

(19)  
(12)

(KR)  
(A)

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(22) 2002 11 19

(30) MI2001A002445 2001 11 20 (IT)

(71) , ( ) 15076 , 23

(72) , ( ) 15060 , 11

(74)

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(54)

3) , (33) (A, B, C) (K) , (3  
가 1 (X, R) 가 2 가 (13) (Y)

1

1, 2 3

4

5 4

6 4 A-A

7

8a 8b 4

< >

2 : 1 8 : 2

4 : 13 : 2

17 : 27 :

29 : 33 :

34 : 1 46 :

A, B, C : K :

1

(rounding)

(finishing),

가 (polishing)  
(radiusing)'

가 (roughing),

가 (

(template)

가

가

(radiusing)'

7, S, K1 K2 ( 7 ) (transiti  
on)  
4, 5 6 (bed, 1) (1) 가  
(3) 가 1 (2) 가 (3) 4 (4) (7)  
1 가 (2) (6) (1) 가 (5) (7)  
1 가 (2) , 가 (3) , 2 가 (8) (X)  
), 1 (2) (10) 1 (2) 가 (11) 2 (8) X (12)  
2 (8) 'L' (13A) (13) (13)  
A) 'L' (14) 가 (15) (18)  
(17) (15) 가 (16)가 (17) (radial) (thrust) (18)  
'L' 가 (17) , 4 (17) (21) 가  
(20) (20, 21, 22 23) (22) 가  
90. (17)  
가 (17) (28) (27) (26)가  
(dovetail) (25) (24)( 5 ) 가  
(28) (28A) (knob, 30) 가  
(29)가 (29) (17) (24) (31)  
) (undercut slide) (31)( 6 45 (Z)  
(27) (A, B, C) (33)  
(32) (32) 'Z' (35), (36)  
(37) (34)  
가 (36) (38) (27) (28) (28b)  
(34) (35) (40) (39)가 (39) (41)  
44) (34) (43) (34) (36) (33)가 (44) (45)  
(34) (36) 가  
가 (46) (37) (43) (47)  
) 가 가 'K' ( 4  
(jaw) , 가 (50) (1) (49) / 가 (48)  
(1) (51) (counter jaw)(49A)  
, 6 4 A-A ( 6 ( 8)  
(A, B, C) ) (33) (2)

(5 10) 4 , 5 (4 6)

6 (2) (60) (2a) 'K'  
(66) (62) 가 (65) (64) (60) (63) )  
(65) (lead) (61)가 (61)

가 (8) 'K'  
65A (65) , 'X' 가 ,

가 4 5 , 가 (17) 'Y' , 가  
( 6 8 'M' ) (A, B, C) , 가 'K'  
(48) (49A) , (M) 가 (65)(6

가 (30)  
0) , (39)( ), (41), (39) 가 (29) , (4  
A, B, C , (27)가 ( 4 5 (39) X) (34), (M) ( )  
a , A, B, C(pos. 1) A, B, C(pos. 2) . 8  
'R' ( 8a ) 가 (2 8) (5 10) (2 8)  
( ) ( ) P A, B, C(pos. 2) 'R'  
( 'K' ) , 'X' , 'R'  
(A, B, C(pos. 3) .

( ) (A)가 (roughing) , (B) (finishing) (C)  
(polishing) (A) 가 ( 4 )가 (17)  
(20)가 (A) (17) (Y) 90. ( 8b)  
(A, B, C) . (40) (46) (B)( ) 'K'  
(40) 가 (20)가  
90. 가 가 (C)가  
, (K) 가 ,  
, 가 90. 가 .

), (48) , (49A) (A) ' ' 가 ( )  
1 3 가 , ' ' ,

3 가  
(K) (102) (100)(101) . 1 (101)

가 H-H .

(104)가 (103) , ( 4 )

(104) (K) ( ) (105)  
(105) (reversing) (idle tensioning) (106)

가 (109) (108) (107) 2 ( )  
 110) (104) (104) 가 (104)( 'Q' )  
 (104) , 가 (110) (103) (120) 1  
 (113) (114) 가 (111) (112)  
 (103) (electric positioning) (115)  
 (Q)( 4 ) (100) (K) 가 (101) (Q)  
 (K)가  
 가  
 가  
 4 (29)

(57)

1. (33) (A, B, C) (K) , (Y)  
 (33) 가 (X, R) 가 2 가 (13) (Y)  
 1 (34)
2. 1 (34) (Y) 가
3. 1 2 , (13) (4, 10) (2, 8)
4. 3 , (2, 8) 1 (2) (machine bed)(1) 가 가 (3)  
 , (2, 8) 2 (8) (2, 8) 1 (2) 가 가 (8)
5. 1 4 , (Y) 2 (13) 가 (17) , (17)  
 1 (34)가 가 (27) 가 (27)  
 가 , (27) 1 (34) 가 (40)  
 , (27) (29) (17)

1 **6.**

5

,

1

(34)

(33)

(46)

**7.**

1

6

,

(17)

(17) 90.

(19

20, 21, 22, 23)

가

**8.**

1

7

,

(A, B, C)가

**9.**

1

8

,

(K)

(48, 49A, 50)

**10.**

1

9

,

(K)

가

(65, 65A)

, 1

2

(2, 8)

**11.**

1

10

,

(K)

(Q)

1

( 1, 2, 3)

, 2

**12.**

11

,

(Q)

가

**13.**

11

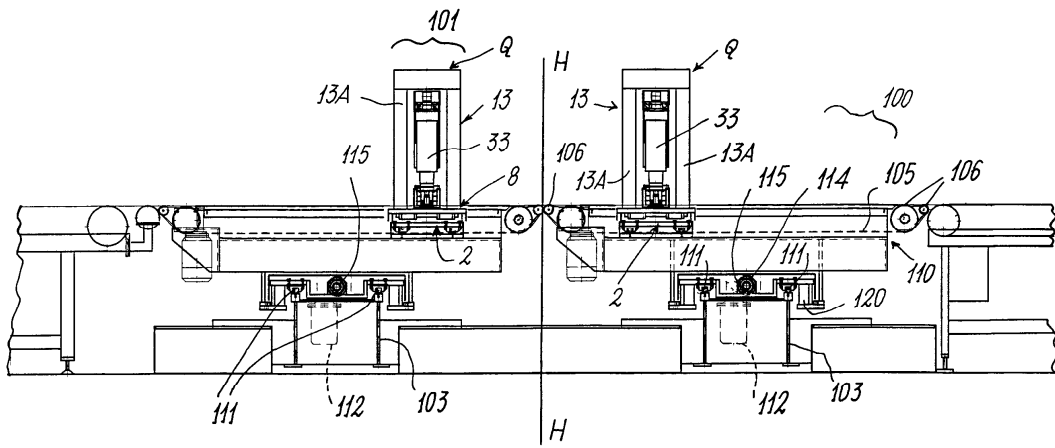
12

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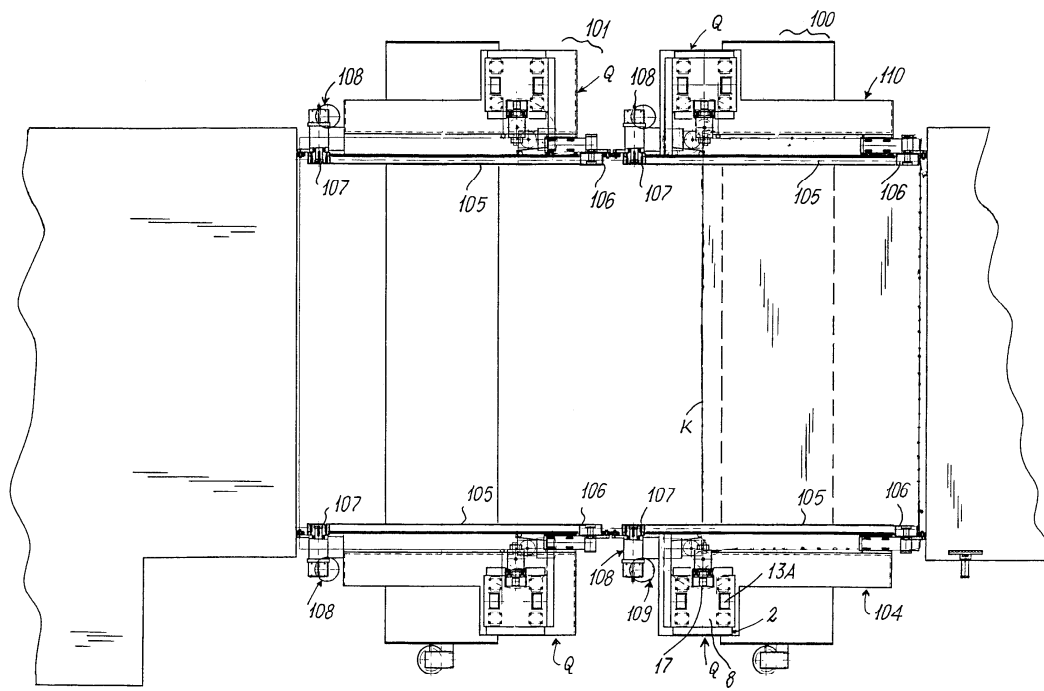
(K)

(105)

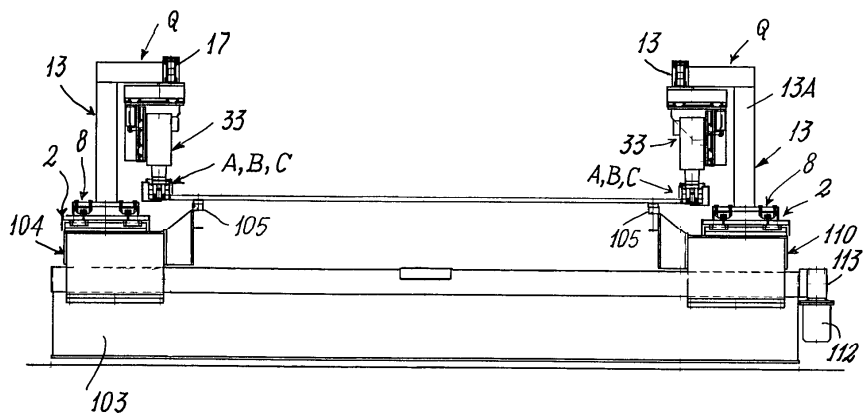
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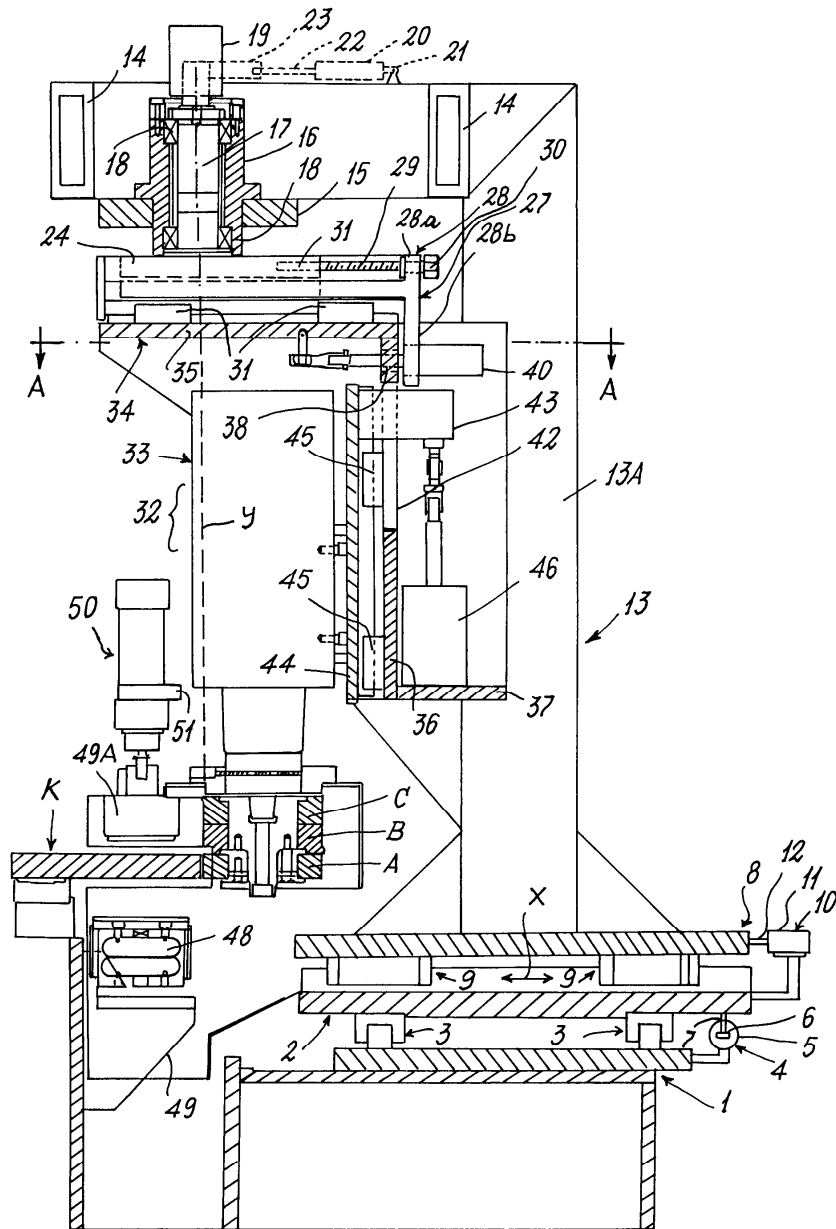
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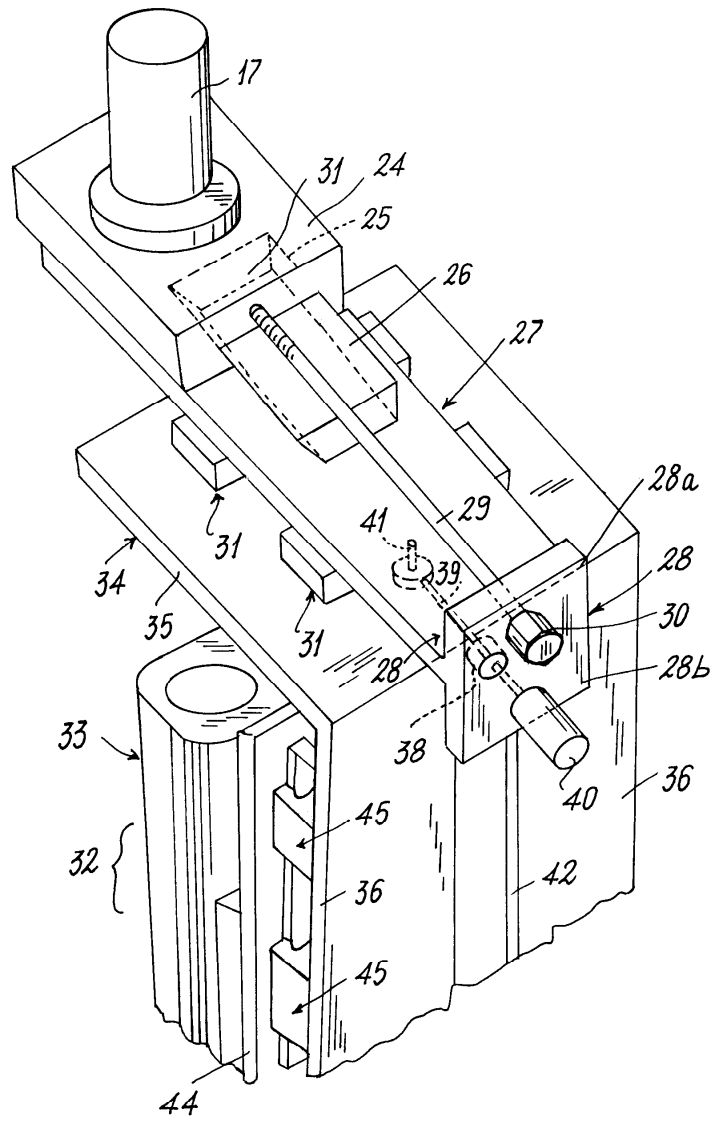


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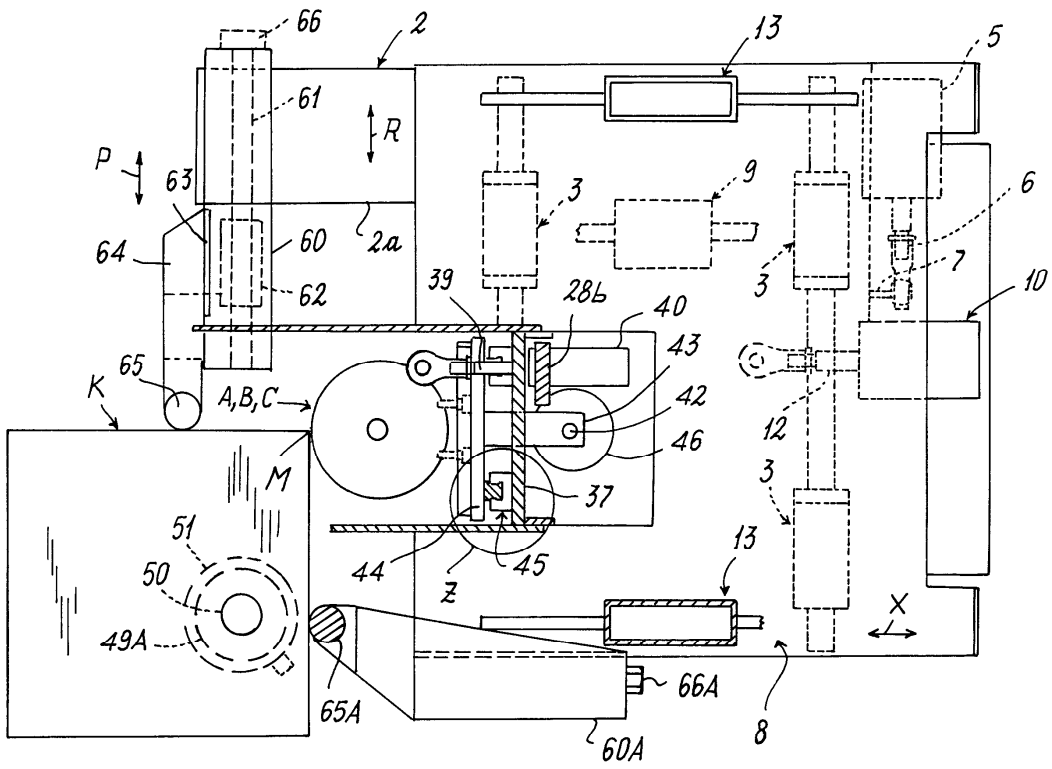




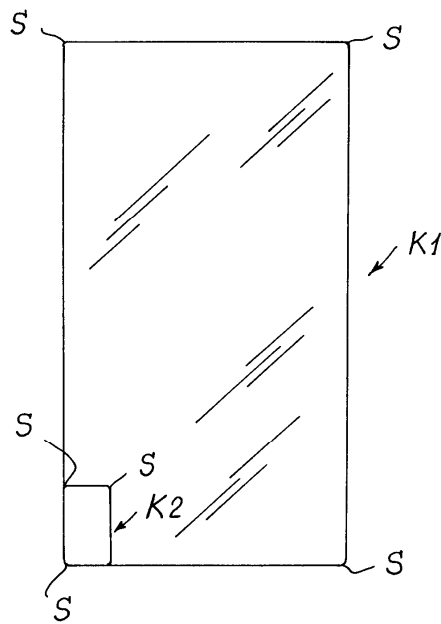
5



6



7



8a

