

(19)
(12)

(KR)
(A)

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(43)

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2003 02 26

(21) 10 - 2003 - 0007228
(22) 2003 02 05

(71) 110 406
725 110 - 205 24/8
3 786 6 601 309
209 - 608

(72) 95070 가, 가 #118 14333
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(74)

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(54)

I -

9a
9b 7 A , 9c
I - .

< >

2 : I - 2a :

100 : 102 :

104 : 106 :

110 : 가 120 : 가

122 : 130 :

140 : 150 :

160 : 162 :

164 : 170 :

180 :

, I -

,

.

, I - () 10%~20% 가 (Prestress)

가

I - , , I -

, I - 가 I - 가

, 1a 3 , , I-

, 1a 1d , I- (2) 가
(4) , (4) (6)
, (6) (8) ,
(9) (10) (12)

(2) (14) , 1d , (Camber) I- (2) 2 1
, (10) I- (2) (16) (12)
, I- (2) , (12) I-

, 2 , (18) 가 , (20) (22) , I-
(2) () .

I- (2) , 3 , , I- (2)
(24) , (26) ,
(24) .

, (12) , I- (2) (14) (16) (10)
, (12) I- (2) (12) (12)
, (12)가 (16) , I- (2) (12) , (14)
, I- (2) I- (2) 가 (10)
, I- (2) I- (2) , I- (2)

, I- (2) (22) (20) (18)
, I- (2) 가
, , I- (2)가 , ,
, 가 가 , ,

, 가 가 , 가
, 가 ,
가 .

, 4 , I- (2)
(26) , (24)

가 가 , 1 1 가 (120) (150)
 가 가 , 1 (122) , (150)
 (150) 가 (120) , 1 (130)
 1 .

7 1,2 , 1- (2) , (2a)

7 , 1- (2) (2a) (160)

(162) , (160) (162)가 ,
 (162) (164) , (160) 1- (2) (164)
 (160) , (160)
 (160) 가

160) (160) , (160) (, ()
 1- (2) (2a) (106)

, (150) , (106) , 1 (130) 2 가
 (106)

, 1- (2) , ,
 1- (2) (100) ,

8a 8b , ,

8a 8b , (106)
 (170) , (170) (180)
 (170) (180)

, (180) , 8b , (182) 가
 , (182) (184) (180)

(170) (180)

(102) (104) (102) (104) 가 1- (2) ,
 (100);
 (100) 1- (2) 2 1 (2a) 가 (11
 0); 1- (2) 1- (2)
 1- (2) 가 (120); 1- (2)
 1- (2) (130); , 1- (2) 가
 1- (2) (2a) (106) (160)
 가 , 1- (2) , ,
 1- (2) (100) ,
 .

5.

(102) (104) (102) (104) 가 1- (2) ,
 (100);
 (100) 1- (2) 2 1 (2a) 가 (11
 0); 1- (2) 1- (2)
 1- (2) 가 (150); 1- (2)
 1- (2) (2a) (106) (160)
 가 , 1- (2) , ,
 1- (2) (100) ,
 .

6.

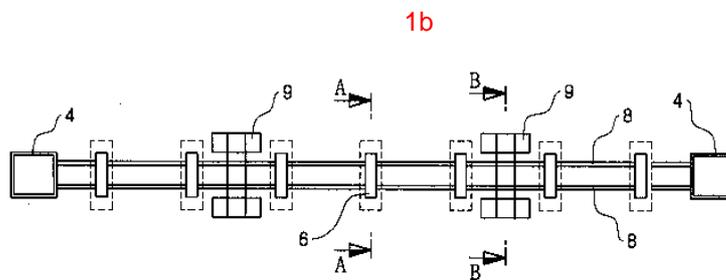
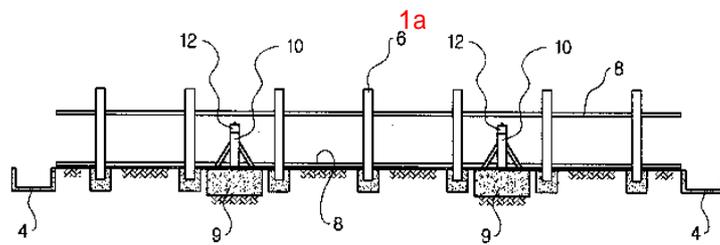
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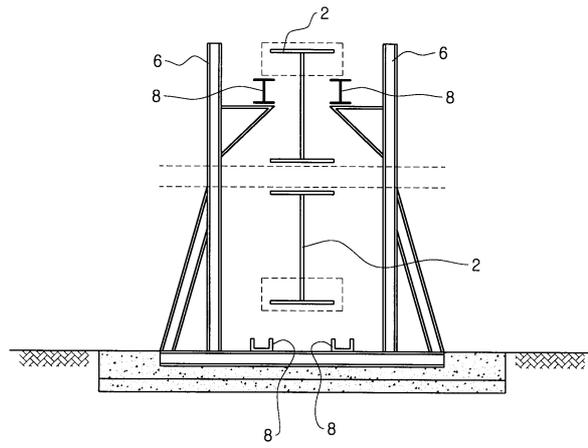
4 5 ,
 (160) (162)가 (162)
 (164)

8.

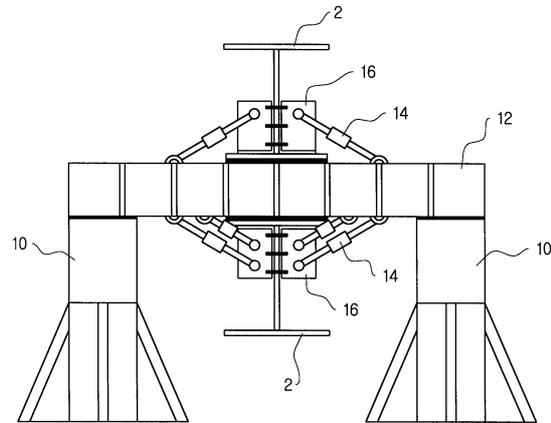
4 5 ,
 (100) 1 - (2) 가
 1 - (2) (140)가



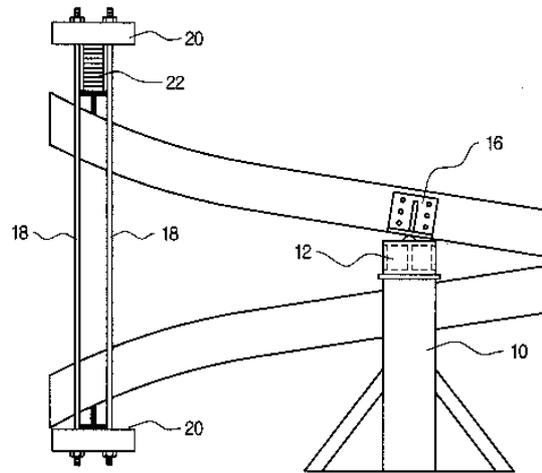
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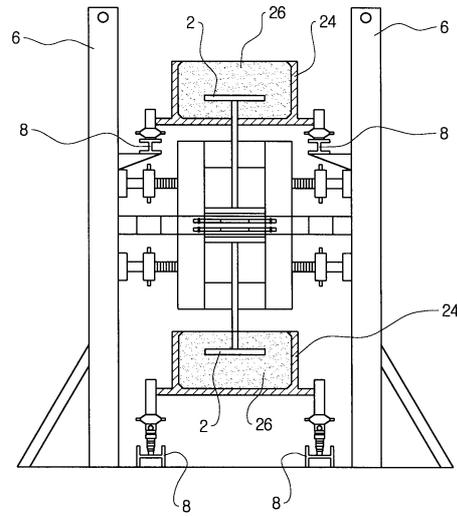
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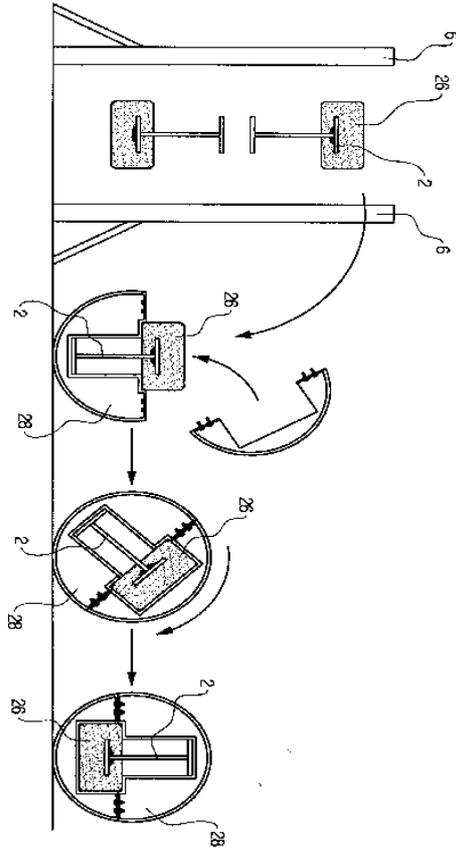
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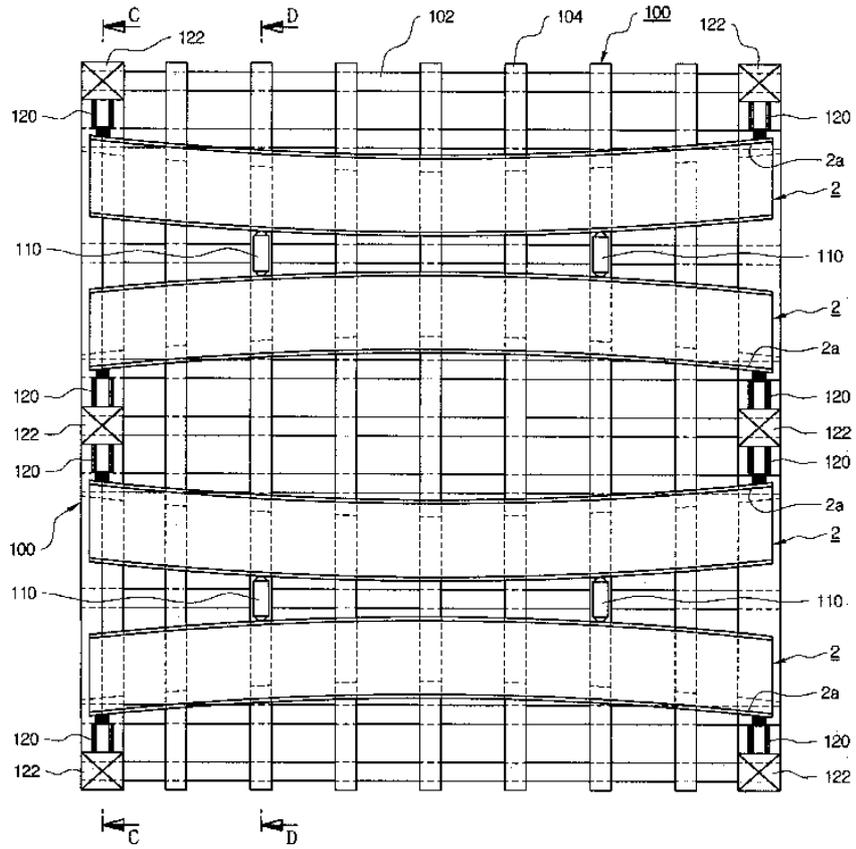
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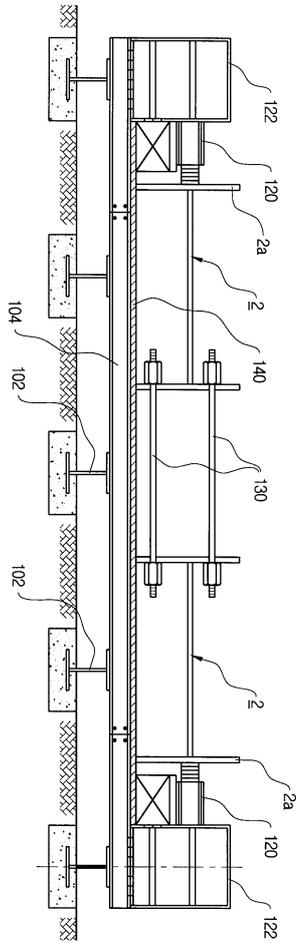
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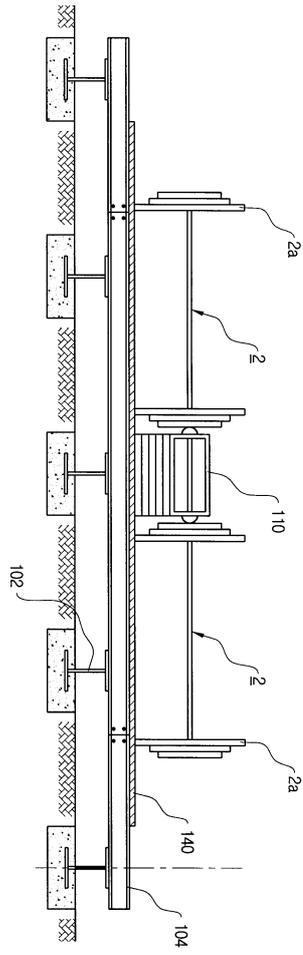
5a



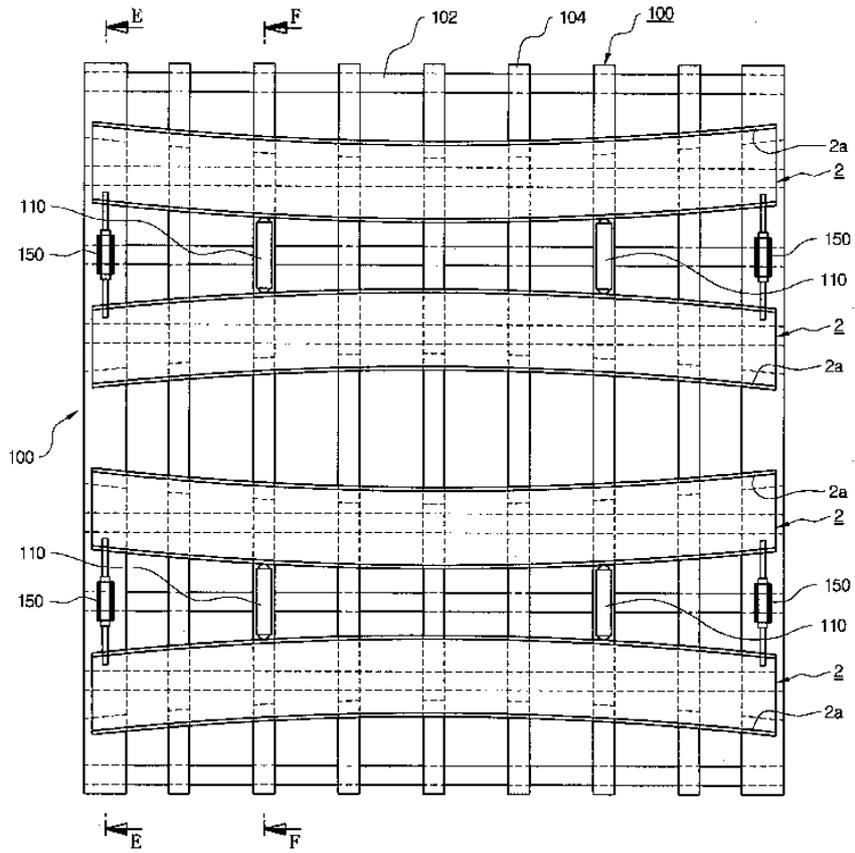
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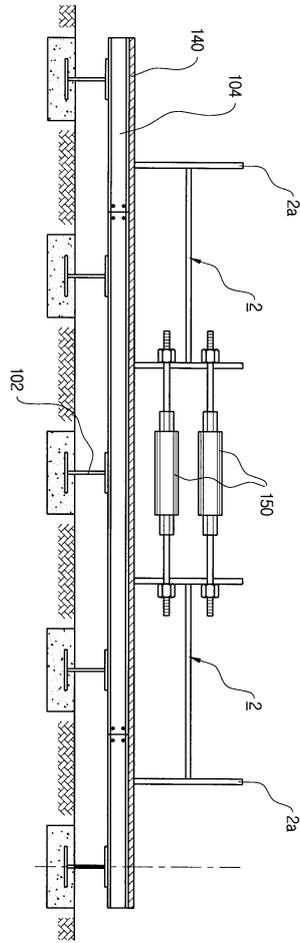
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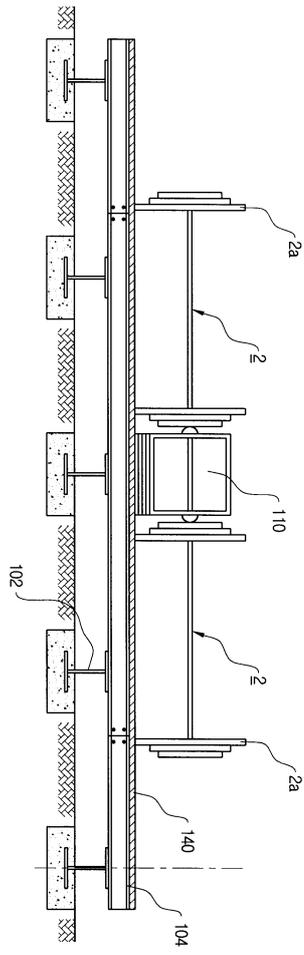
6a



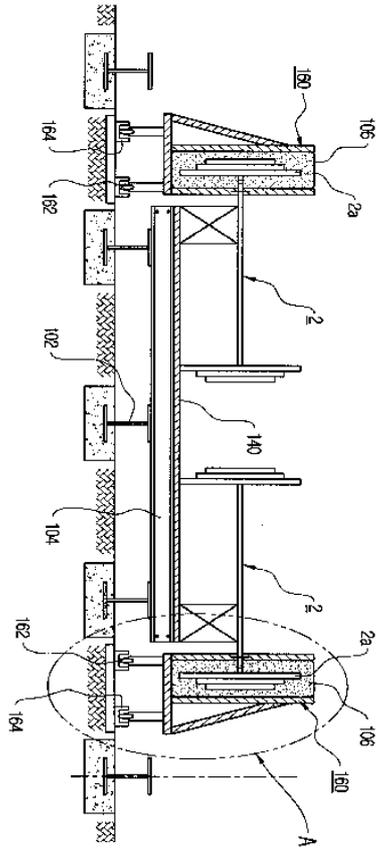
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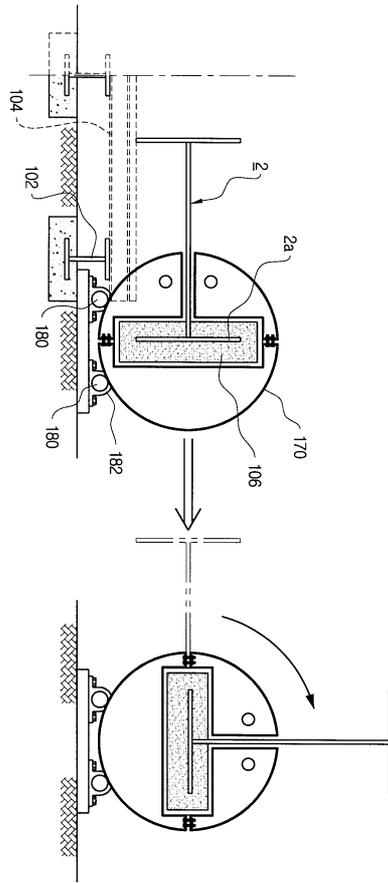
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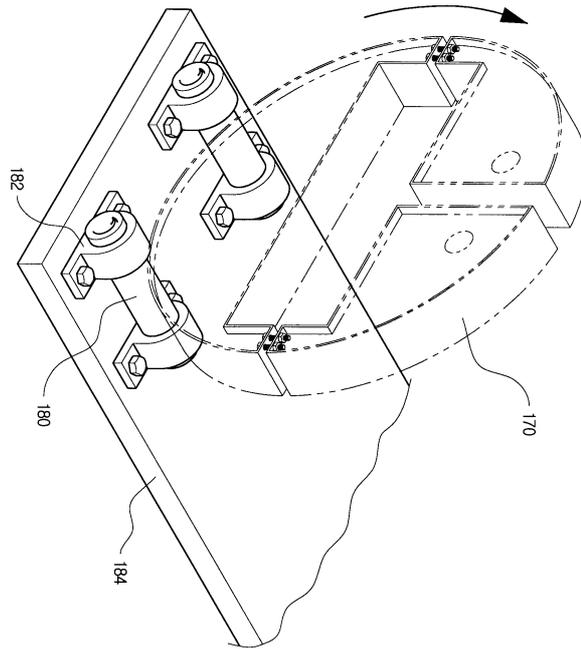
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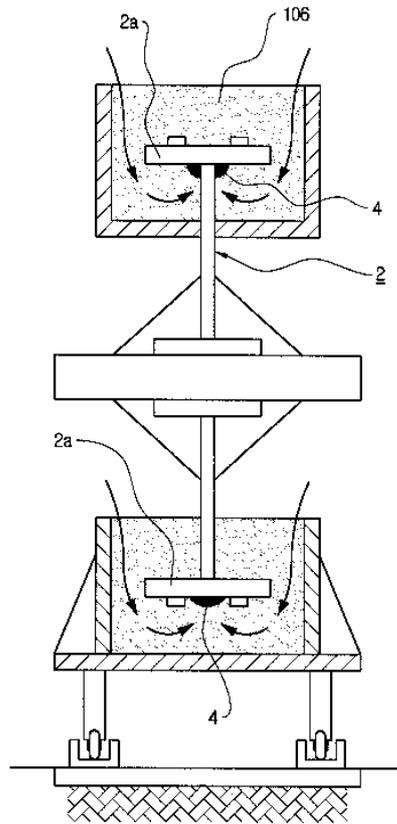
8a



8b



9a



9b

