

(19)  
(12)(KR)  
(A)(51) 。 Int. Cl. <sup>7</sup>  
B21B 15/00(11)  
(43)2003 - 0008864  
2003 01 29(21) 10 - 2001 - 0043865  
(22) 2001 07 20

(71) 1

(72) 700

(74) :

(54)

가

1

2a

2c

3

4a

4c

<

>

1 :

10a :

10b :

20a :

20b :

30 :

40 :

50 :

70 :

90 :

100 :

110 :

가

(shear)

( )

( , )

1

1 ) , ( ) (10a) , (10b) .

(20a) (20a) (20b) (25) (30) , (27: 2a )가 .

( ) (25) , , 가 (20b) (40)가 (50) (40) 가 .

(50) (40) (20b) , (60) (65) (60) .

(60) (1)가 , (1) (90) , .

(1)가 , (70) (60)가 , (80) (1) .

2a 2c .

2a (5) 가 , (5) .

(70) (60) (5) .

2b (10a) ( ) (5) (50) (40) , (40) 180 (20b) (5) .

(50) 가 (40) , (20b) (50) , .

(5) (5) (5) .

(70) (5) (60) 2c , (60)가 (80) .

(S) (10a) (80) .

(1) 가 , (S) (5) (10b) .

(S) (80) , (20b) (80) (20b) .

(20b)

(27)

(S)

(10a)  
(80)

(S) , (30)

(5)

20 - 1995 - 017858

가

가 ,

3

가 (100) (100) , (20b)

(100) (103) , (20b) (105)  
(103) (100) (20b)

가 (100) , (100)  
(20b)

(70) (100) (20b) ,  
(70) (100)

(100) (115) (110)

4a (5) 가 , (5)

(70) (100) (90) (1)

4b (10a) ( ) (5) (50)  
(40) , (40) 180 (20b)  
(5)

(50) 가 (40) ,  
(20b) (40) ,

(5) (5)

(5) (100) (70)

가 (100)

4c , (S) (10a) , (100)  
00)

(110) (S) , (10a)  
(S)

(S) (S) 가 (110) (10a) ,  
(S) 가 (110) (110)

(S) 가 (70) (100)  
(10a)

(10a) (80) (60)

(100) (110) (90)

가 , 가 가

가 .

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(57)

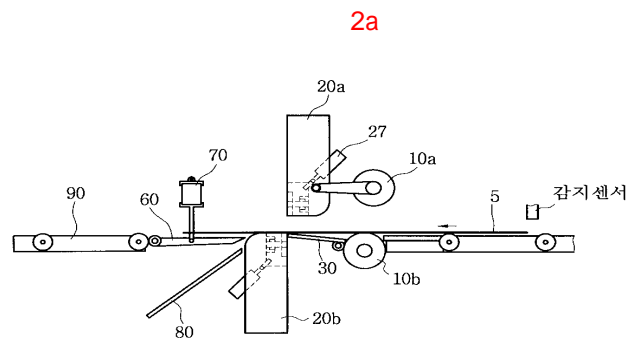
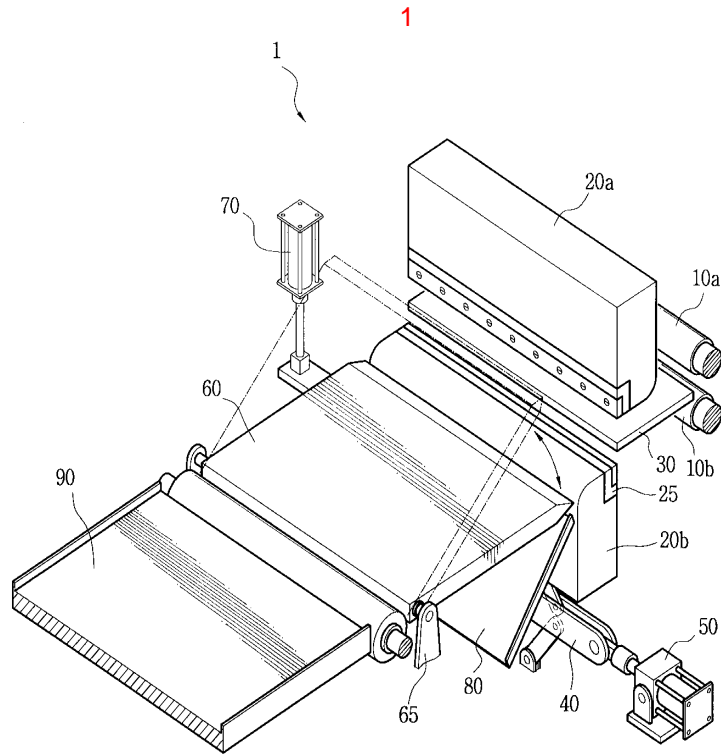
1.

,

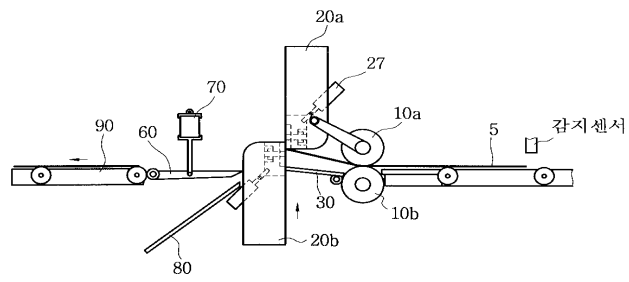
00) (20b) (20b) (5) (70) (70) 가 (1 (100) (S)

2.

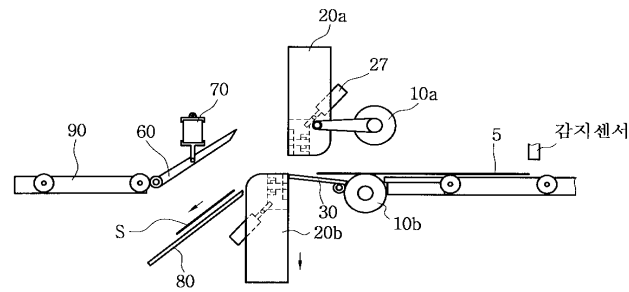
1 , (100) (115) ( 110) , (S)



2b

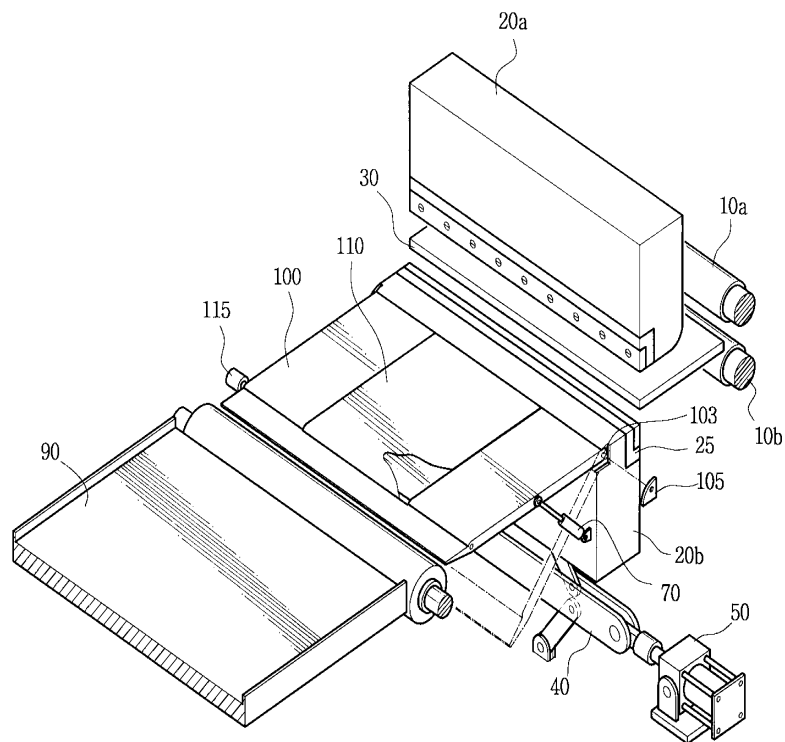


2c

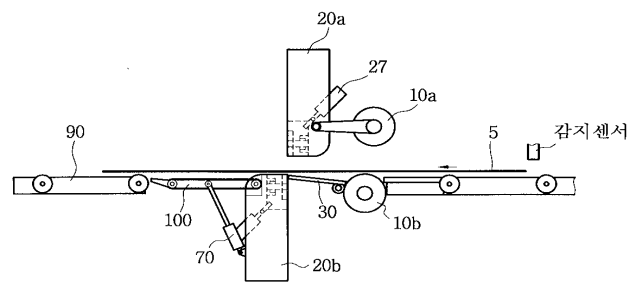




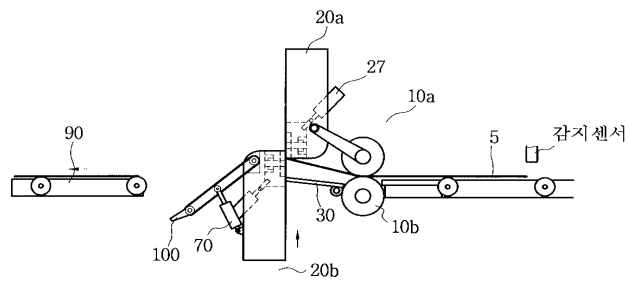
3



4a



4b



4c

