

(19) (KR)
(12) (A)

(51) 。 Int. Cl.7
E03F 7/00

(11)
(43)

10-2004-0010353
2004 01 31

(21) 10-2003-0050585
(22) 2003 07 23

(30) JP-P-2002-00214780 2002 07 24 (JP)

(71) 가 가 가 31-27

가 175-3

(72) 가 31-27가 가

175-3 가

(74)

:

(54)

15) , (15) (20) , (20) (S) (grout material;35) ()
가 (11) (20) (15) (20) (S) (20) ()
(11) , (11) (15) (20) ()
, (35) (15) (15) (11)
, 가 (15) (15)

1 .
2 (1 A).

3 2 B-B .

4 2 C .

5 4 D-D .

6 2 E-E .

7 .

8 7 F-F .

9 .

10 .

11 .

12 .

13 .

14 .

15 14 H-H .

16 가 .

17 .

18 .

()

1 : 1e :

11 : 15 :

20 : 34 :

35 : 40 :

S :

()

가

가

가

(供用水)가

가

가

가

(135) (115) 18 (115) (120) (120) (S)

18 (115) (115) (120) (115) (5) (101e) (101) (120) (134)

(115) (120) (S) (135) (115)가

) (115) (115) (S) (140) (136) (141) (120) (115) (115) (S)

(115) (140) (141) (142) (141) (143) (115)가

(S) (135) (115) (115)가 18

5) (135) (S) (120) (135)가 (S) (11)

18 (140) (115) (141)가

가

()

, 1

가

2 , 1

3 , 1 2

4 가 , 1 , 2 3

5 , 1 , 3 가

6 , 1

1

2 ,

3 ,

4 , 가 ,

5 , 3

6 , 가

4 1 2 C , 2 , 5 4 D-D (1 A), 3 2 B-B , 7

8 7 F-F .

1 6 (1) , 9 10 (20) (2)

(2) (1A) , (1A) (1) , (1A)

) (1B) (1C) , (1C) (1B) , (1A)

(1E) (1D)

(1) , , ABS, () , PVC,

PVC, , ABS,

(L) 1kg 10kg, (1A) (1B) 1.0mm 10.0mm

(20)) (b) (L > b) (2

).

(1) , (1A) (2) (5

) (1C) , (2) , (20)) (1C)

() , (13) (1D) (1A) , (1C)

) , (1A) (1B) (1C) , (1D) (1

, 2 (1B) (1C) (1D)

(3) (4) (2) ,

, 6 (1D) (1C) V

(5) , (5) V (1A)

, (1) (1E) , , 2

, (6) (6) , (5) , (7)

(1B) , 4 5 , (1B) (9)

(8) . , 5 (1B)

2 (1a)가, (山形) 2 , (1b)가

, 4 (1) (1B) () (1d)가

2 (1c)가 , (1B) 2

, 1 (1) (1B) (1B)) (10)

(1 (1B)) .

, 1 6 (1)

9 17

, 9 10 , 12 , 11 14

, 15 14 H-H , 16 가

, 17

9 10 , 20 , , 21

(11) (20) , , 12 가 , 11 2

, (20) (12)가 ,

(11) (13)가 (20) (12) ,

, (11) (20) , (11) (20)

0 (2)가 , 9 (2)가 1
(15)가 (20) , , (2) (2)

13 , (2) , (22)가 (3, 4) ,
(2) (20) (2)) (2) (22) ,
(1d)가 (2) , 15 (2) (2)
(2)가 , 가 (1c)

(22) (23) , (1B) (3)
(2)가 14 (2) (2)
20) , , 2 (22) (23) (1) , (

(2)가 , (20) 2 (2) 가 , , 가
(15)가 (20) .

(20) (20) (S)(16) (15) (20) (15) (15)
(S) (S)

1) , 16 (20) (S) (1
1) (0.05MPa 0.5MPa) (11) , (1
(15) (15) (S)
, (20) (土囊) , (15)

(15)

(11) , 17 ,가 (11a) (11b)
, 16 16 가
(32) , 30 (31) (32)가 (11)
(30) (33)가 .

(33)가 (31) (30) 가 가 , (30) (30)
(30) (32) (30) 가
(11)

16 (15) (40)가 ,
(40) (15) 3
(41) (42) (15)

(15) 3 (42) 가 , (40) (15) ,

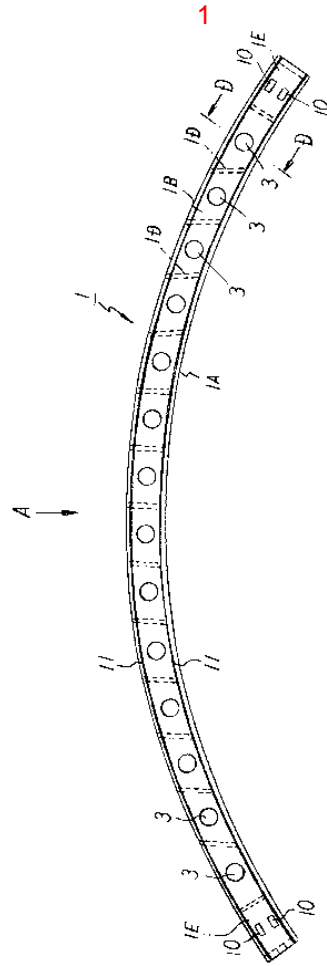
16 (15) 2 (1e) , (1e)
(34)가 (34) (S)
(35)가 (15) (20) (S)

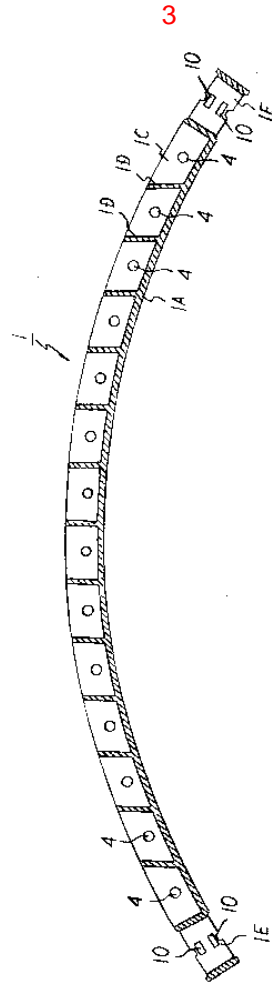
(35)

16 a (35) , 3
(35)가 , (35) (35) ,
(35) (35) , 2 b (35)
(35) (S) (35)가 , (35)

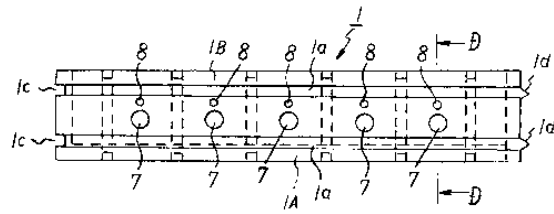
, (15) (20) (S) (35)가 (11) (15)
 (35) (20) (11) (20) (35) (15)
 , (35) 16 , 2 (15) (40)
 가 3 () (35)
 , (11) (15) (35)
 (15) (11) (15) (15) (11)
 (15)
 , (15) (20) (15) 2 (1e) (35) (35)
 (S) (15) (35)가 (S)
 (35)가 (S) (15)
 , (15) (40) (40)
 (15) (40) 3 (40) (15)
 (15) (15)
 (11) (15) (20) (S) (35)가
 (11) (11) (35)
 , () 가 가

, 1
 ,
 2
 ,
 3
 ,
 4 , 가 ,

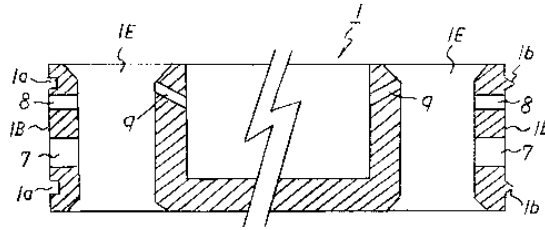




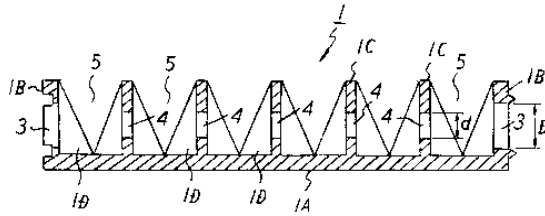
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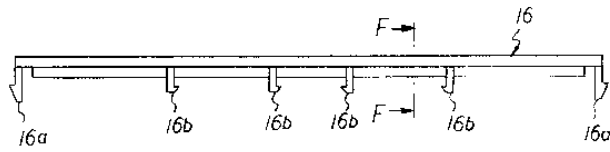
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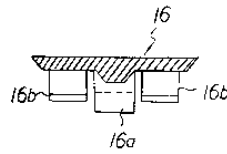
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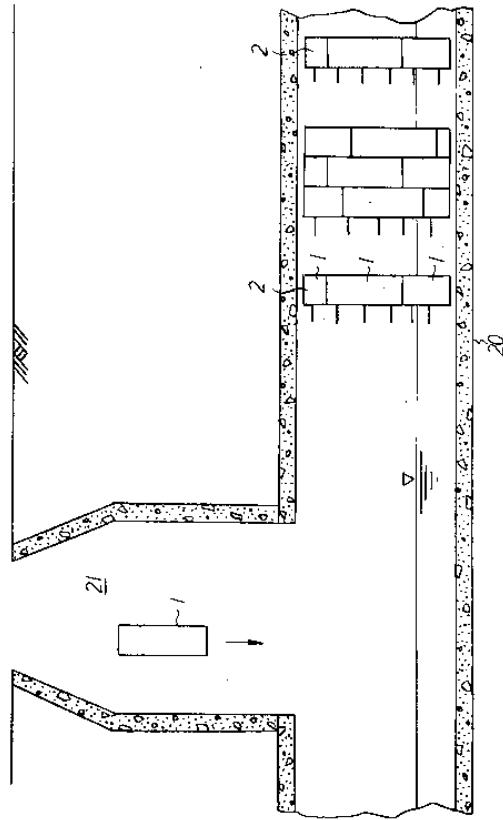
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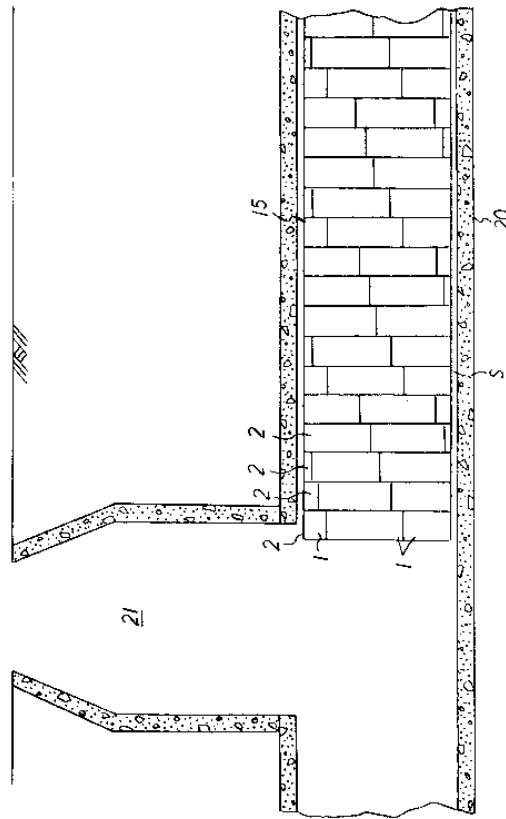
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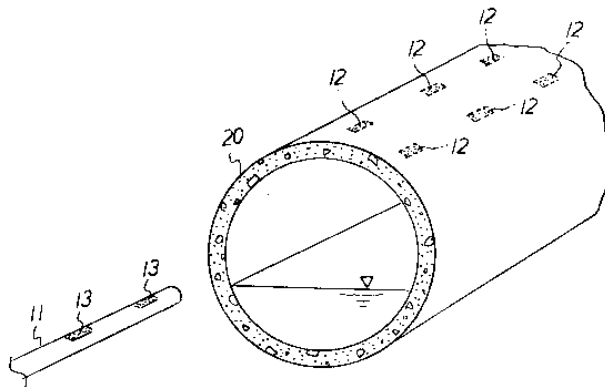
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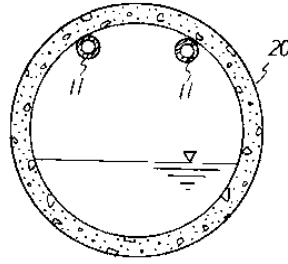
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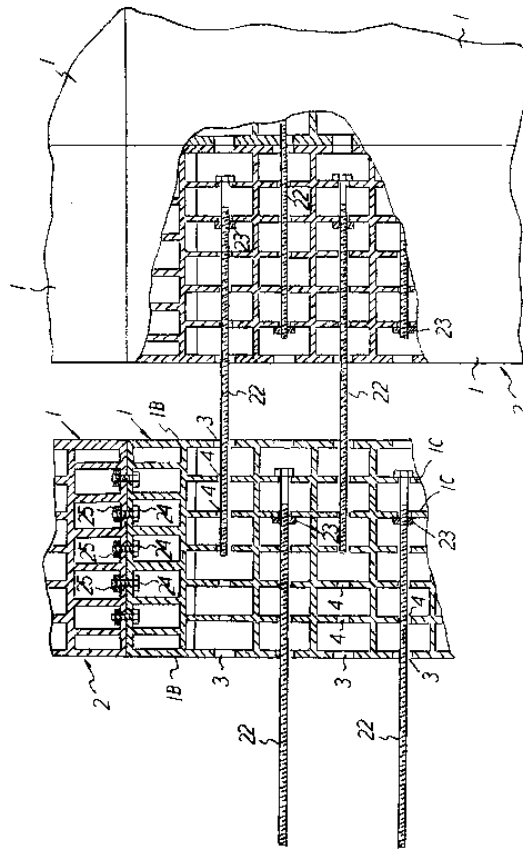
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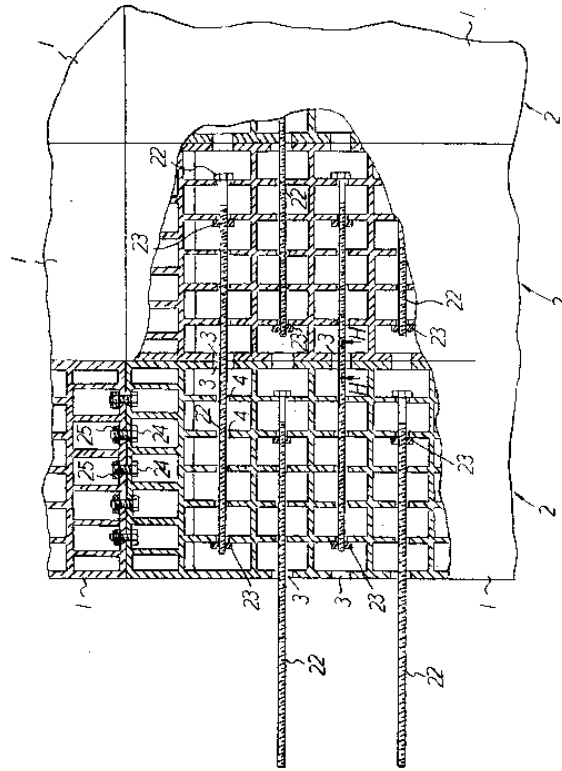


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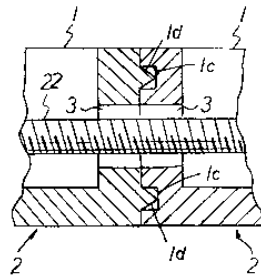


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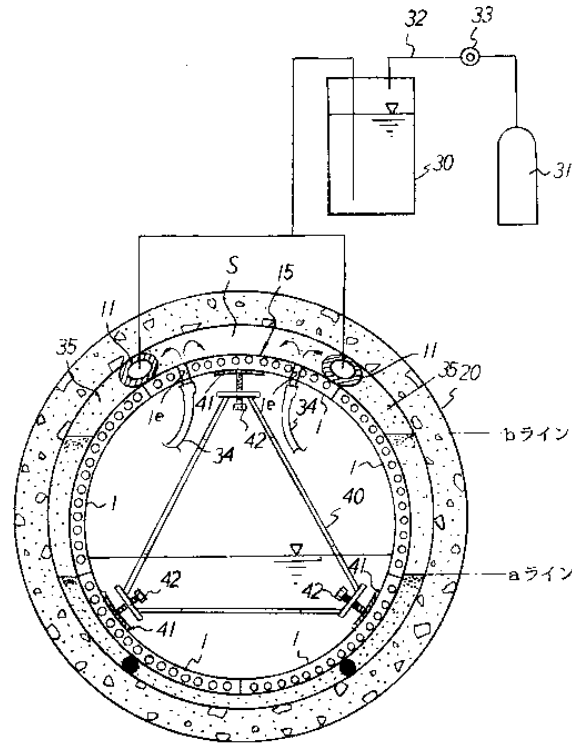




15



16



17

