

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl. <sup>7</sup>  
E02D 27/08

(11)  
(43)

2001 - 0074069  
2001 08 04

(21) 10 - 2001 - 0007368  
(22) 2001 02 02

(71) 3 1189 - 4

(72) 322 - 151

:

(54) /

(footing; ) /

/

,

/

/

,

.

1

, , , (footing), , ,

1 " / "

2 " / "

3 " / "

4

5

6

7

8

9 가

10

< >

1: ( , , )

2: ( , )

3: / ( )

4: ( shear connector : )

5: ( )

6: 7:

8: 9:

10: (hole) 11: (pile)

12: (clip) 13:

(footing; )

/

(1999)' 7.

10

(tie girder)

(帶筋)

+

가

.( Reinforced Concrete Slabs, 1999, 2nd Ed

ition, John Wiley & Sons, Robert Park/William L. Gamble, p567 )

가

(tie girder) ,

(帶筋)

가

가

가

가

가

, (異種) ( )  
가

가

, , 가

(6) , /

(8 9)

( : )

(6)

(6)

/

(8 9)

(7)

1 /

(8) /

(9) /

2 / (1,2,3) 2 a

2 b (1) (2) 가(假)

d 2 c 90° (1) (2) 2

(3) , 2 f 2 h 가 (3)

(5)가 , (3)

3 , 1 / (8,9) . 2 / ( :  
1 , (8,9) ) 1 / (6) /

가 / , (7) /

가 , (6) / (8)  
(6) (7) (2 3m) / (9) 가 ,

(7) ( )

(帶筋)

4 / 4 가 가 ( 4  
a ) 4 b 가 가 ( )

( shear connector ) (4) 가 4 c (10)

(10)

5 (3) , (가) ( )  
, ( ) (4) (anchorage)

(bending) (帶筋)

6 (3) (2) 6a (2) 6b (3)

(2)

7 / (13) . 7 a (3) 7 b (3)  
 (1,2) (12) (3) (13)  
 / (13) (12)  
 (3) (가) (3) (12) ( )  
 ( ) (13) (12) ( ) (12) ( )  
 1 2) ( ) ( ) (10) (13) .

8 . 8 a , 8 b /  
 (8) .  
 1) (6) . , /  
 가 .  
 2) / 가 .  
 ( )  
 3) (7) . , /  
 가 .  
 4) / 가 .

9 가 9 a 9 b  
 / (9) . / (2 3m)  
 1) . , /  
 가 .  
 2) / 가 .  
 ( )  
 3) . , / 가  
 4) / 가 .

10 . 10 a 10 b  
 /  
 /

, 가 / ( 1 )  
 (3) (4) / ( 1) (1) (2)

, 3 가 ,  
 / ( 1 )

(57)

1.

(1) , (2) ,  
 가 / ( ) (3) , (shear connector) (4) , (5)

2.

1 , (1) , /

3.

1 , (2)  
 /

4.

1 , (3) , /

5.

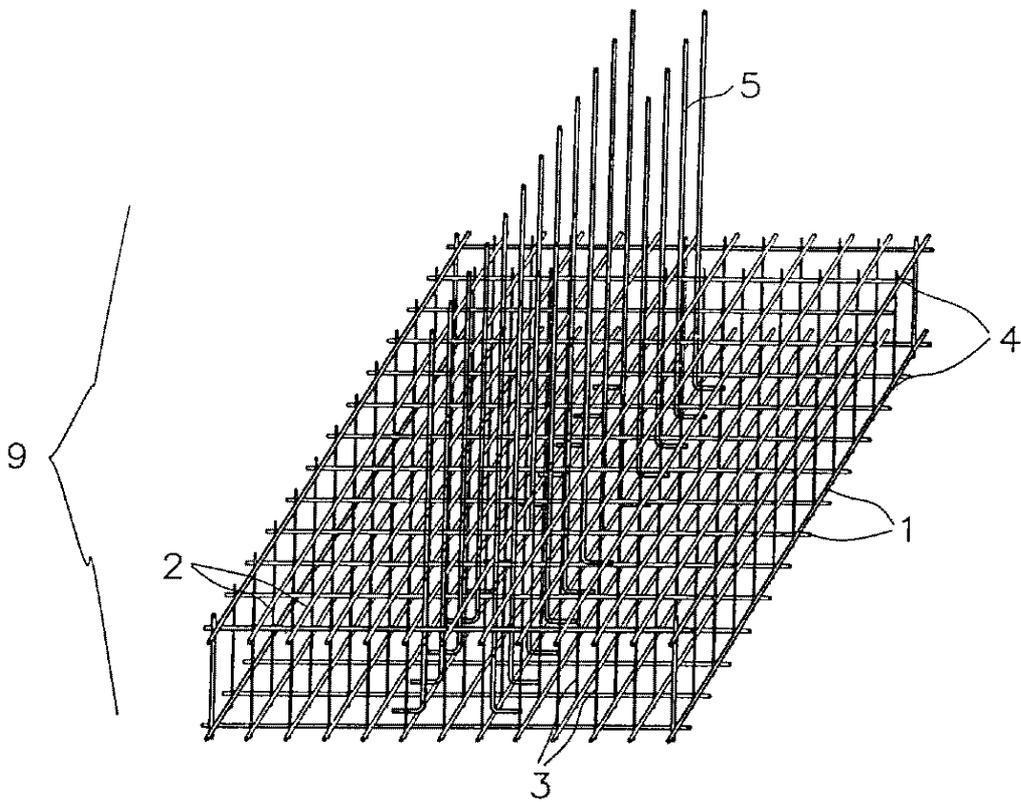
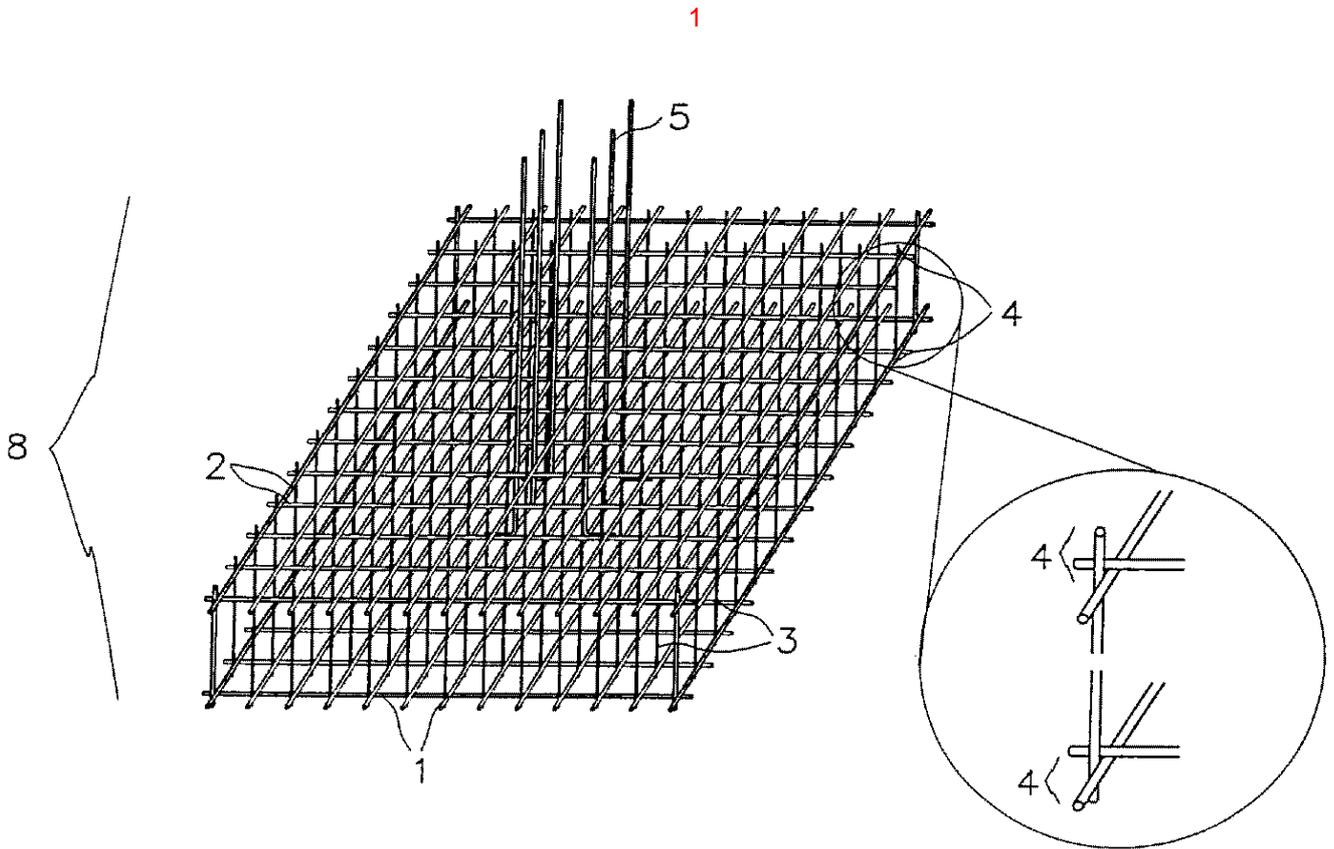
1 , (3) ( 7 )  
 a, 7b) /

6.

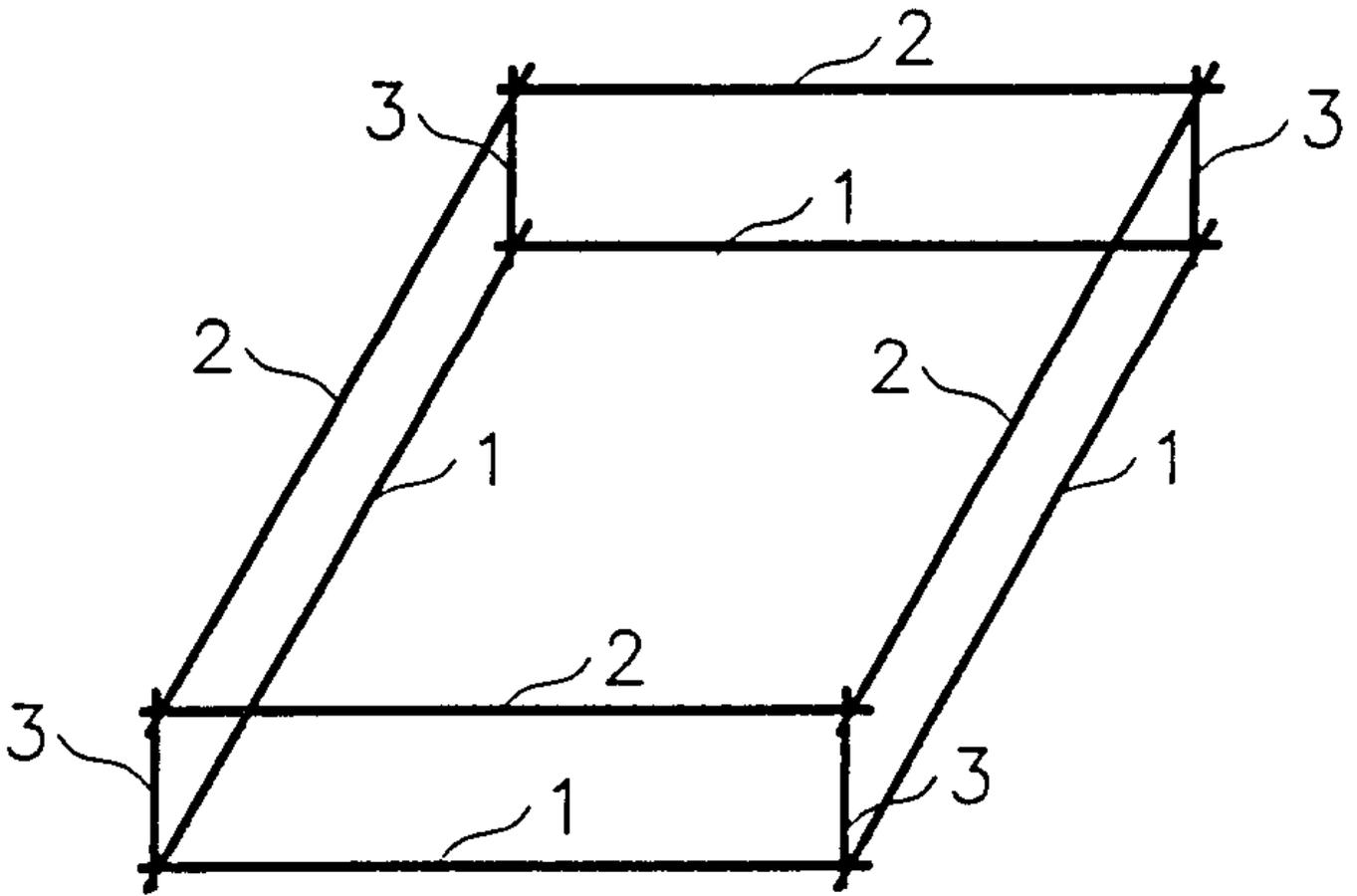
1 , (3)가 ( ) (12)  
(1,2) (13) (1,2) (3)

7.

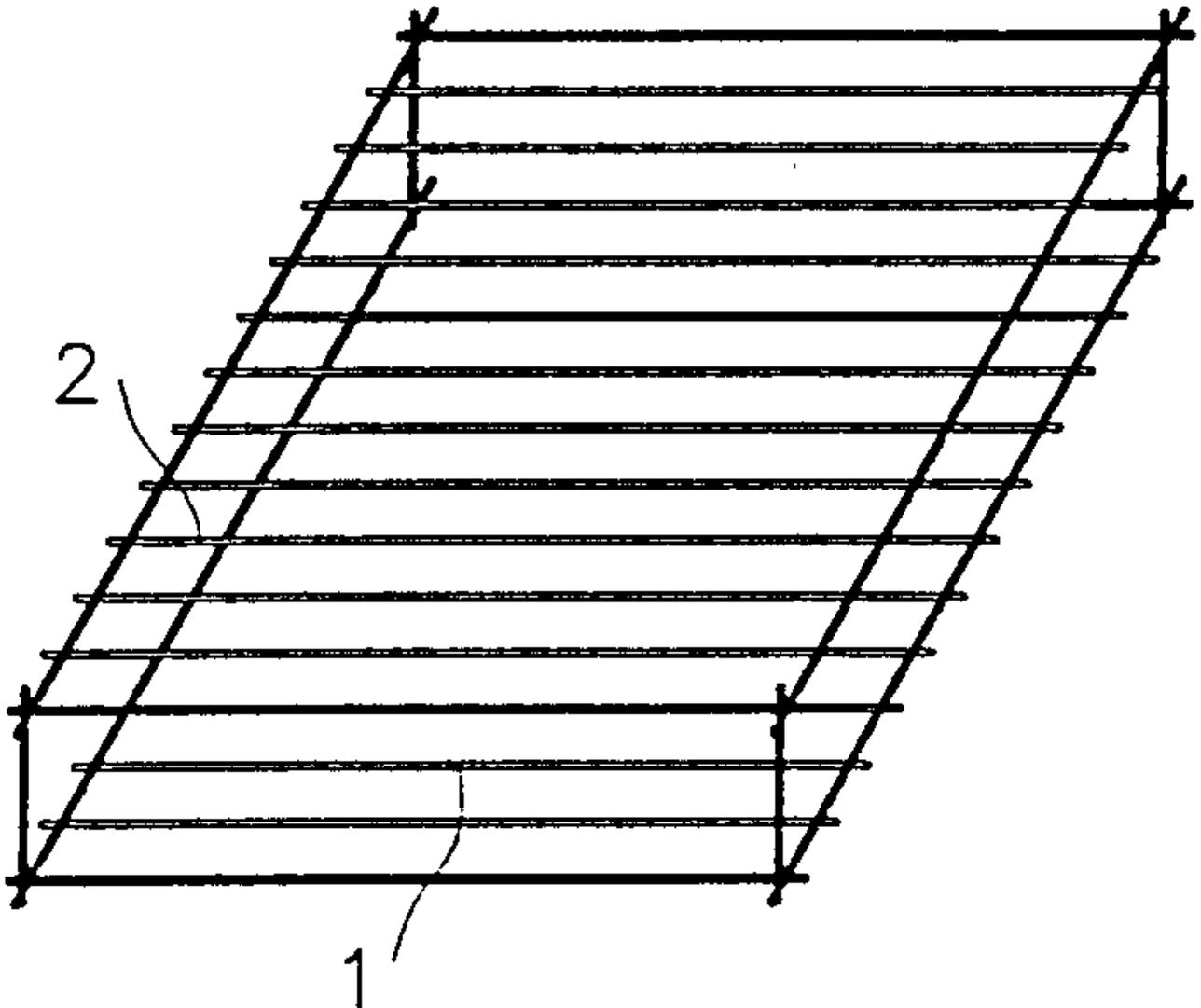
,  
(6) , (6) 1 / ( 1)  
, (7) , /



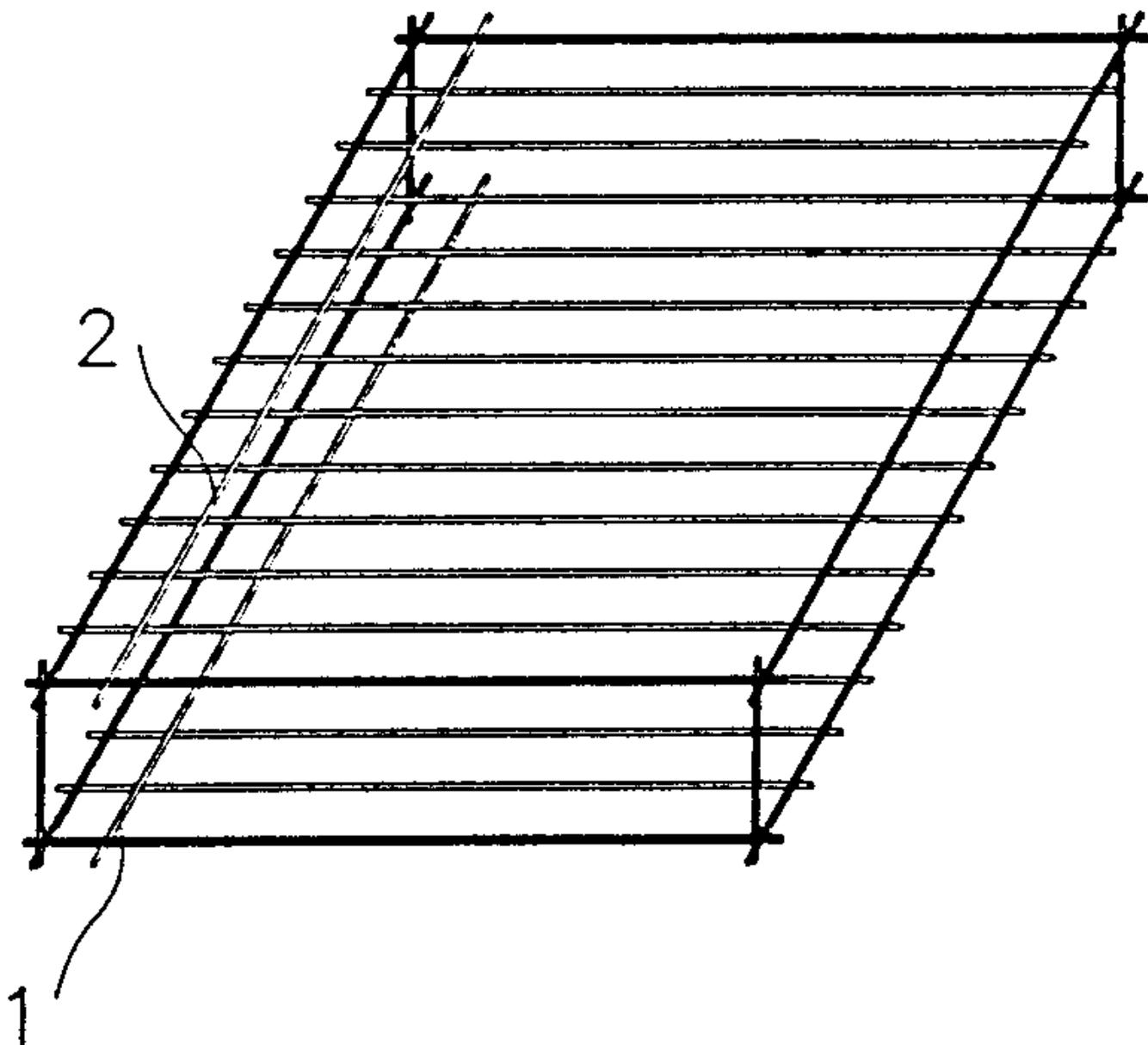
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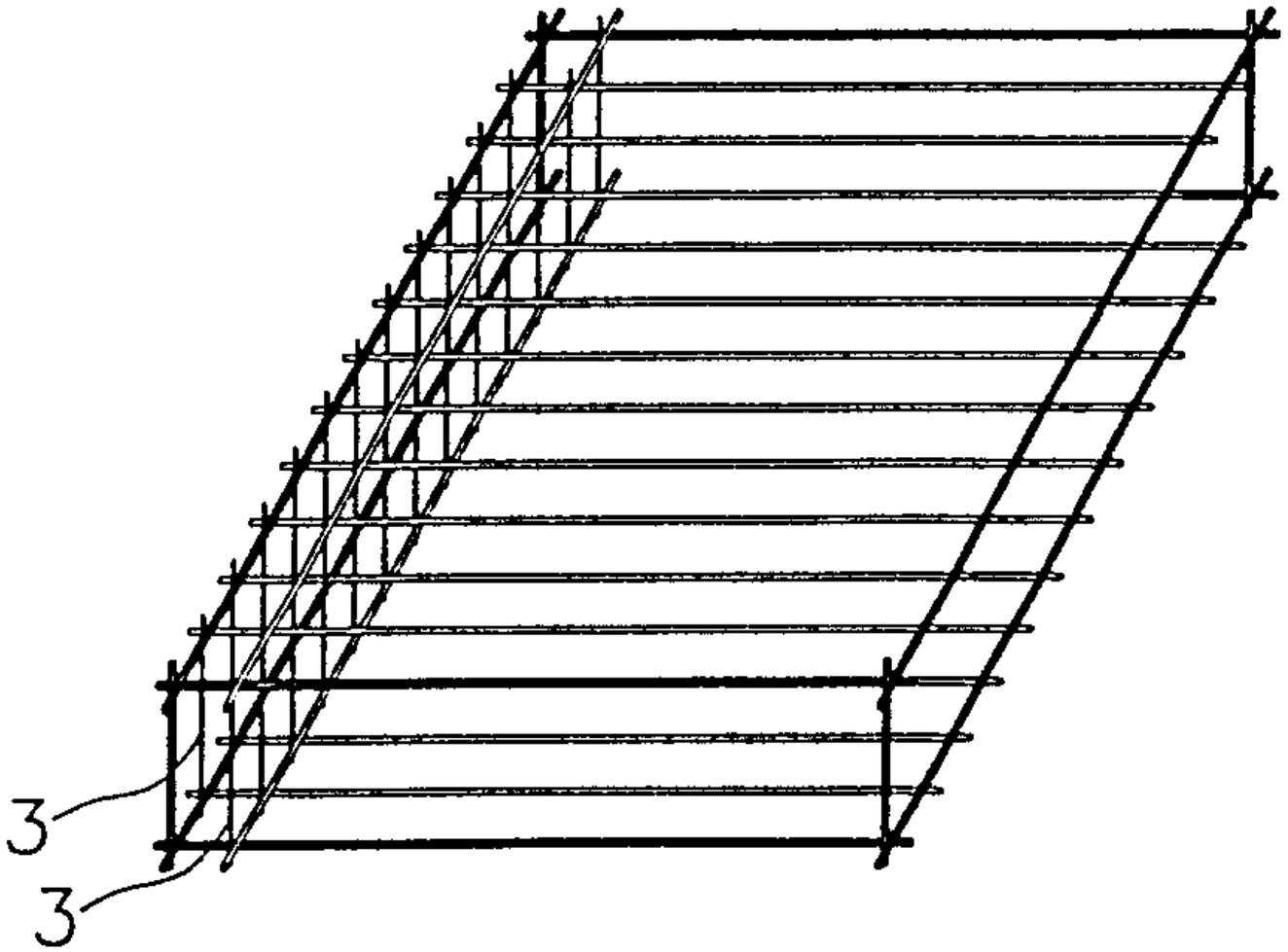
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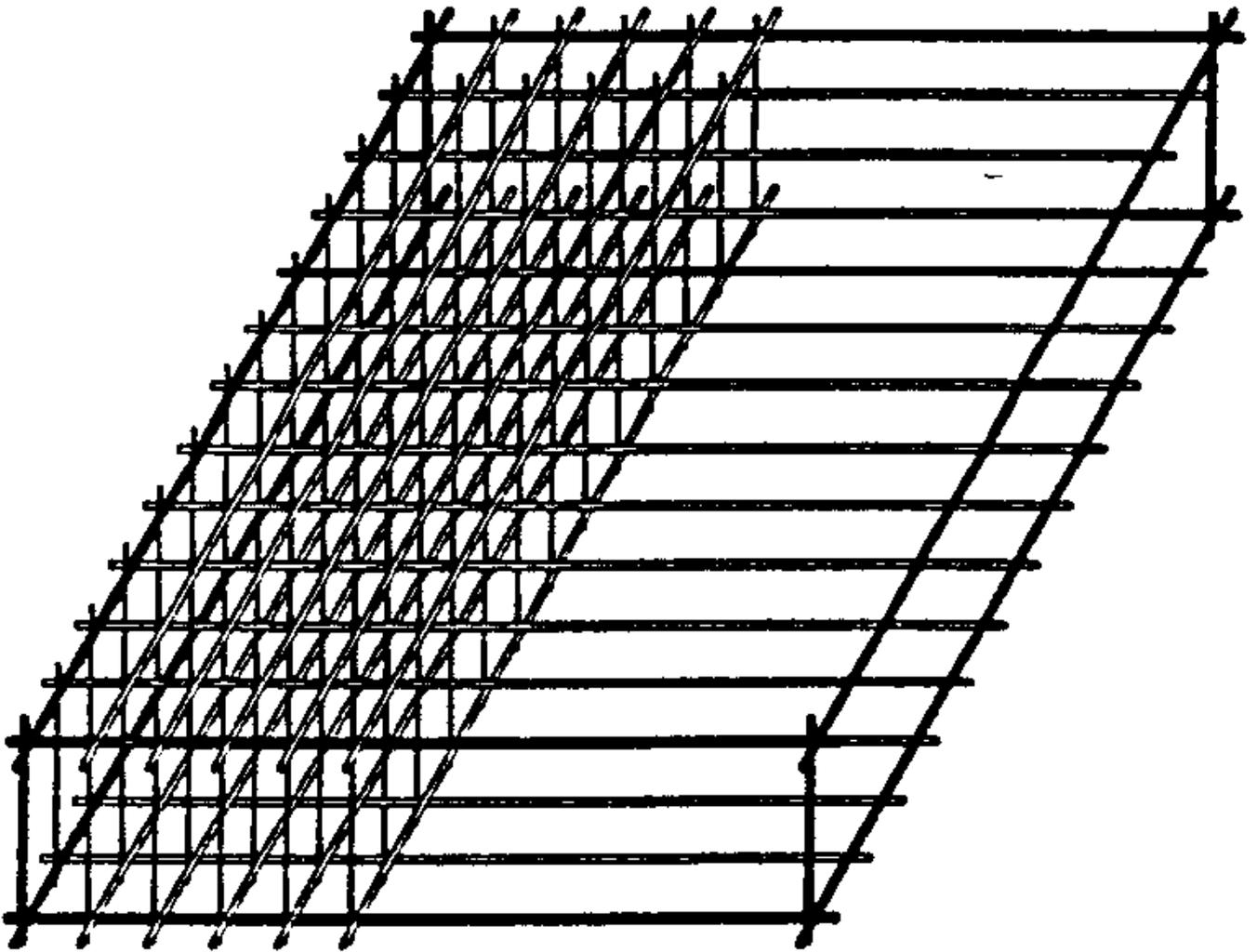
2c



2d

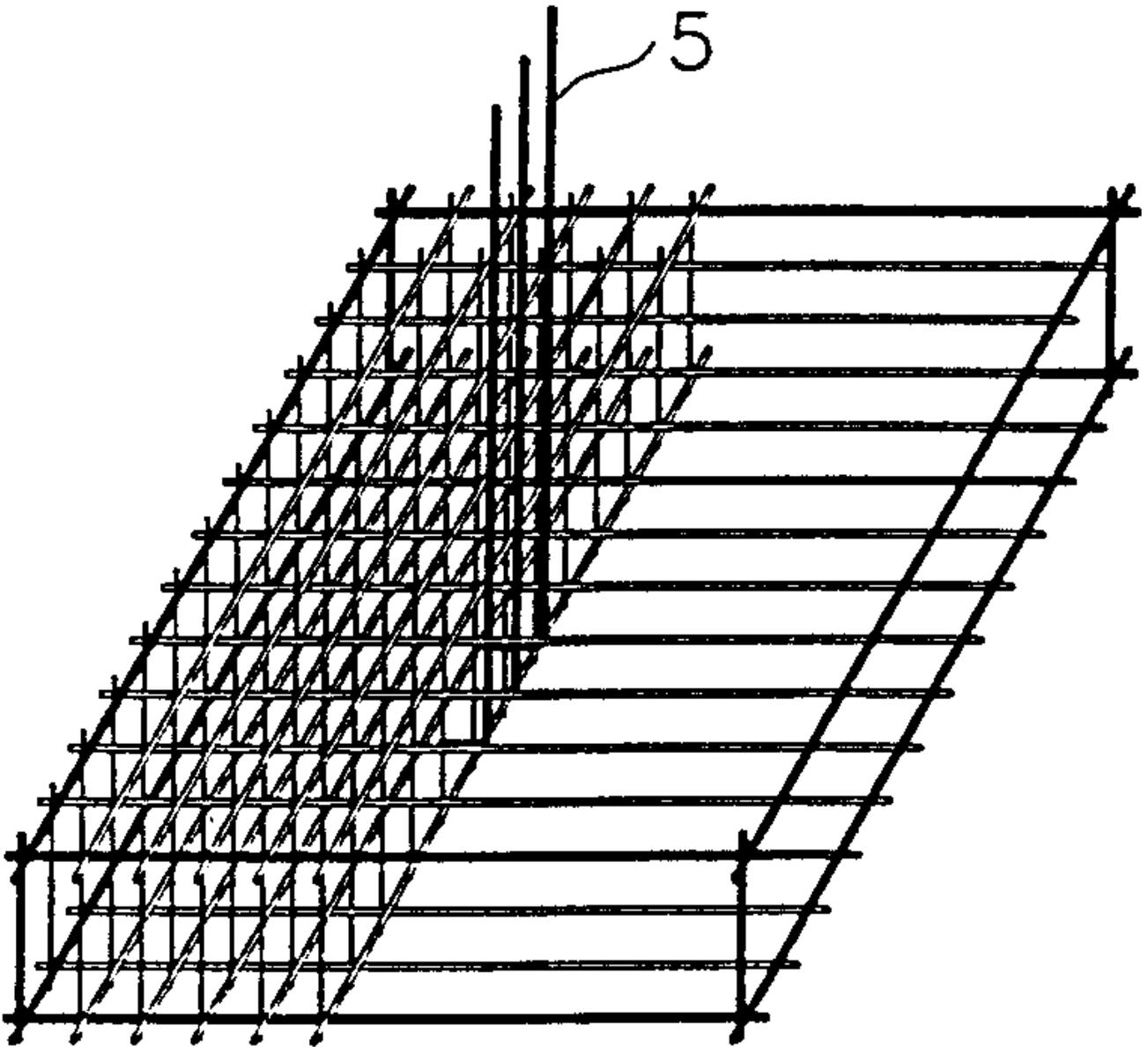


2e

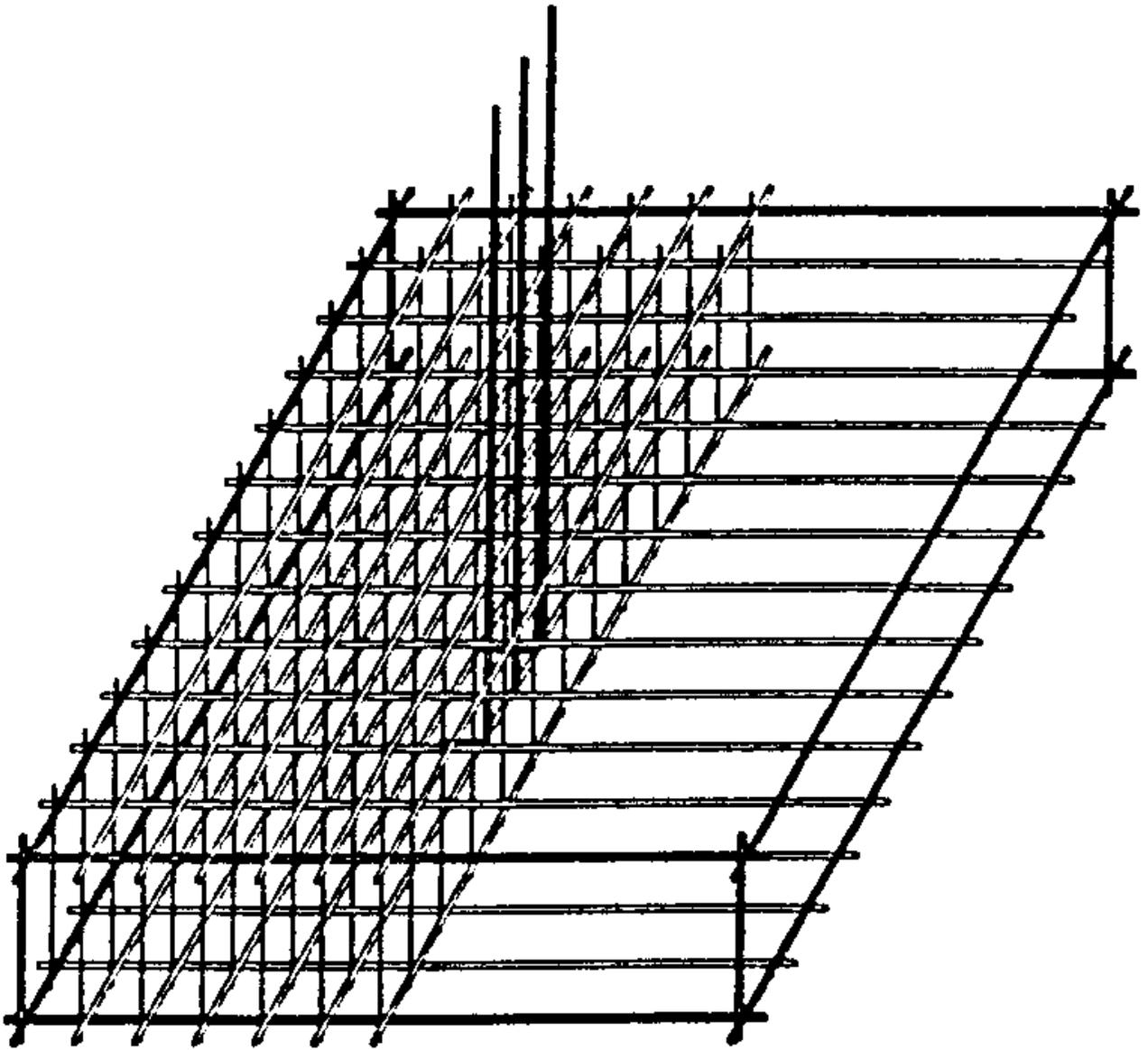


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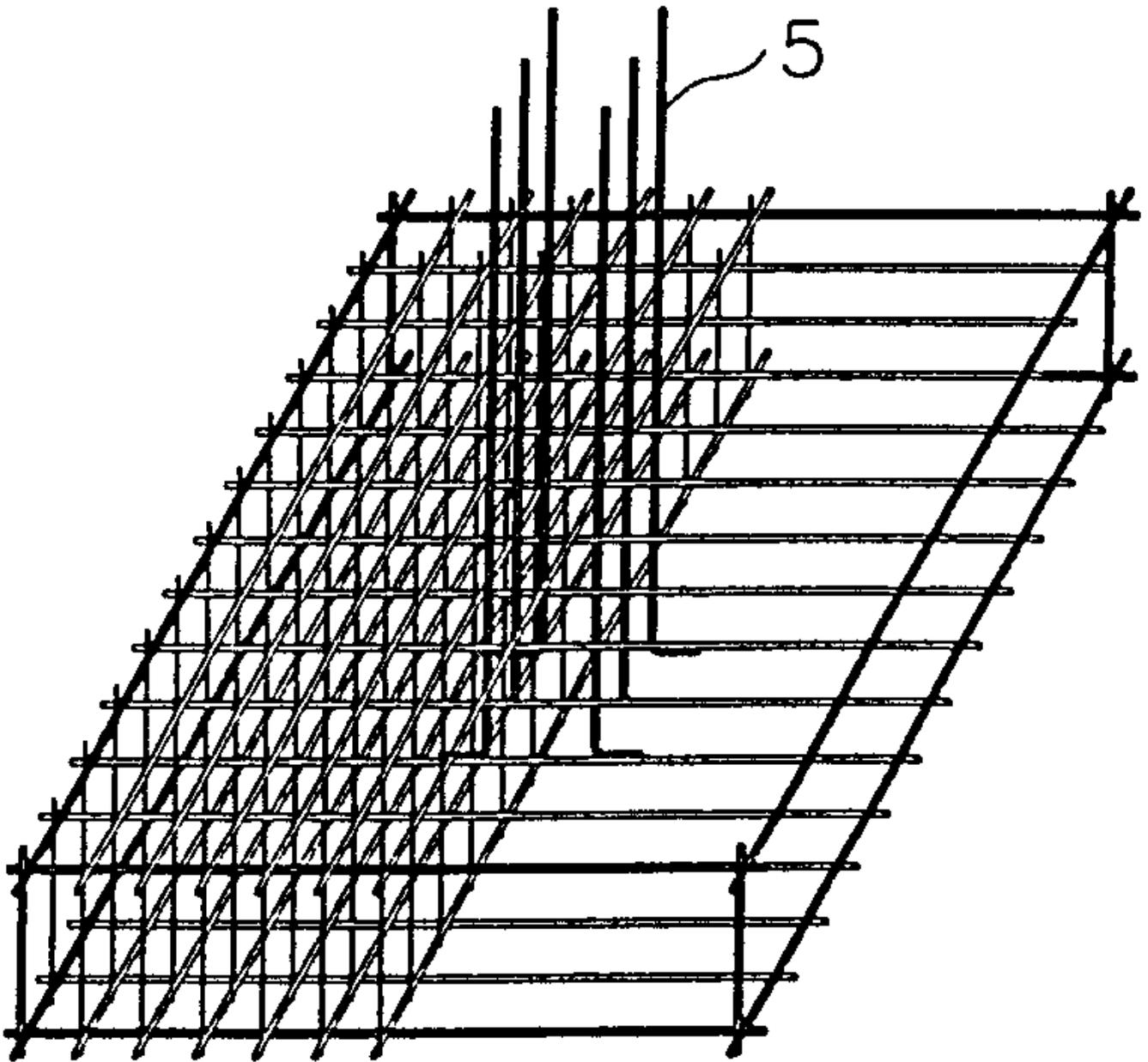
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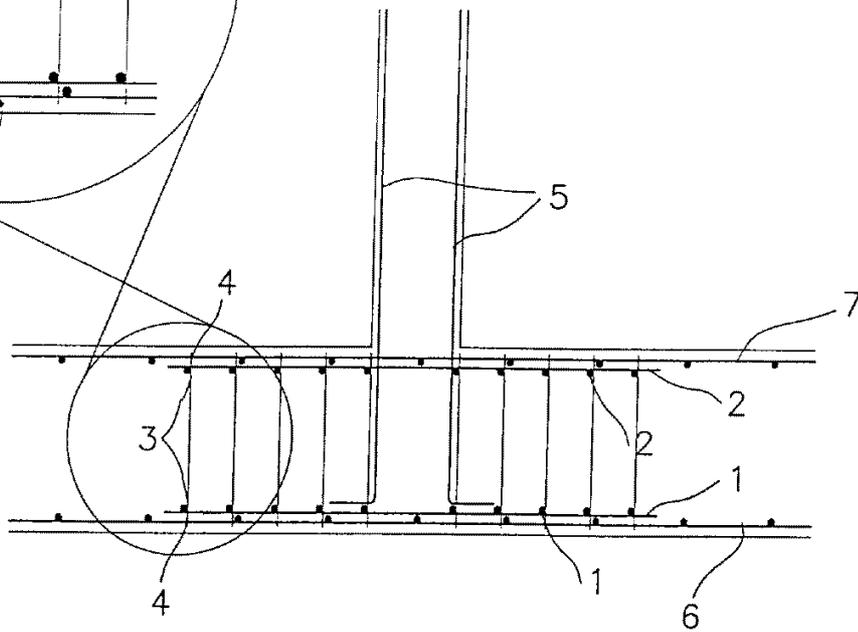
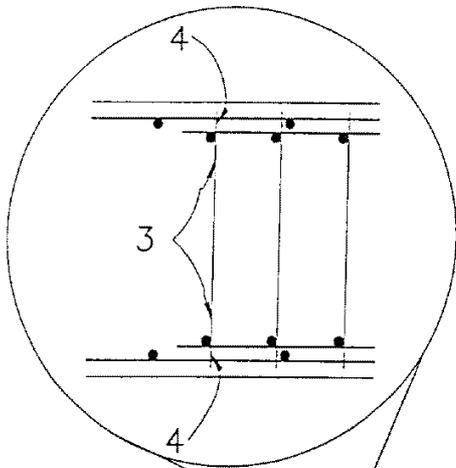
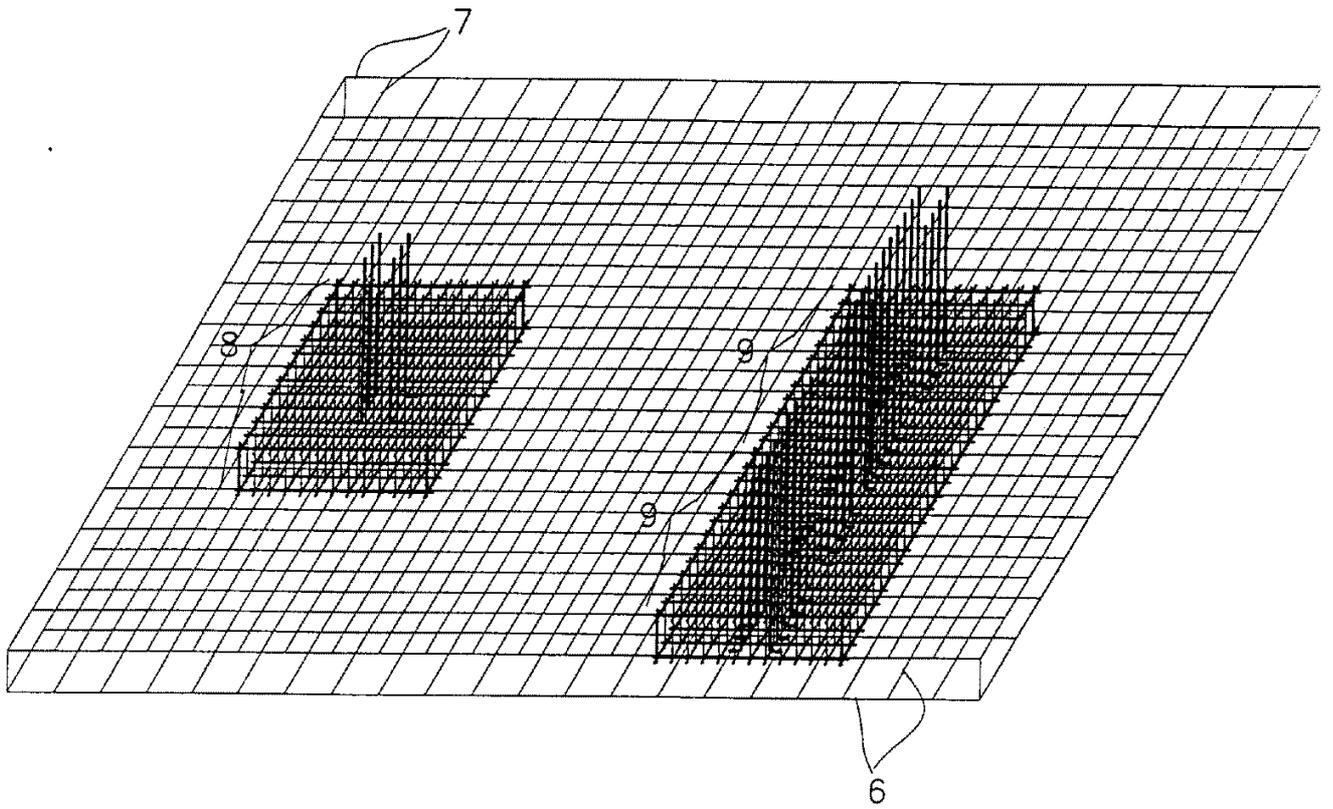
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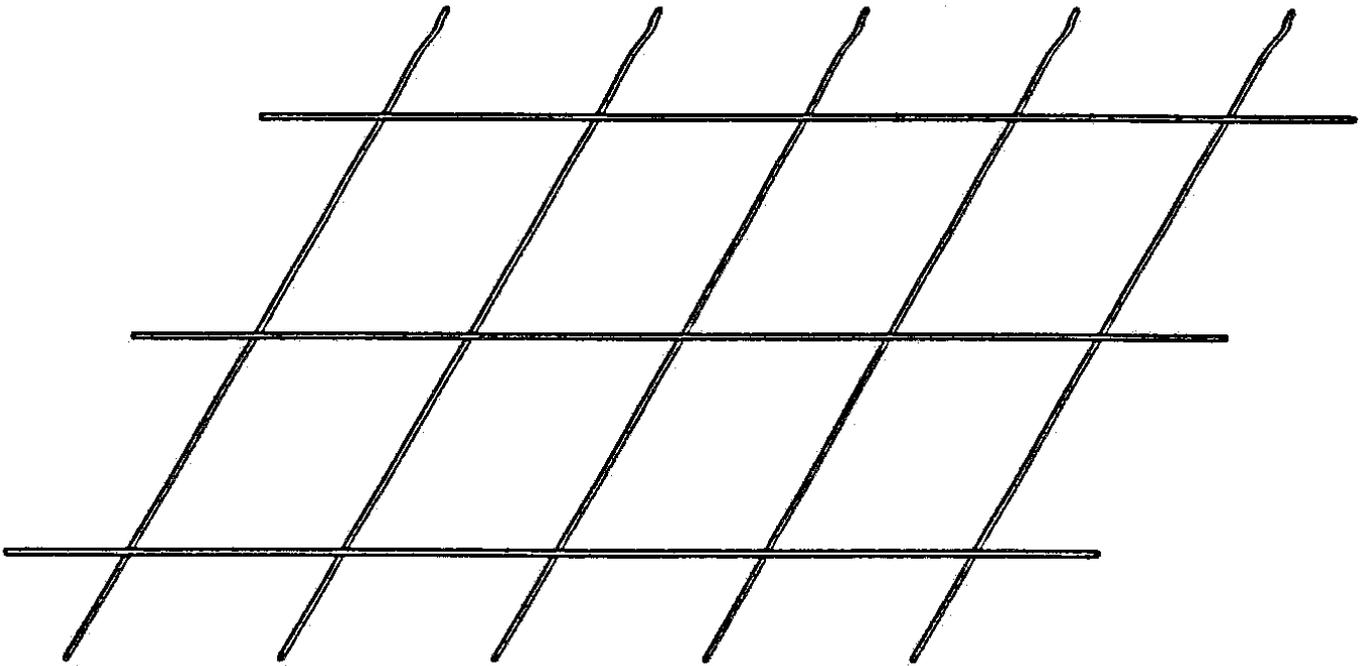
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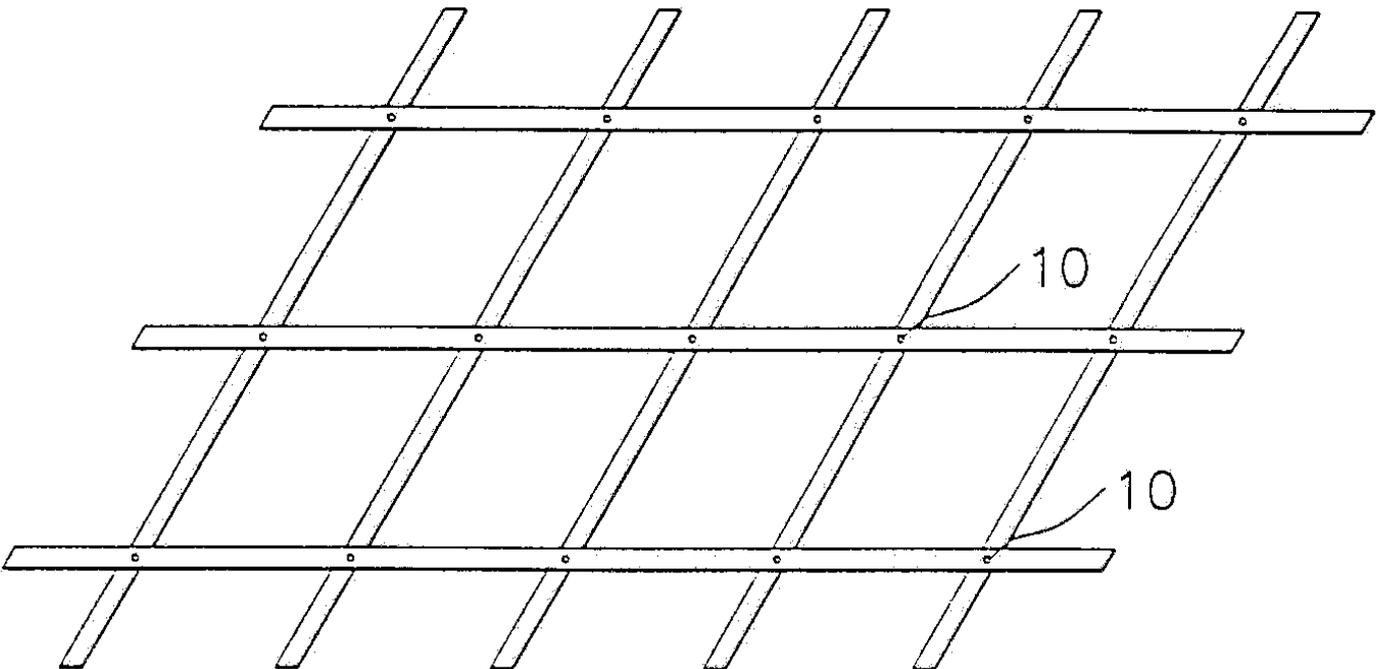
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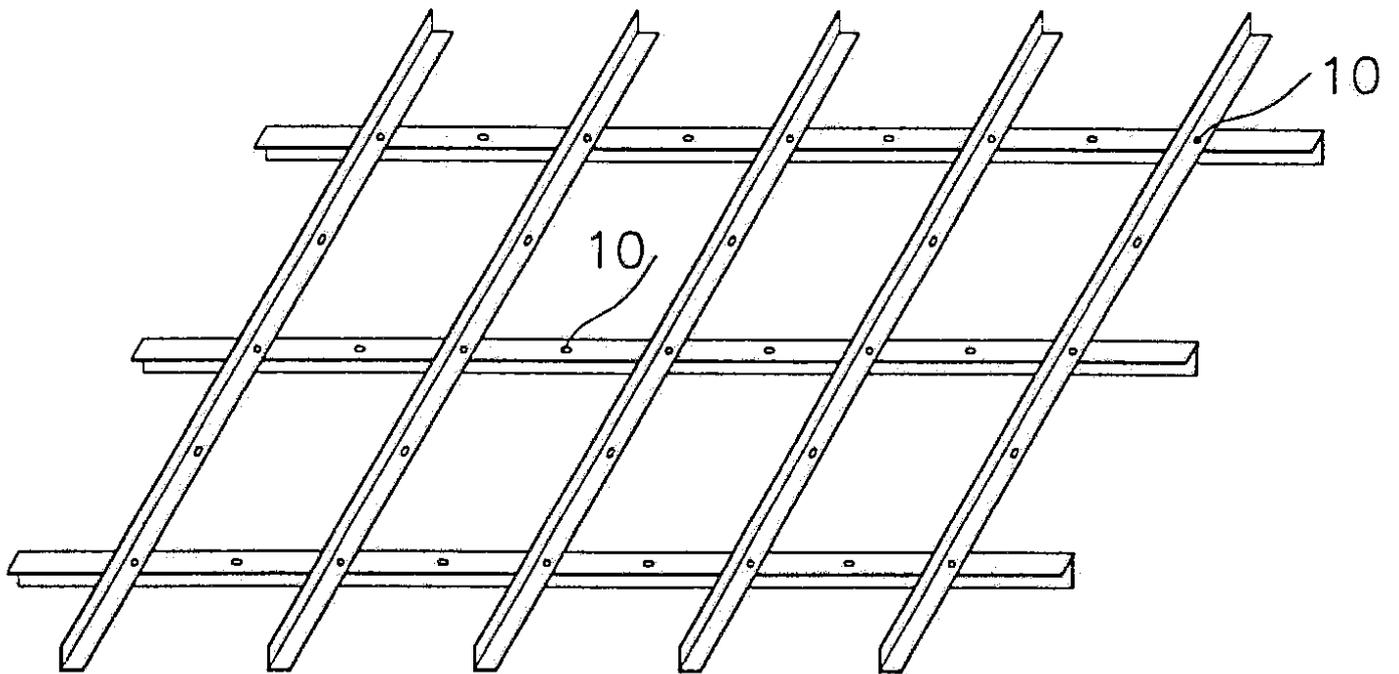
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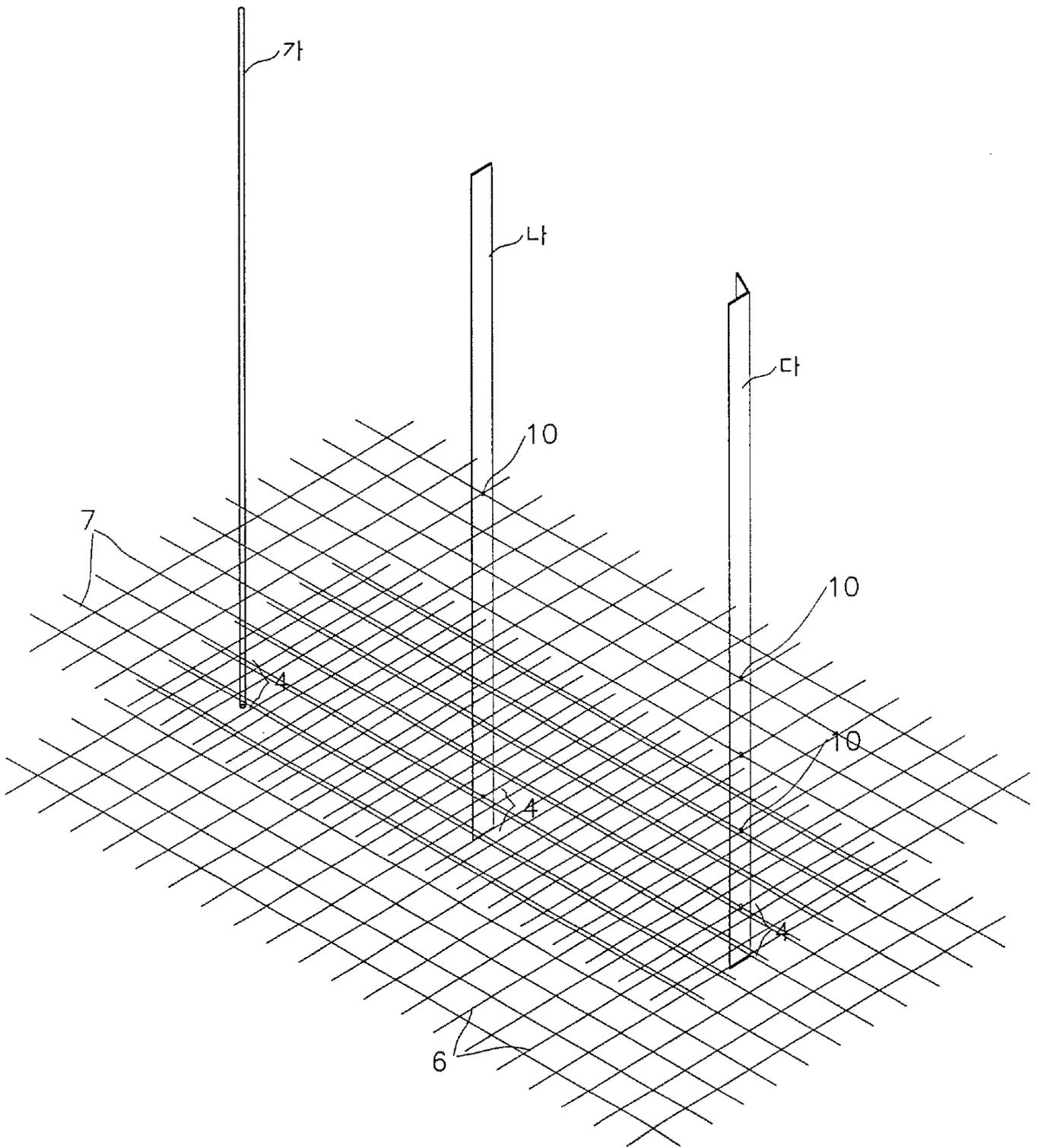
4b



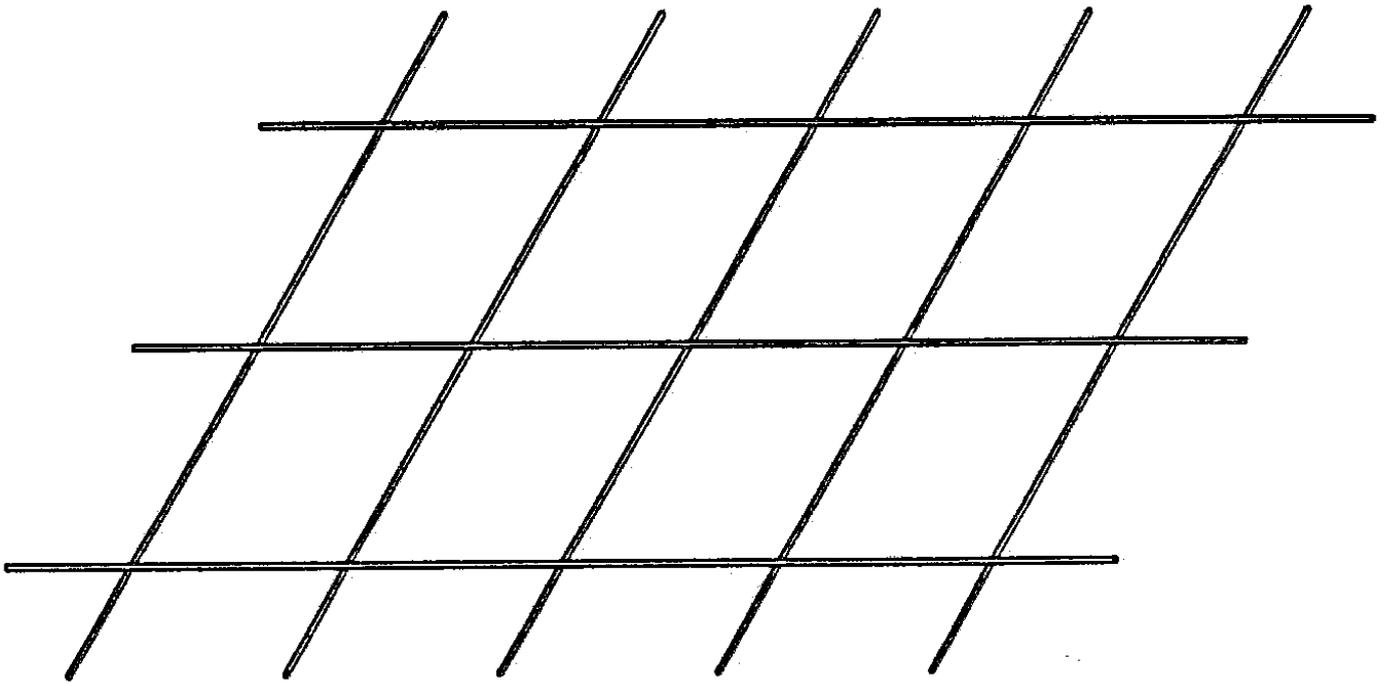
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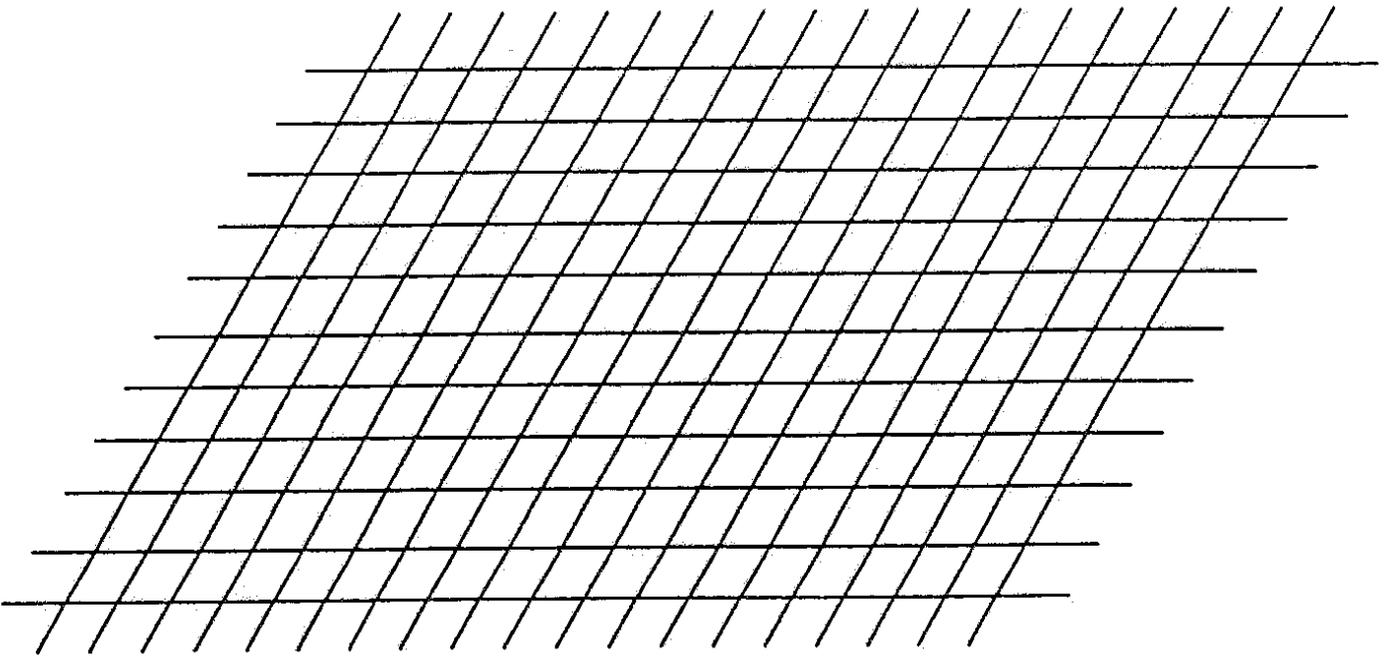
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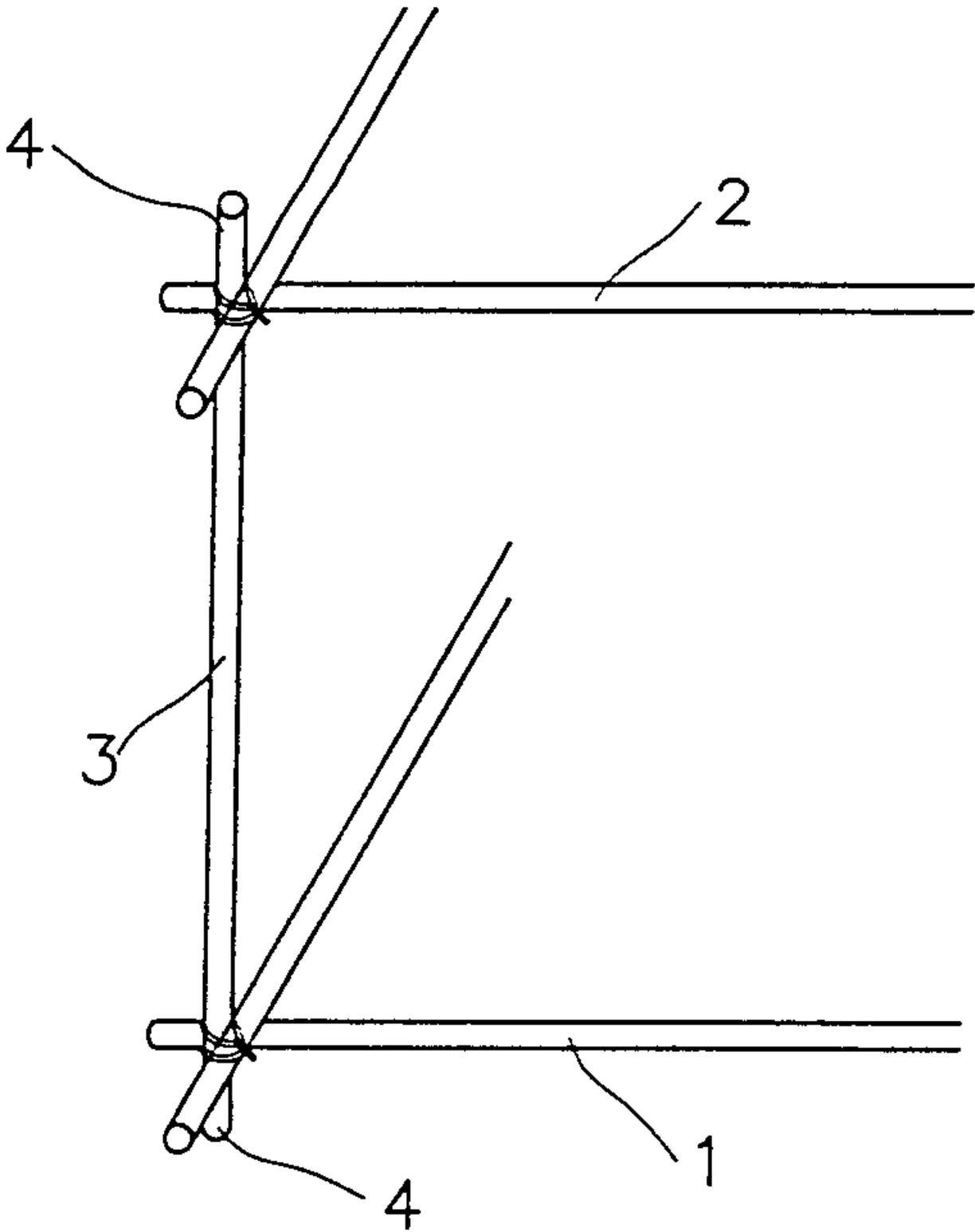
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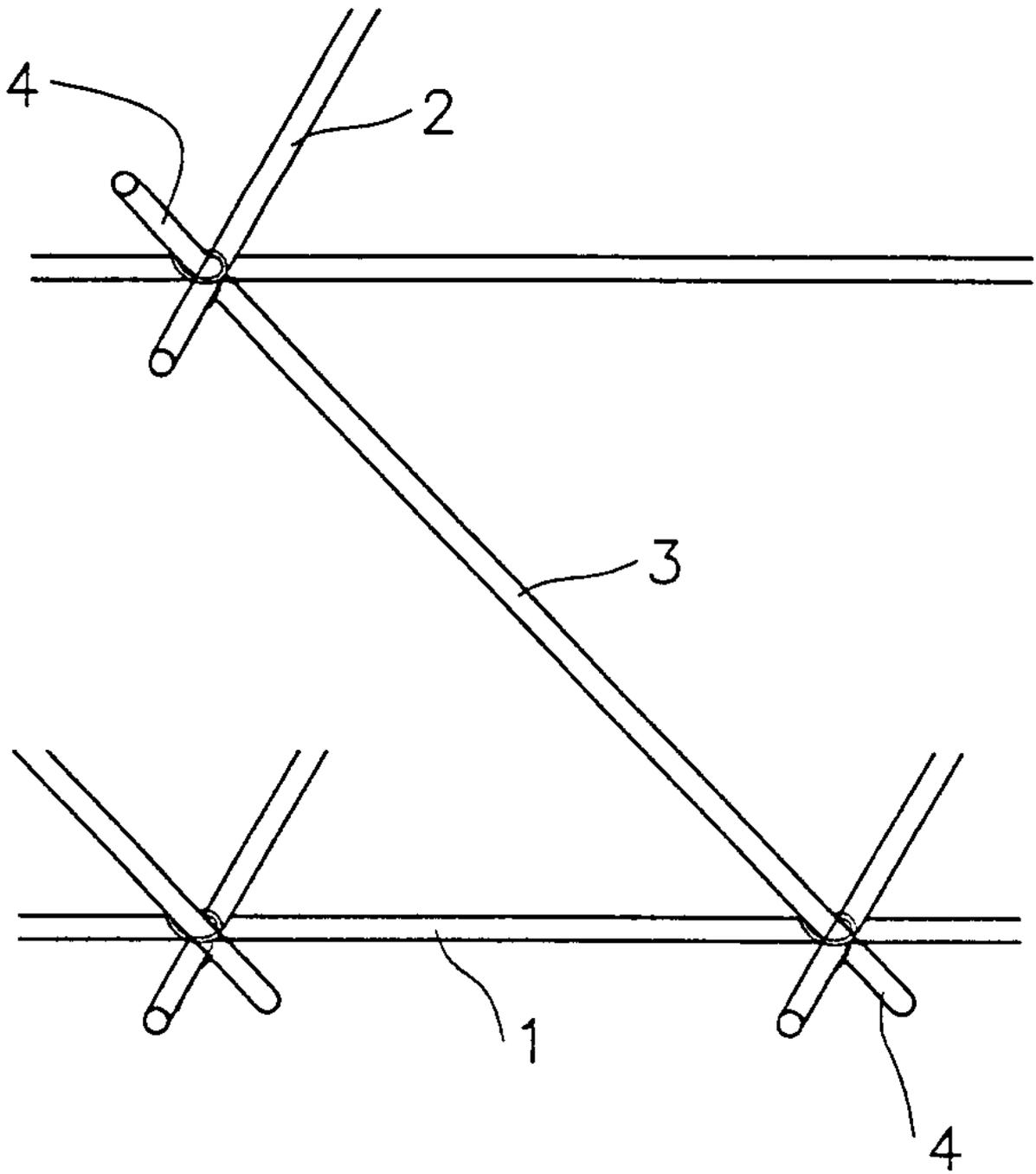
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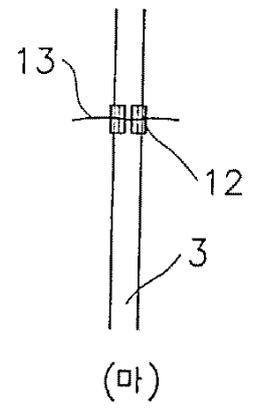
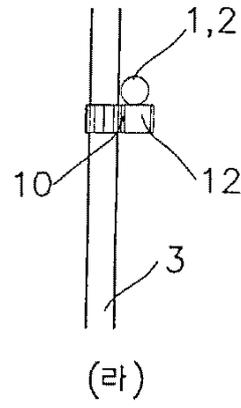
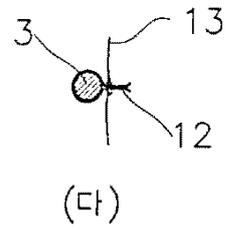
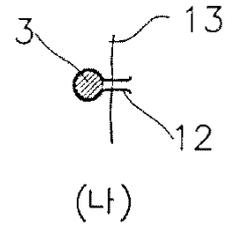
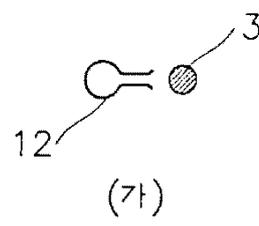
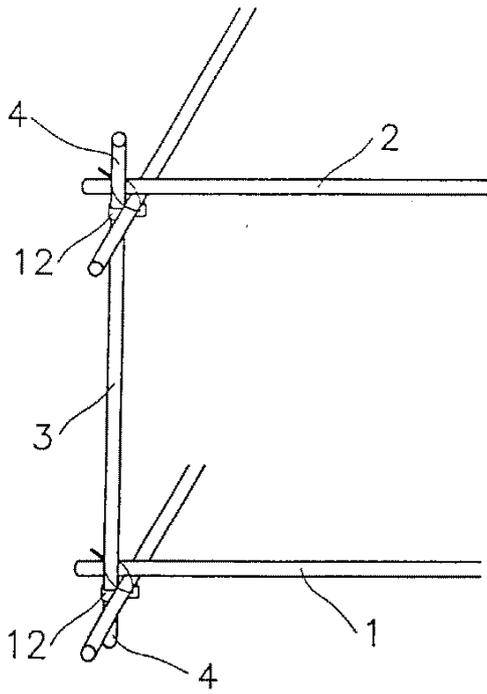
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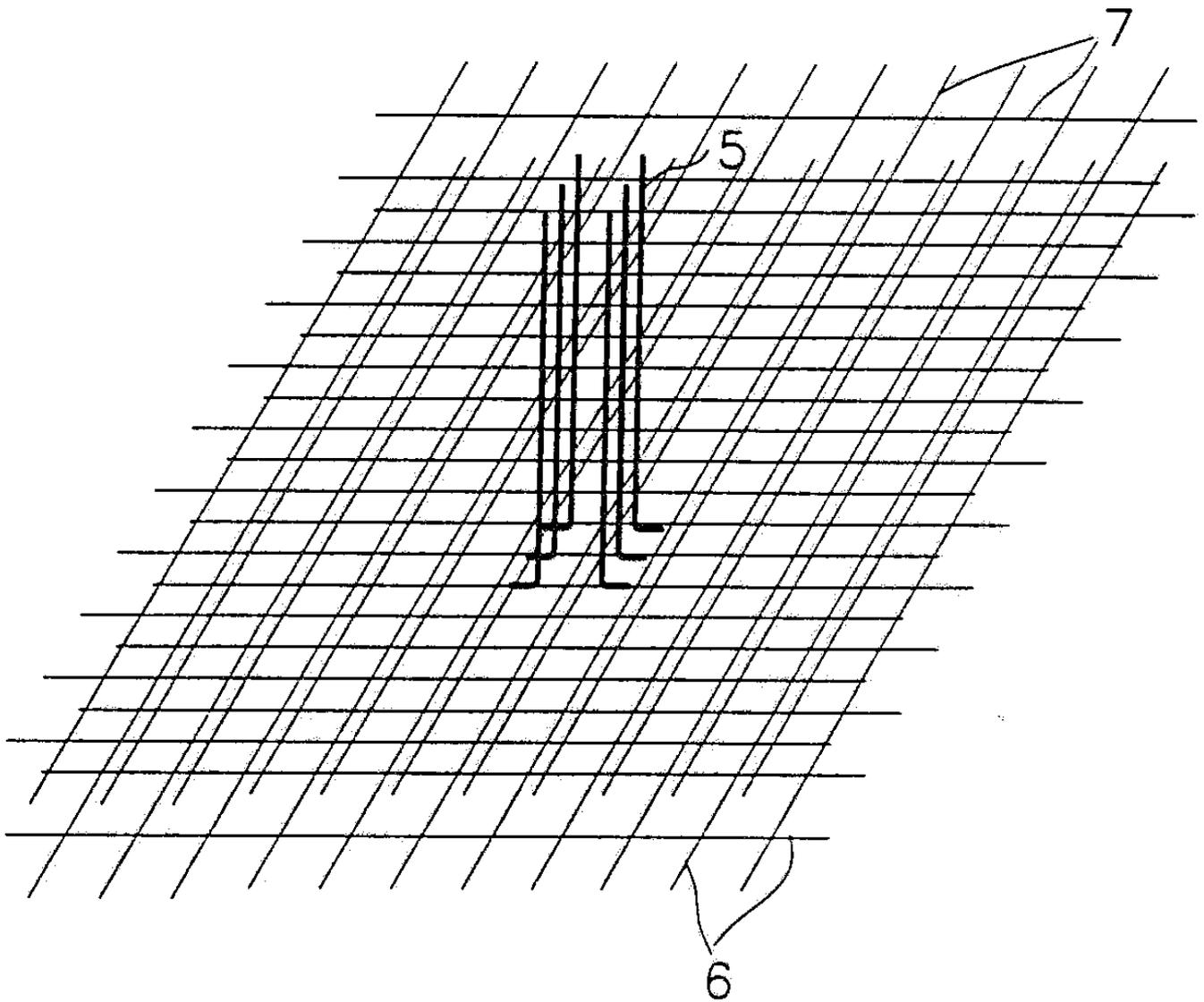
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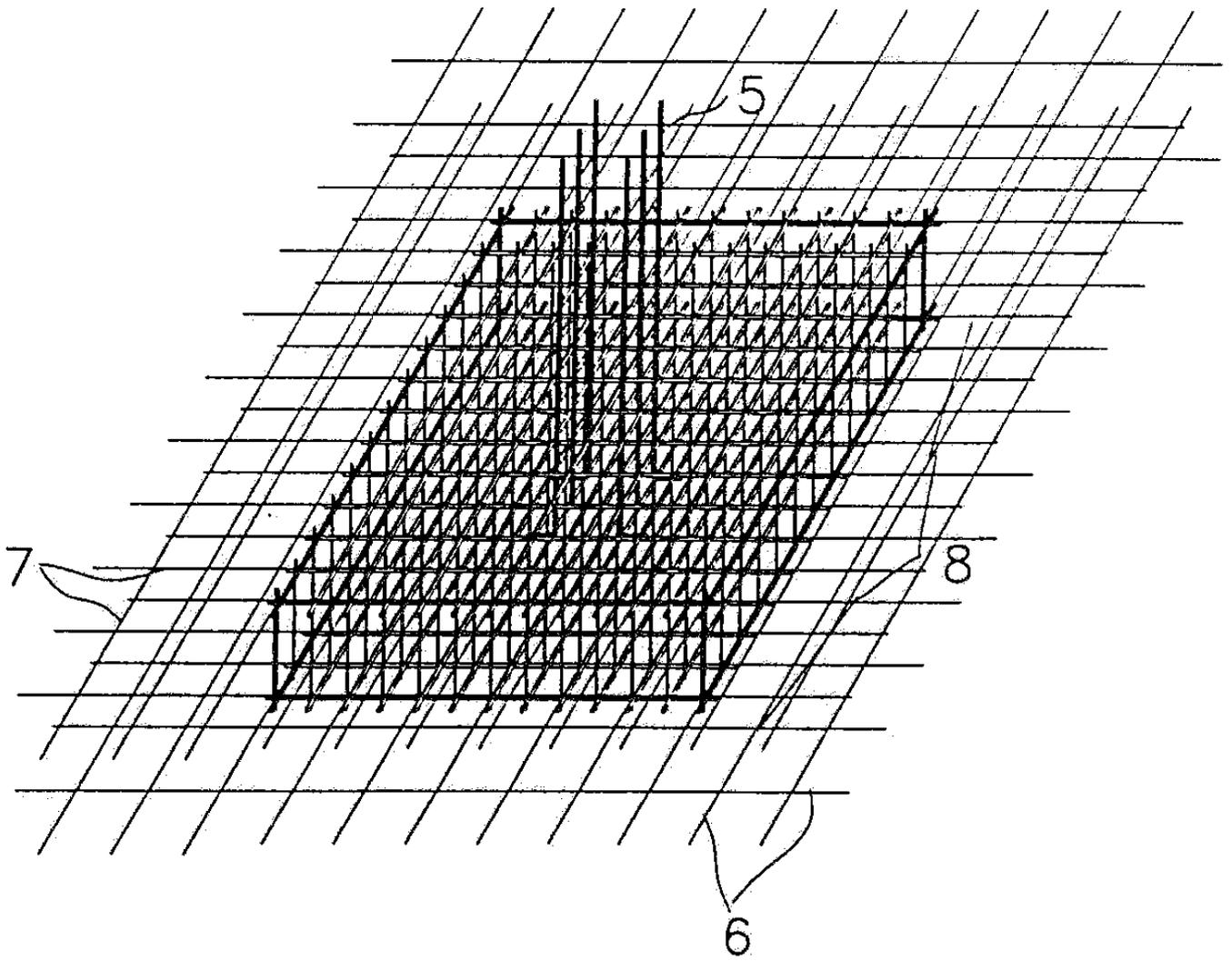
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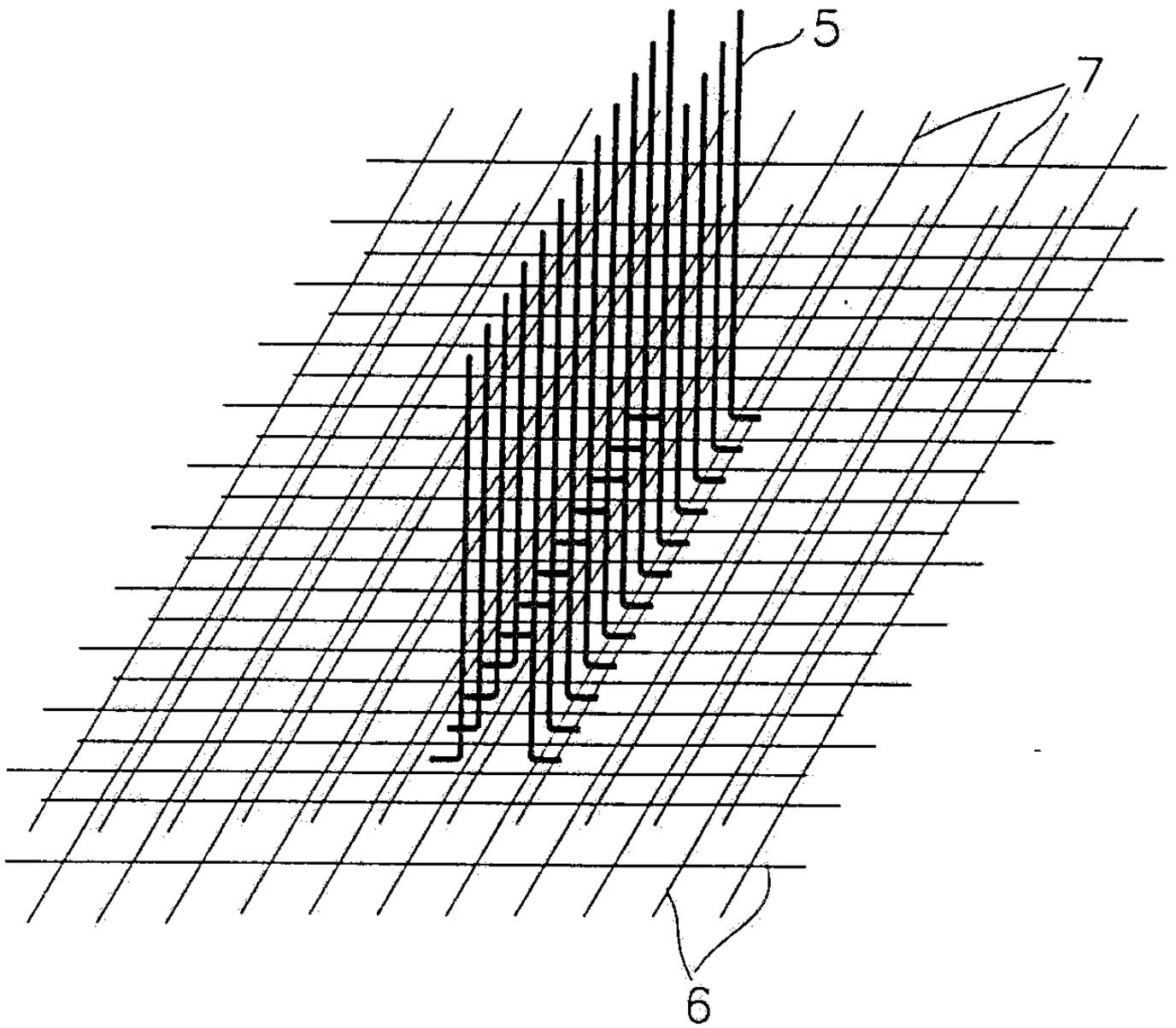
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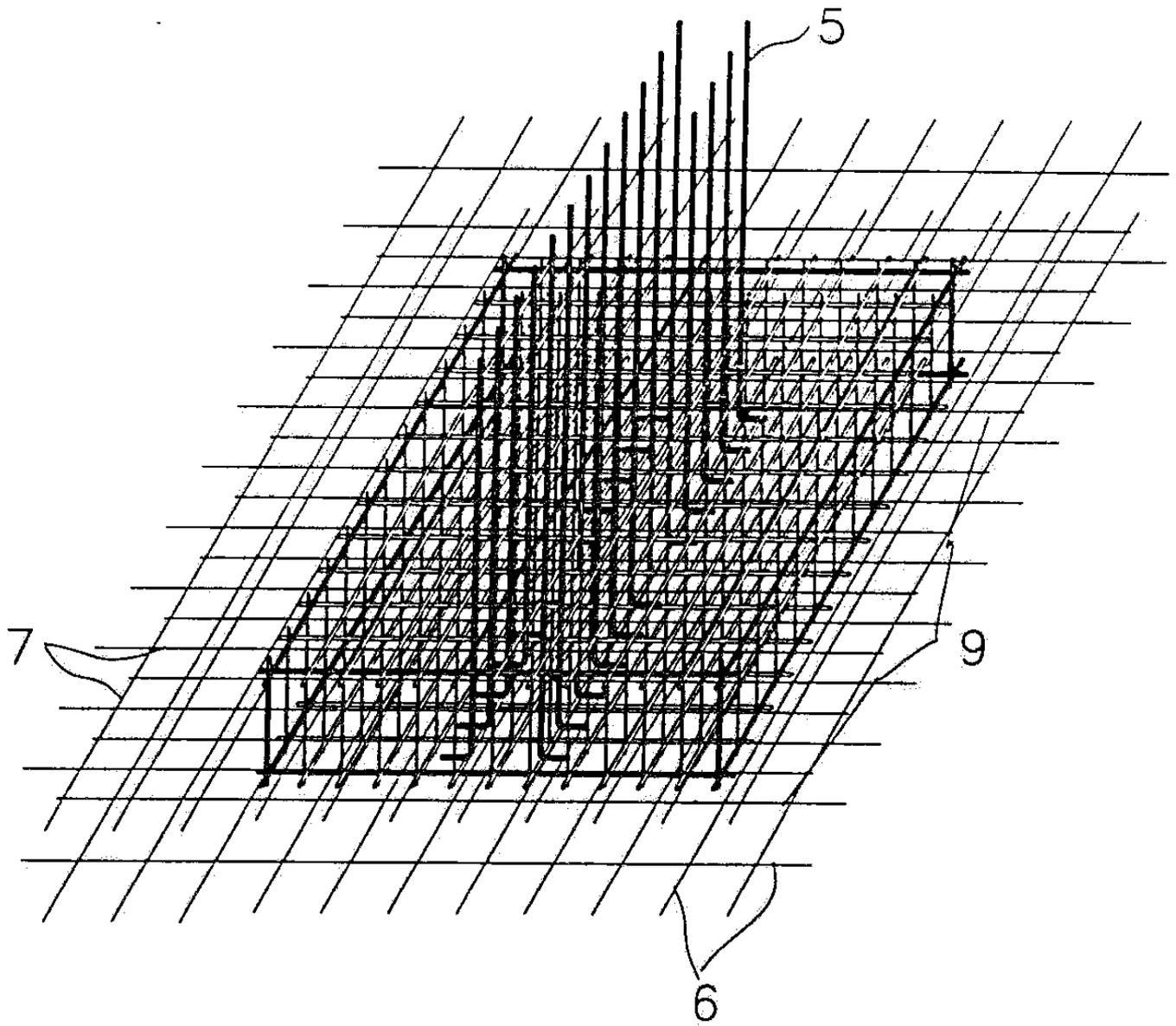
8b



9a



9b



10

