

(19)
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(24)

2002 11 23
10 - 0362390
2002 11 12

(21) 10 - 2000 - 0086390
(22) 2000 12 29

(65)
(43)

2002 - 0058323
2002 07 12

(73) 3 416

(72) 832 - 1 205 - 1804
LG102 402

(74)
:

(54) -

1

2

가

가

가

2

가

(toner particle) 가 (可視)

가

(LSU)

(corona)

가

가

1999 - 29393 (1999 4 26)

가

가

가

가

가

가

가

가 , - /

2 1

가 ; 가 2 2 가 ;

4 3

2 3 가 1 가 가 가

3 가 가 1 2 1 ; 1 , 1 2 ;

가
 ; 1 2 , 1 2 , 3 4
 1 2 . ,
 , 1 2 1 1 가 .
 4 가
 3 ; 가 3
 , 3 4 ; , 3 4 .
 , 3 3 3 3 2 가 , 2 가
 3 가 , 가 가 3 가 , 가 4 가
 가 가 가 가 가 4
 , - .
 1 , (1) ()
 (4)가 , (2)
 (100), (100) 가 (200)
 ()
 (100) , (corona) (LSU; 7)
 (100) (101) (101) , (101)
 가 .
 , 가 - 가 가
 , 가
 2 3 - , 3 1 B-B ,
 2 1 A-A , 3 1 B-B .
 2 3 , 가 (200) , 가 (211) (100)
 가 (212) , (210) , (211)
 (100) (231) , (100)
 (212) (251) .

(231) (100) , 가 (111)가 (110) ,
 가 (151) 가 (131) , (251)

(231) (231) (210) , (251) (210)
 (131) (151) (100) (200)
 (251) (110) (111) .

2 101 , 102 , (210)
 (211) (231) (131) (100)
 (102) (101)
 (101) (101)
 (103) (104) (105)
 (106)

3 107 , (100) (105)
 (107) (151) (251) (200)
 (212)

(100) (131) , (200)
 (231) 1 (100)

4a 4b - , 4b (100) , 4a
 (200) (231) (131)

4a 가 , 1 (231) (210) (2
 11) 가 (212) , (212)
 (210) 가 (213) (212)
 (211) 가 (231) (212a)
 (213) , (212)가 (231) (212a)

, 2 (210) (233), (233)
 (210) (232), (232) 2
 (130) (134; 4b) (235) (235)
 (235) (134) (236) , 가 (235a)
 , 237 (133; 4b)

4b , (110) 가 (131)
 (133) , 1 (230) (132) (133)
 (134) , (110) (133)

(200) (136a) 가 (136)가 가 (136) (100)
 (235) 가 (235a)

5a 5c (100) (200) (131)

5a (100) (1) (200) (1)
 (111) (230) (237) (100) (133)
 (235) (232) 가 (236) 가
 (133) (200)가 (1) 가 5b (233)
 (131)가 (133)가 (200)

5c (200)가 (1) 가
 (231) (131) (235) (134) 가
 (213) (212) (212a) (231)

134 (100) (200) 5c (133) (1)
 (200) (1) (200) 5b (235a) 가
 (235) (133)가 (200) (235) 가 (235a) 가
 (136) (136a) (235) (134) (1)
 (133)

6a 6b 6a
 6b

6a (100) (151) (152) (200)
 (200) (251) (252) (200) (2)
 (100) (152) 3
 52) (100) 4

(252) 3 (252) (210) 가 (251) (251)
 (155; 6b)가 (252a)가 (253)가
 (252) (252)가 (251)

(200) 3 1 2 (254)(255) 3 4 (257)(
 258)

1 (254) (252)가 (251) (252)
 () (210) 가 1 (254)
 1 (254)가 (252) 2

(256) , 2 (256) , 1 (254) 1 (254) 1 (254)
 7a 7b , 1 (254) (254a) 2 (255) (254)(255) , (255a)가

1 2 (254)(255) (200) (100) , 6b
 (152) 1 2 (153)(154)

58) 257 3 , 258 4 , 3 (257) 4 (2
 (210) (252)가
 6b 2 (156) 4 (158)

6b , (152) (110) 가
 (151) , 4 (158)가 1 (153) 2 (154)
 (152a)

200) 4 3 4 (155)(158)

155 3 , 3 (155) (151) 가 ,
 (252) (252a) (252) 3 (155)
 (100) (200)가 (252) 2 (1
 56)가 , 2 (156) 3 (257)
 (157)가 3 (155)가 , 3 (155) 1
 (252)

158 4 , 4 (158) (152) 3 (1
 55) (110) 가 , (152a)
 (152) 4 (158) (158c) (152
 a) (158a)가 가 (158b)가 (200)
 (100) , 가 (158b)가 4 (258)
 4 (158) (158c) (158a)가 (152a) 4 (158)
 2 (159)가

7 8 (100) (200) (251) (151)
 a 8b I - I , 7a 7c 6a I - I , 8
 , 6b II - II

7a , (100) (1) (200) (1
 00) (111) , (252) (152) 가 (254)
 2 (255)가 2 (154) , 1 (254)
 2 (255) , 1 (254) (252)
 , 8a , (152) 4 (158) (158a)가 (152a)

1

2

-

2.

1 , ,

;

가

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;

-

3.

1 , 1 ,

가

,

;

2

가

;

-

4.

1 3 , 2 ,

;

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-

5.

4 가 , ,

가

,

가

가

가

-

6.

1 ,

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,

,

3

,

4

-

.

7.

6 , 가 1
, 2 3 - .

8.

6 , 가
, 4 가
- .

9.

8 , 가
- .

10.

6 9 , 3 ,
가 가 1 ;
1 , 1 2 ;
가 3
4 ; ,
1 2 , 1 2
- .

11.

10 , 1 1
, 2 1 가
- .

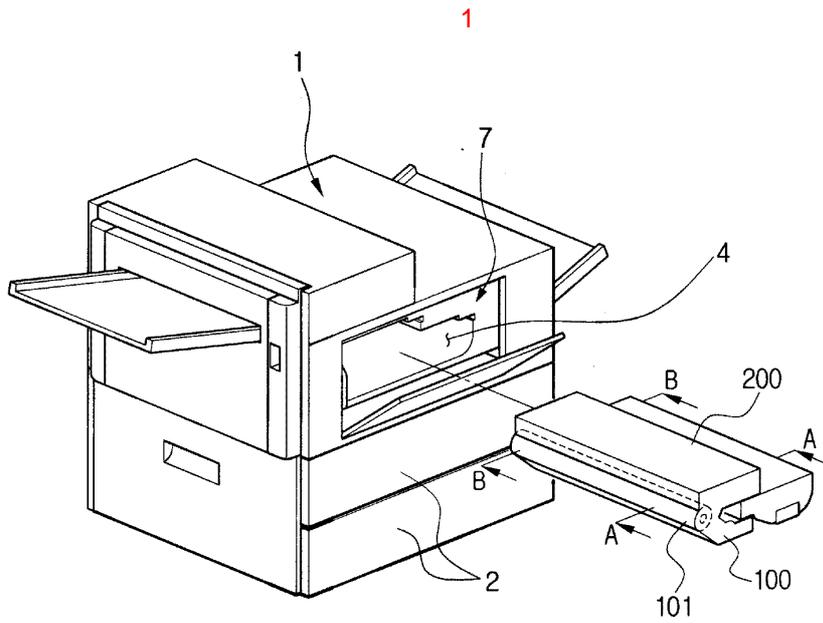
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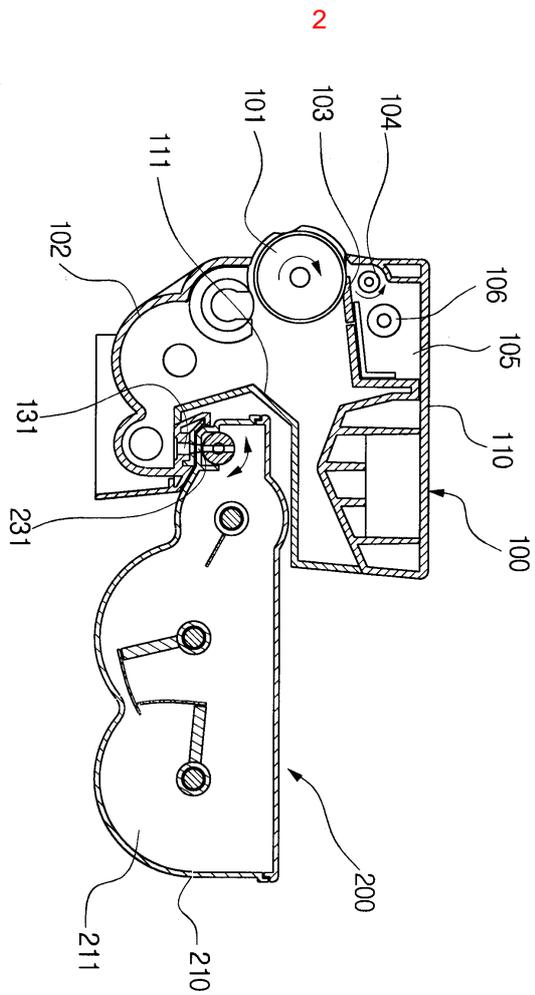
10 , 4 ,
가 ,
3 ;
3 가
4 ; ,
3 4 , 3 4
- .

13.

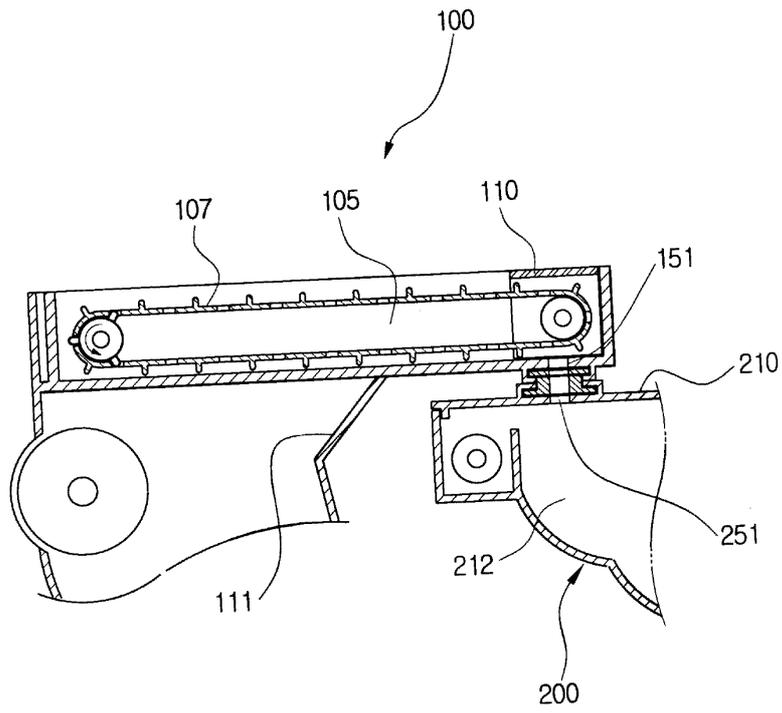
12

3 ,
3 3 2 가 , 2 가
3 가 ,
4 가 , 가 가 가 가
4

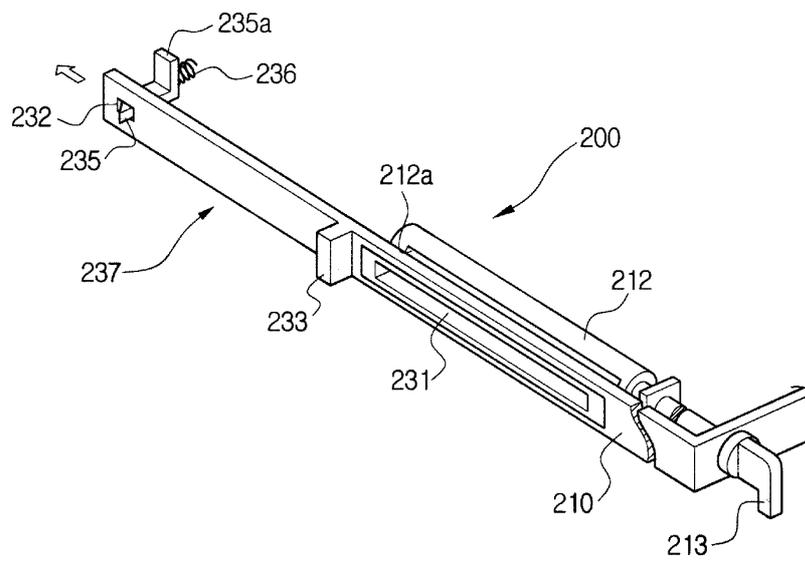




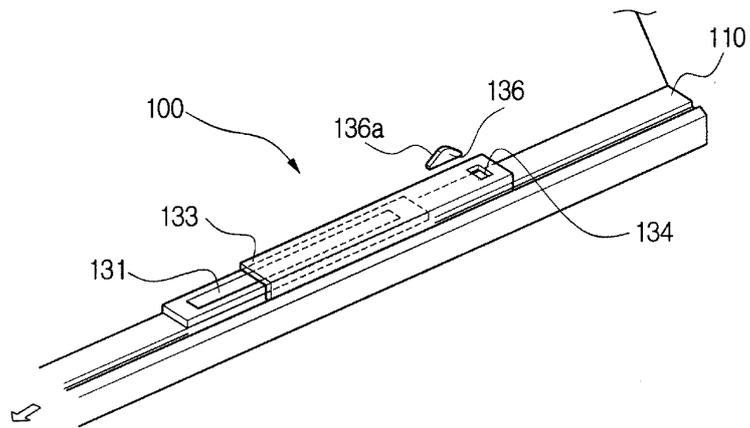
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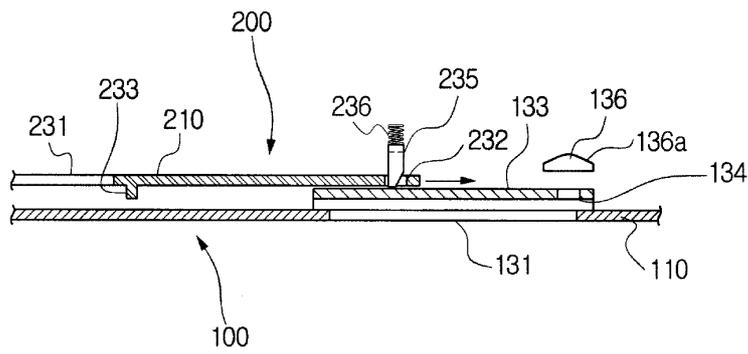
4a



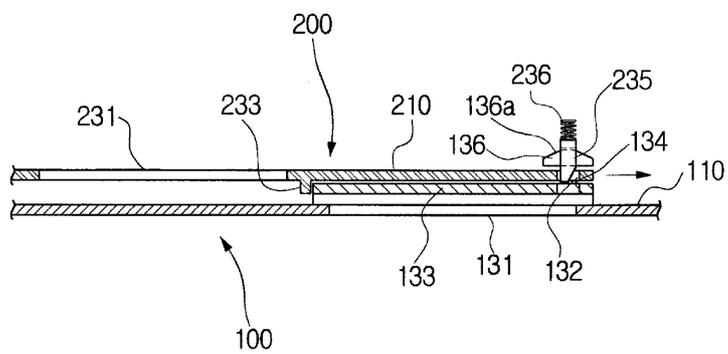
4b



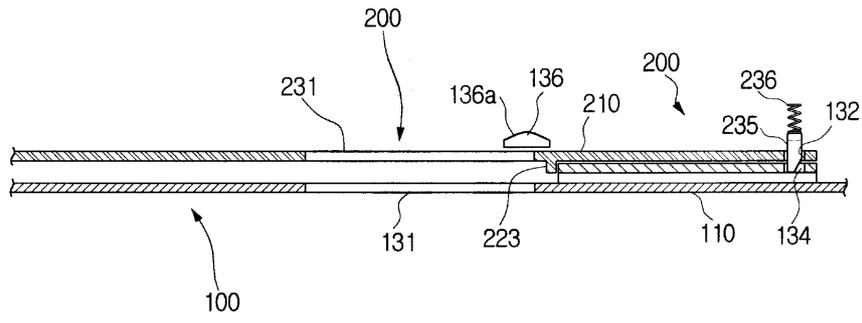
5a



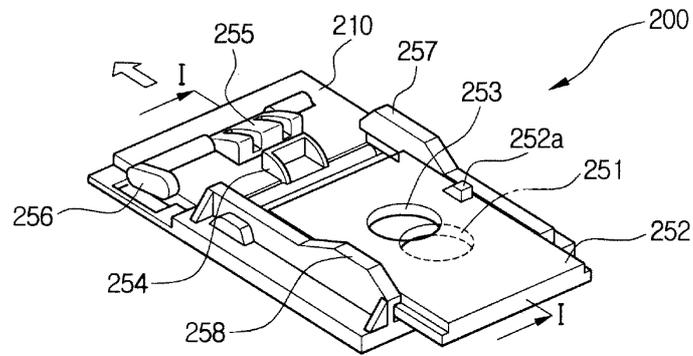
5b



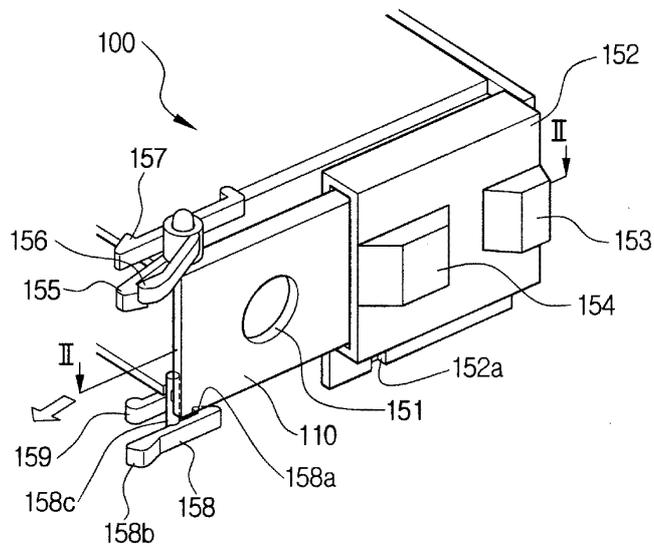
5c



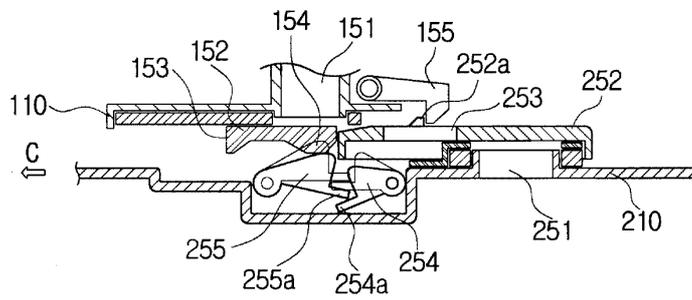
6a



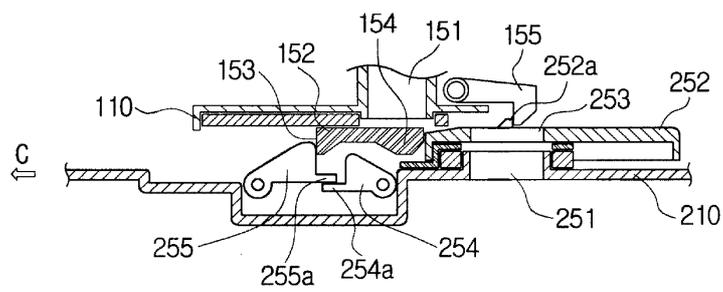
6b



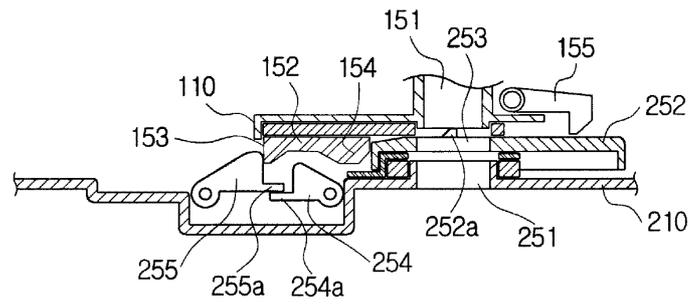
7a



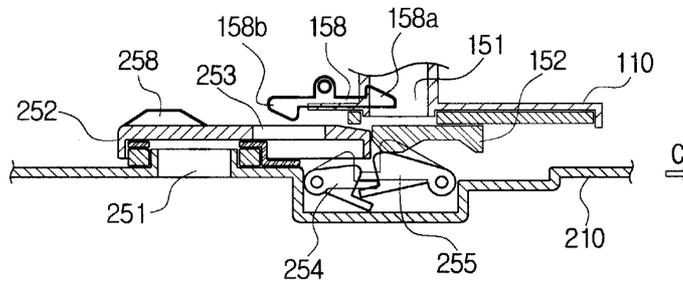
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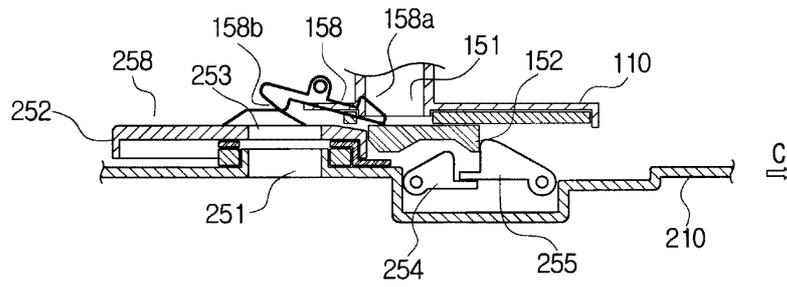
7c



8a



8b



8c

