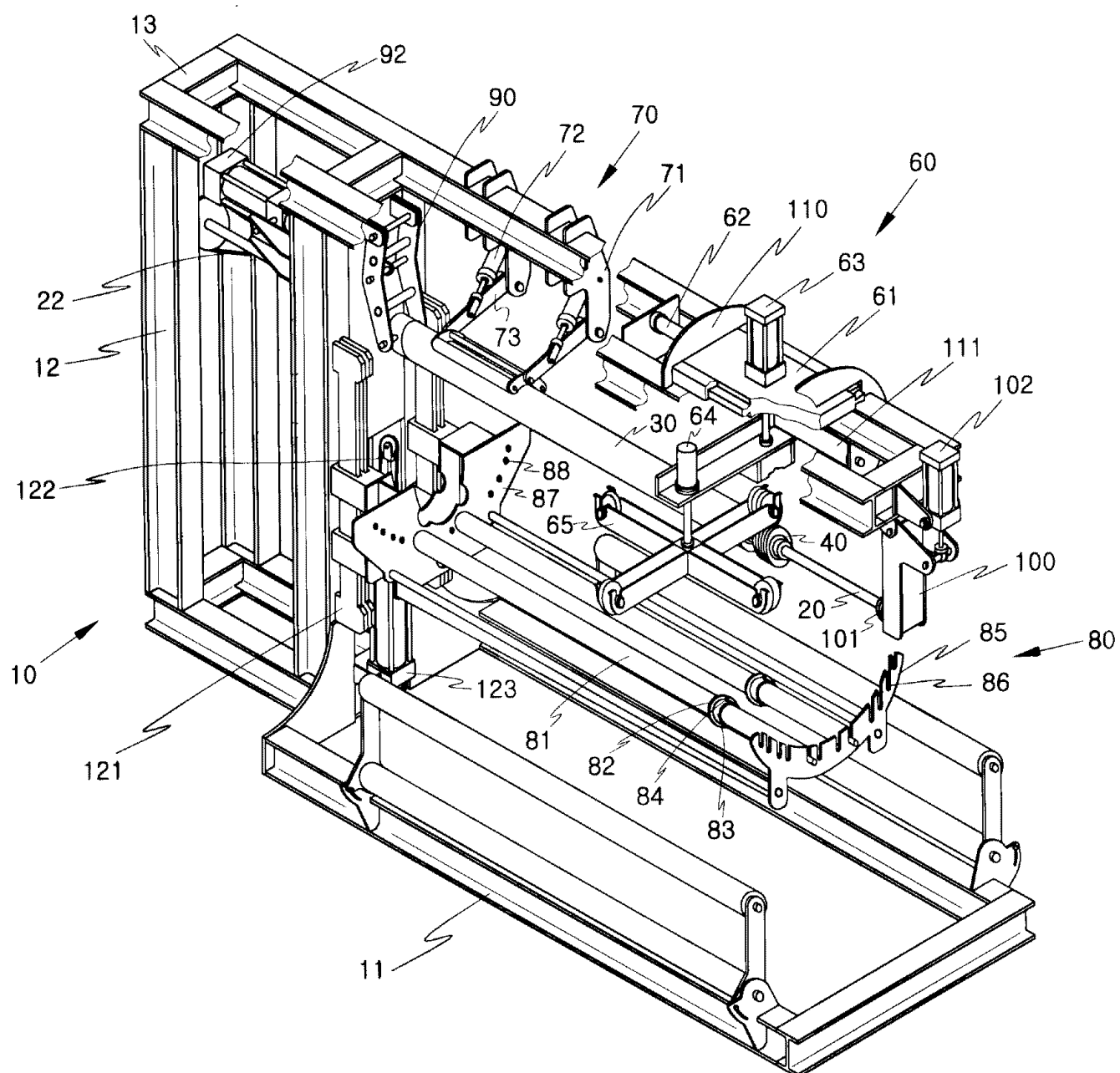
2 , (20) (13) (60)  
 (110) (3) (60)가  
 .

19.

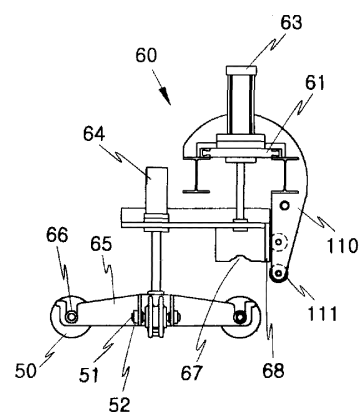
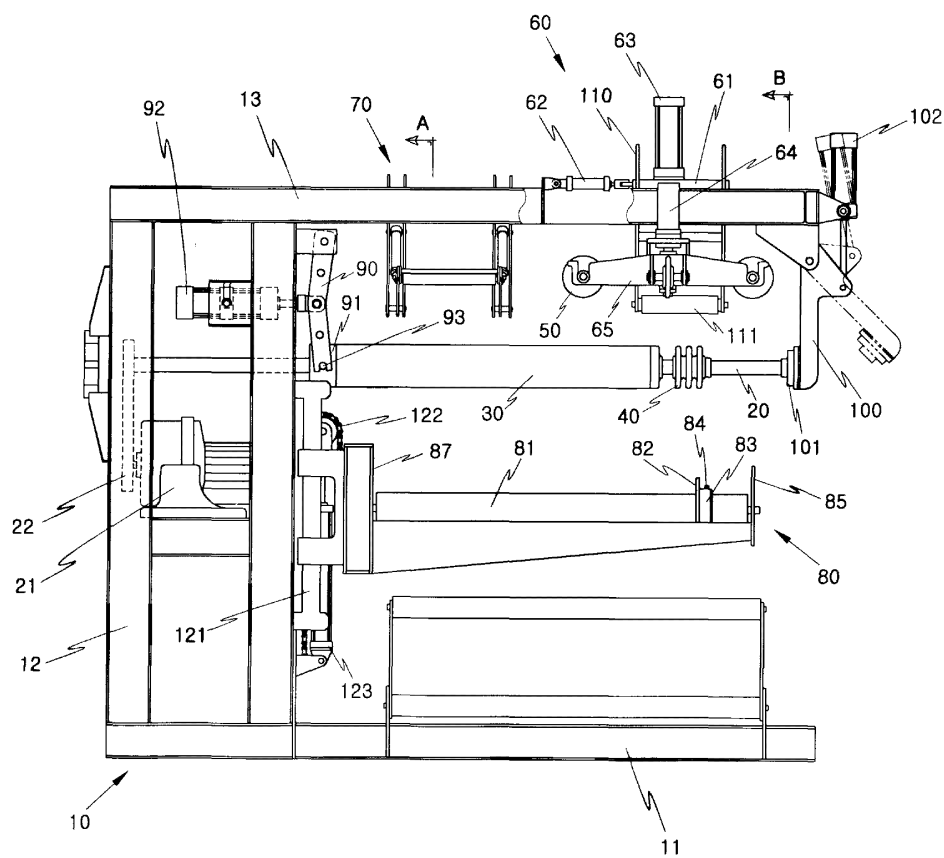
18 , (110) (60) 가 (111) ,  
 (60)가 .



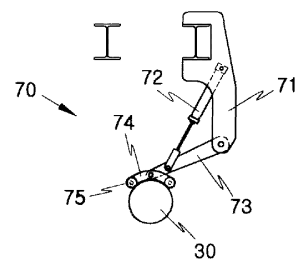
2



3

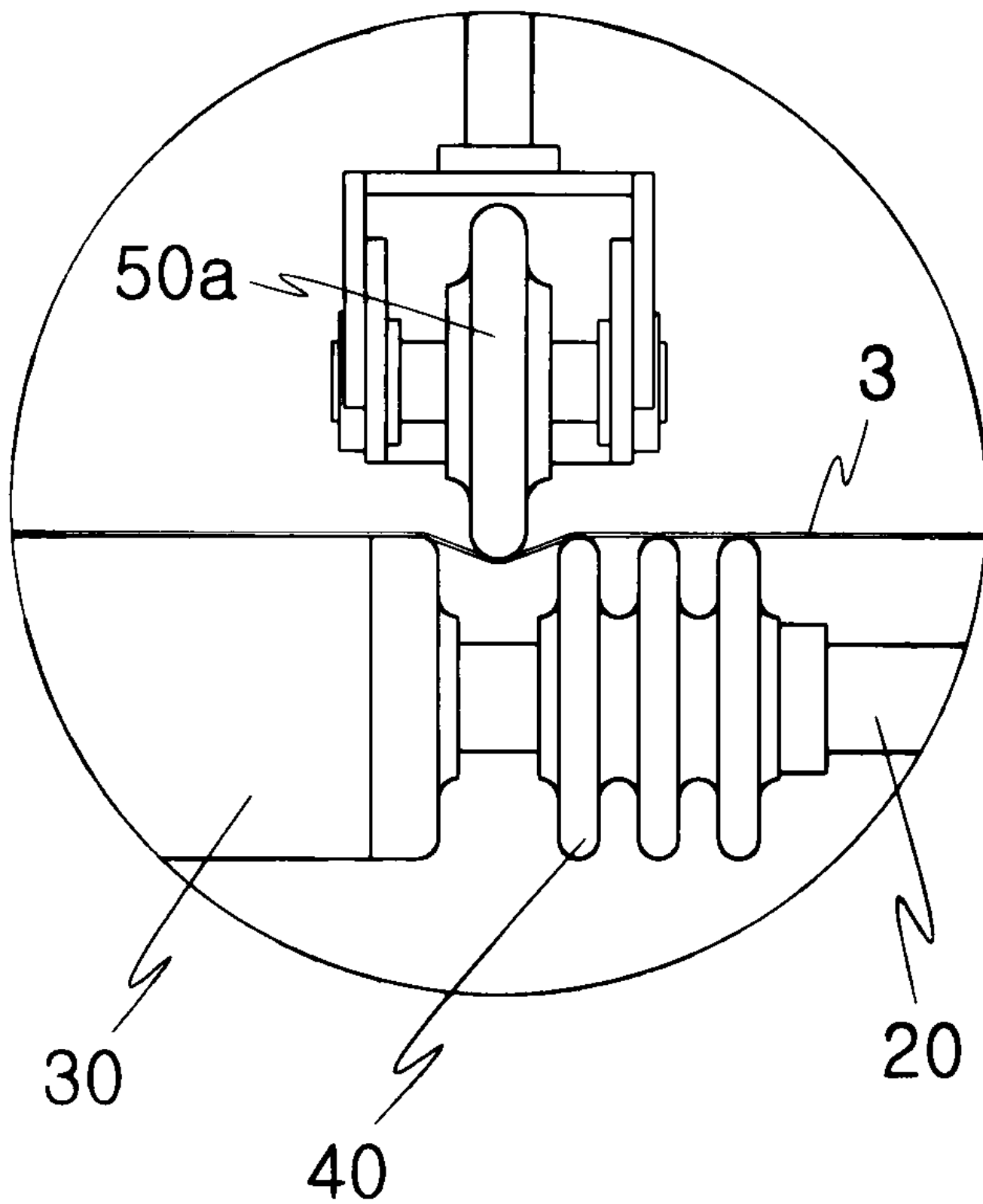


View A

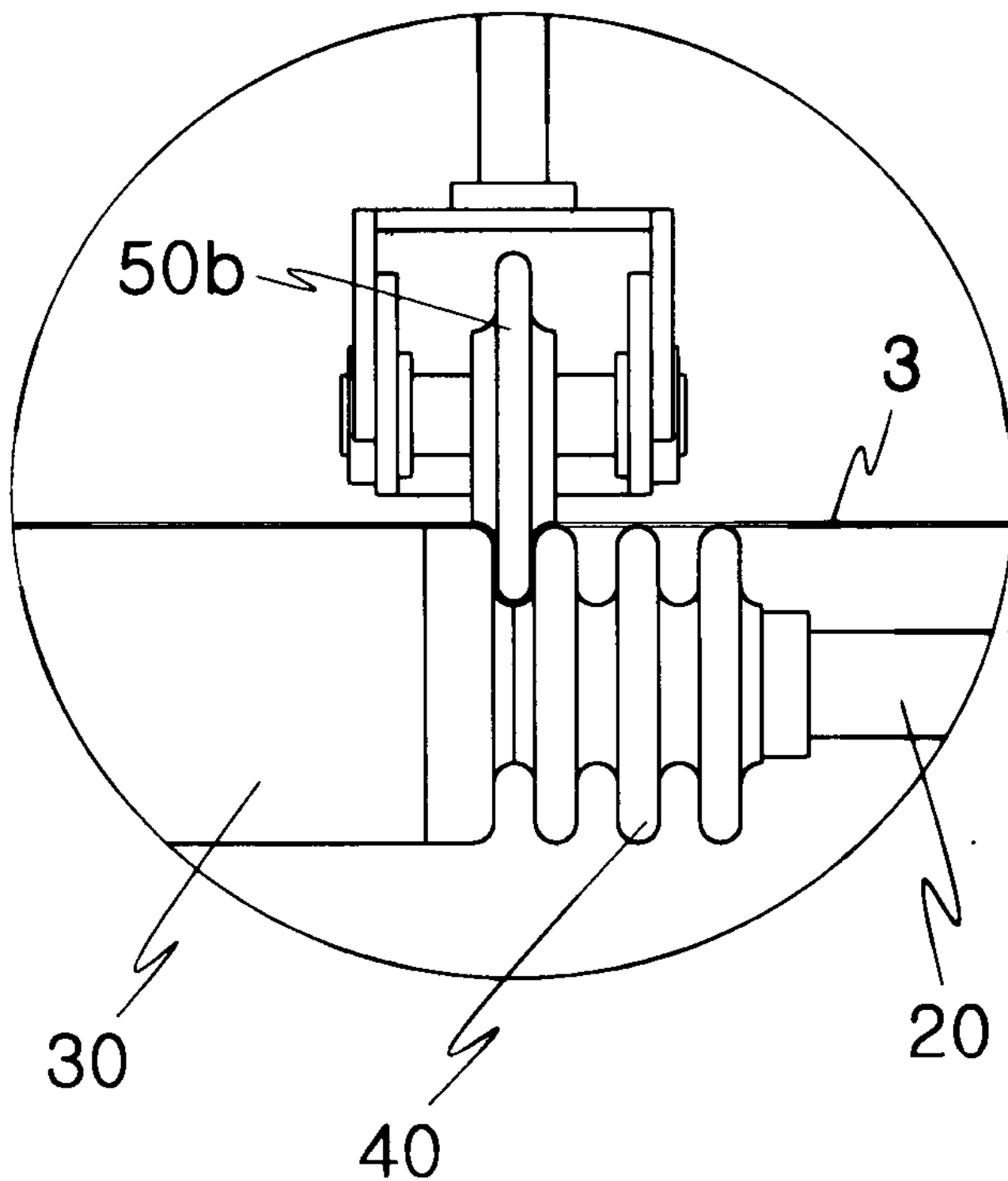


**View B**

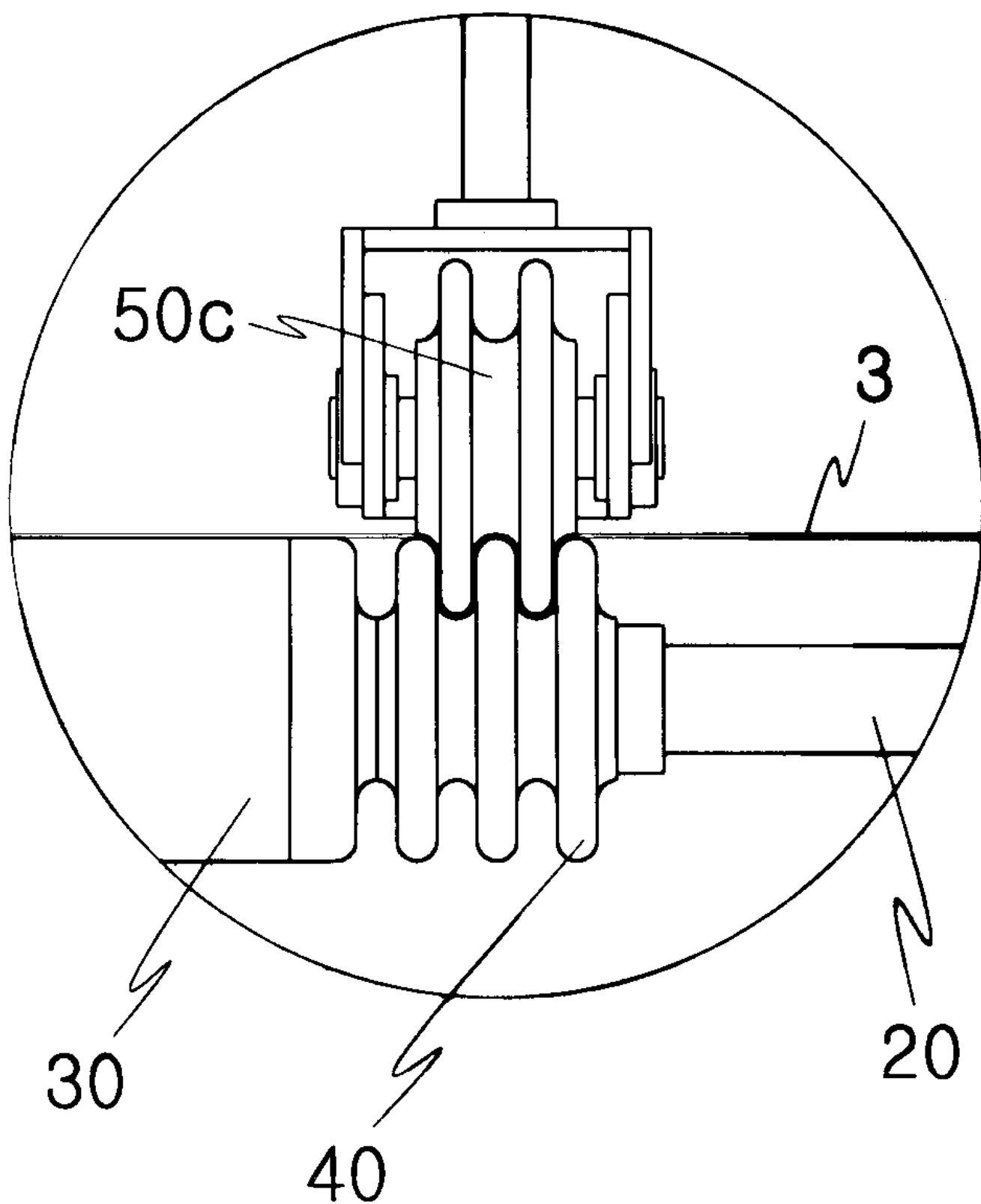
4a



4b



4c



4d

