





가 , 가 가 가

가 가 가

가

1 9

[ ]

4가 (400) (100), (200) (300) (500)

4가 (100.200.300,400) (600) 가

1a 2 가 가 (100) 1b (10) 1b

(200) (300) (20a)

(20b) 5 (610)

(200,300) (20) (60)

(60) (70)

가 (40,50)

1 가

(A) (80) 1a

(B)

(200) 5 (100) (20,30)

(30) 가

(30) 가 2

(300) 5 (100) 3

(200) (30)

(30)

가 4 (40,50)

(400) (100,200,300) (100,200,300,400)

(beam)

180kg/cm<sup>2</sup>

가 가 )

4

(90)

가

PS

가 (100,200,300,400)

(91)가 가

가

4 가 4 가

[ ]

(100,200,300,400)

가 (400)

가 1200(W)×1500(H)

) 가 1.5 M

(100,200,300)

5

가

3가

(6

10)

(610)

(620)

(600)

)가

(B)

가 (610)

(620)

가

가

(600)

가

가

가

(A)

(91)

(92)

(93)

(94)

가

가

(95)

7

가 , L

(96)

가 , 8

(99)

L

(97)

, L

(99)

[

, L

(98)

]

(100,200,300,400)

(600)

가

가

가

H

. H

, 9a , 9c

가 H H

가

( )

(100,200,300,400)

가

가

(610)

(600)

L

가 가

가 7 L 7

L

7

(91)가

가

(500)

가 6 가 6

1 가 가

(100)

(100) , (200)

5

).

(

가

(100,300)

(610)가 )가

(610)

(630) (640,beam)

, 9 (650)

, , L L  
 , (600) (620) (610)  
 (660) 가 9c , , ,

가 , 가 가  
 , 가 , 가 가 가

(57)

1.

가 , ; ;  
 , ; , ;  
 ; ; ;

2.

3.

1 , 가

4.

1 , 가 ,

5.

; , ;  
 , ; ,

6.

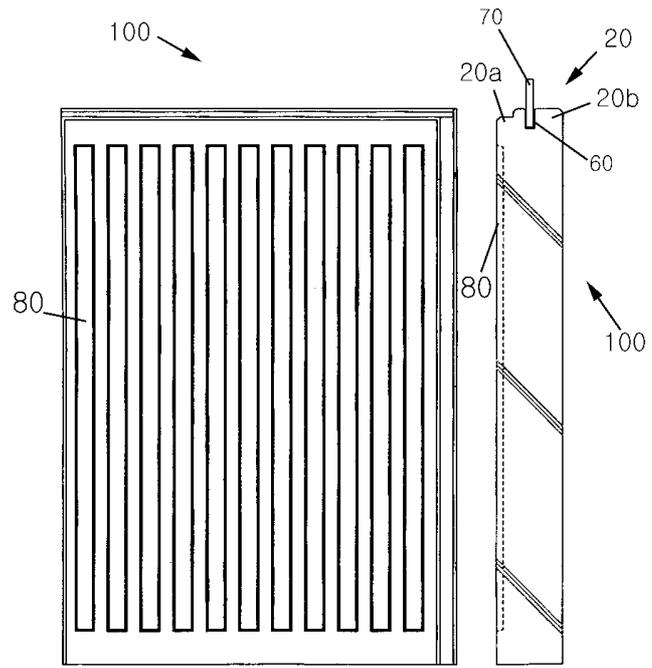
; , ;  
 , ; ,

7.

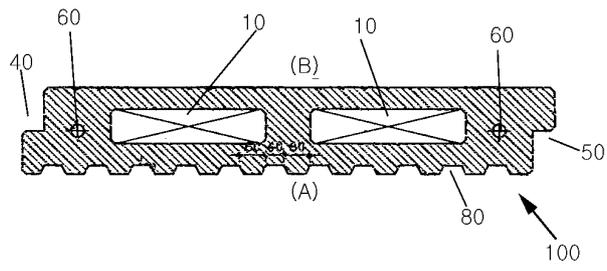
6 , 가 ,  
 , ; ,



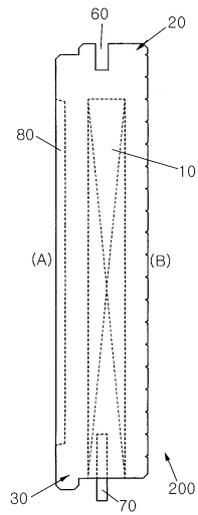
1a



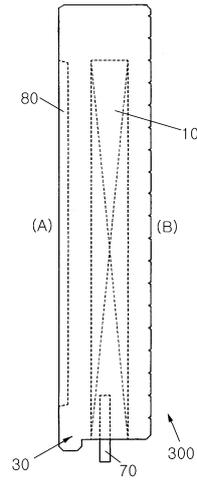
1b



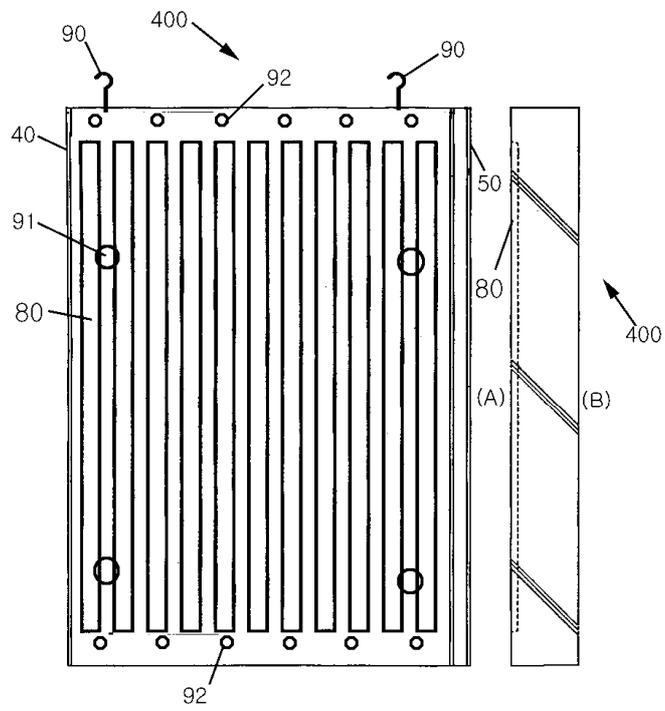
2



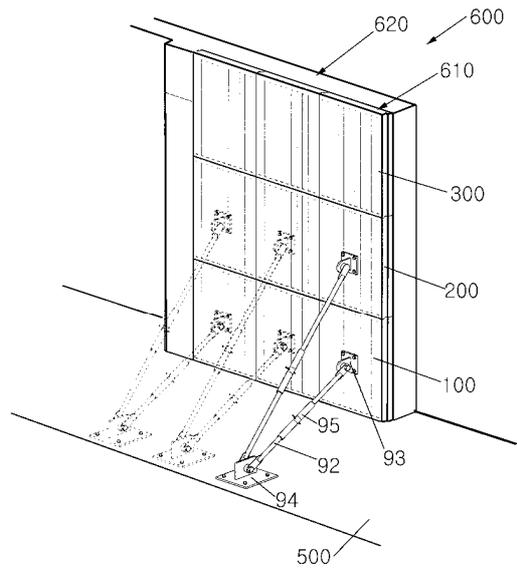
3



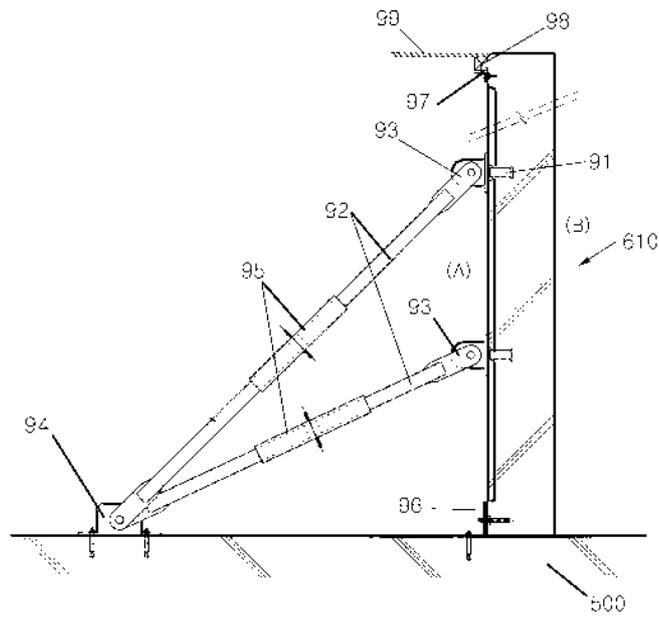
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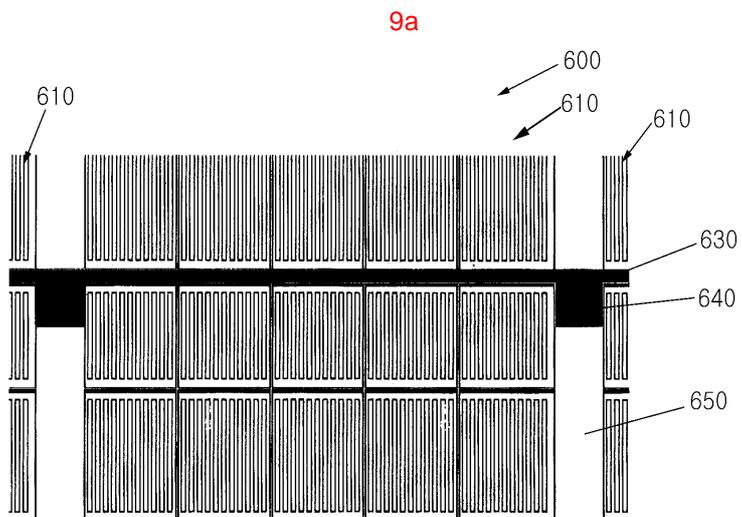
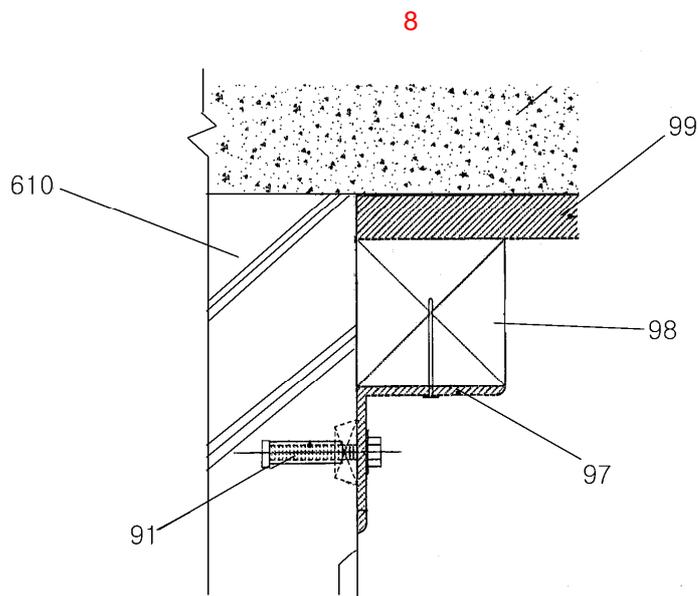
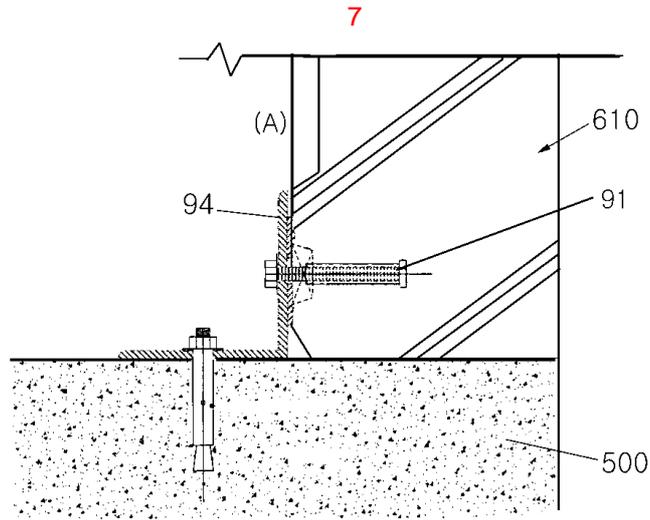


5

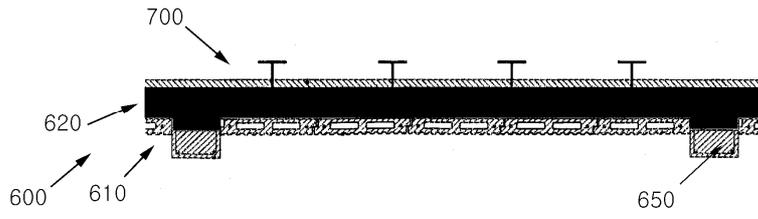


6





9b



9c

