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(KR)  
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(51) 。 Int. Cl. <sup>7</sup>  
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(11)  
(43)

2002 - 0041297  
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(21) 10 - 2001 - 0073689  
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9784

(71) 가 가  
2 - 4 - 8

(72) 가 3 - 10 - 7 - 102  
3 - 10 - 33 - 105

(74)  
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(54)

2 (3, 4)가 (2) (7) 2 (8, 9)  
, (2) (5) ,  
(8, 9) 2 (8, 9)가,  
(14, 15) , (3, 4) (23, 27)가 , (2)  
, (24, 28)가 (2)

, , , ,

1

2 1

3 1

4 1

5 1

6 2-2

7 2

8

9 8 2

10

11 10

12 10

13 11 13-13

14 10

15

16

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1 : 2 :

3, 4 : 5 :

6 : 7 :

8, 9 : 14, 15 :

18 : 21, 25 :

24, 28 : 30 :

31 : 33, 34 :

37 : 38 : 가

39 : 41, 42 :

43, 44 : 50 :

, ( ) ,  
 , ( ) ,  
 , 가 , 10 - 172649  
 2000 - 252005 , (沿面) ,  
 , , 2 가  
 ( ) 가 , 가 ,  
 , 2 가 ( ) ,  
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 2 , 가,  
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 2 , , 가  
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가 .

2

2

2

2

가 .

,2

2

가 가

가

가

, (1) , 1 7 , (1) , (2) ,

(2) 2 (3, 4) .

(2) , PA6T( ) , LCP( ) , PPS ,

2 6 (5) , (6) (5)

(7) 2 (8, 9)가 ,

(7) (30)

(10)가 (8, 9) (30)가 (11, 11)

가 (6) (2) (13) (14, 15) (16)가 (12)가

, (12) 1 4 (2) (13) (14, 15) (16)가

(12) (14) (16) (3) (2) (17)가

(3, 4) , 가 , 7

. 가 (3) , (21) 가 (22) , (22)

가 (22) 가 , (23) ,

(23) (24) (4) ,  
(25) (26) , (26) 가 (26)  
가 (27) , (27)  
(28) .

(3) , 가 , (21) (2) (6) , (5)  
(8) . , (2) (8) (22)가 (6)  
(2) (6) (23)가 (2) (14) (1)  
7) (18) , (24)가 (18) .  
(4) , (25)가 (2) (6) , (5)  
(2) (9) , (26)가 (6)  
(12) , (12) (27)가 (2)  
(18) , (28)가 (18) .

(3, 4)가 (2) (3) (24)  
(28)가 (2) , (24, 28) (2)  
, ( 5 ) . , 29 , (2)  
(14, 15) .

8 9 , 2 (3, 4) , (4) (9)  
, (3) (8) , (3)  
, (22) (23) , (24) , (24)가  
(2) (18) , (4) , (26)  
(18) , (28) , (28)가 (2)  
, (24, 28) ,

(1) (3)  
0) ( 14 ) . 10 13 , (30) (31)  
, (31) , (1) (2) 가 가 , PA66(  
, PBT , (2) (7) (32)  
, (2) (8, 9) (33, 34)가 (33, 34)가  
(35, 35)가 , (33, 34) (10)  
11, 11) (36, 36)가 (31) (2) ( )  
(37)가 . (37) , (30) (1)  
(31) , (37) (30) 가 (38)가  
( ) (37) (30) 2  
(31) (39)가 . (39) ( )



1.

2 가 2 , , , 가 , 가 2 가 , , .

2.

1 , 2 , 가 .

3.

1 2 , 가, , , 가, 가 , , 가, , , 가, , .

4.

1 2 , 가, , , 가, 가 , , 가 , , .

5.

1 4 , , 2 , 2 , 2 ,

2

가

6.

5

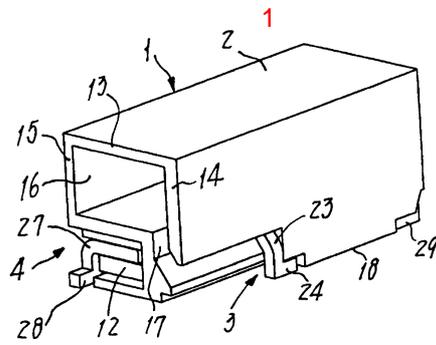
가 가

7.

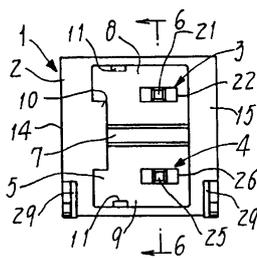
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6

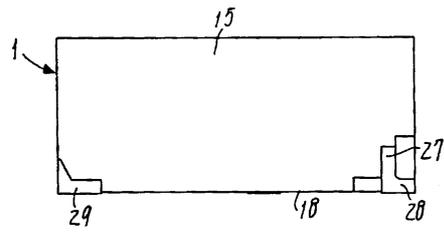
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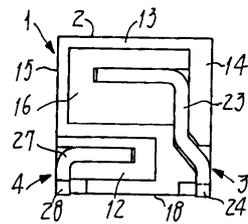
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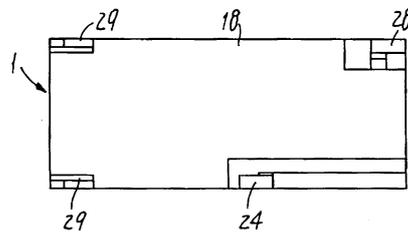
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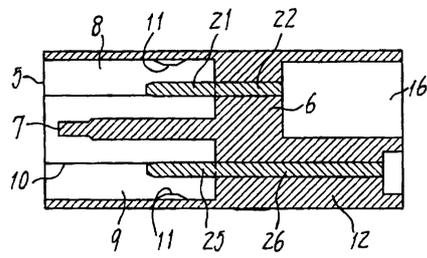
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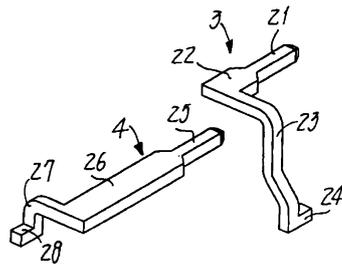
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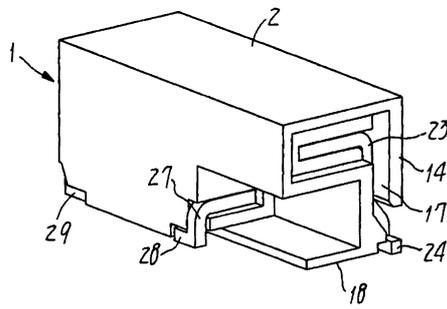
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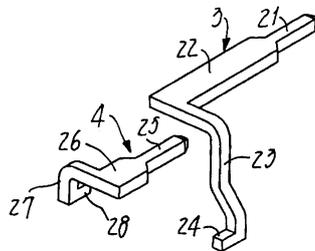
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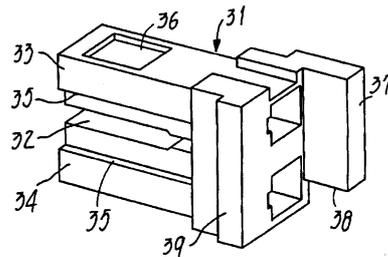
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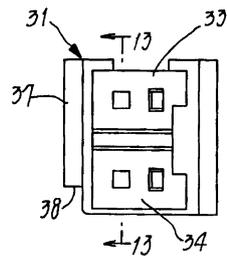
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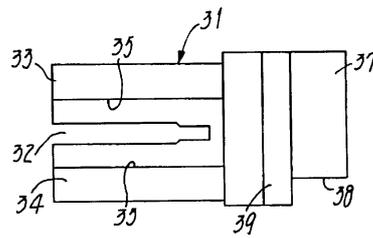
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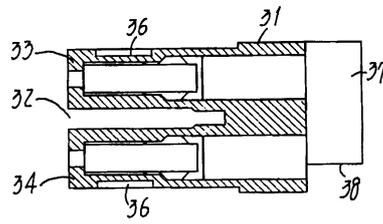
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12



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14

