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2001 11 30
10 - 0279552
2000 11 01

(21)
(22)

10 - 1997 - 0053556
1997 10 18

(65)
(43)

1998 - 0003110
1998 03 30

(73)

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124

(72)

464 - 1

208 601

(74)

:

(54)

m , X Y n m n x
, X Y
가 n m n m ,
.

1

1 10 x 10 .

, X Y n m ,
 X Y n m , $n + m$
 $n \times m$, .

, , .

가 , X Y n m $n \times m$
 X Y 가 n m ,
 X Y 가 , , ' AND ' 가
 X Y 가 , X Y $n + m$, $n \times m$ 가
. .

, X Y n m
 $n \times m$; X Y n m ,
가 n m n m ;
, ; , .

, X Y
. .

가 , , 가 , 가
, , ,
. .
, , 가 ,
, , ,
가 . , , ,
. , , ,
, , , , .

1 10×10 . 1 (1)
 X Y n m (1) 10×10 (2)가
, X Y 10 (3)
. , X Y (3) ,
(4) (4) (1) (2)
(2) (2)가 . , (4) ,

가

2(a) , 2(b) , 2(c) 2(d) 10 x 10 가
X Y . 2(a) 2(b) 가
(2) 가
2(c) 2(d) 가
(2) 가

3 16 x 16 , 1
10 x 10 4 가 , 1
가 X Y n m (1) 가 3
(2) 16 x 16 (2)가
(1) 4 (1) (6)
X Y 8 , 32 (1) ()
1 (6)
(5)가

(2, 2)
; , X n (4, 4) , Y m (4, 4)
(4, 4) (4, 4) , X (2, 2)
(2, 2) (2, 2) , X (2, 2)
(2, 2) Y (4, 4) (2, 2)
, X Y (4, 4) , (2, 2) , (2, 2)

m 가 X Y n m n x
X Y 가 n m
X Y 가 , , ' AND ' 가
, X Y n + m n x m

$\begin{pmatrix} 1 \\ \vdots \\ 1 \end{pmatrix}$ 가 $\begin{pmatrix} 1 \\ \vdots \\ 1 \end{pmatrix}$ 가
 $\begin{pmatrix} 1 \\ \vdots \\ 1 \end{pmatrix}$ 'AND' 가 $\begin{pmatrix} 1 \\ \vdots \\ 1 \end{pmatrix}$, $n + m$
 $n \times m$

(57)

1.

X Y n m $n \times m$ 가 X Y
 m , X Y $n + m$, , 'AND' 가 $n \times m$ 가 X Y n
 X Y 가

2.

i) X Y n m $n \times m$,
 ii) 가 X Y n m n m ; iii) ,
 ; iv)

3.

2 , X Y

4.

2 , ,

5.

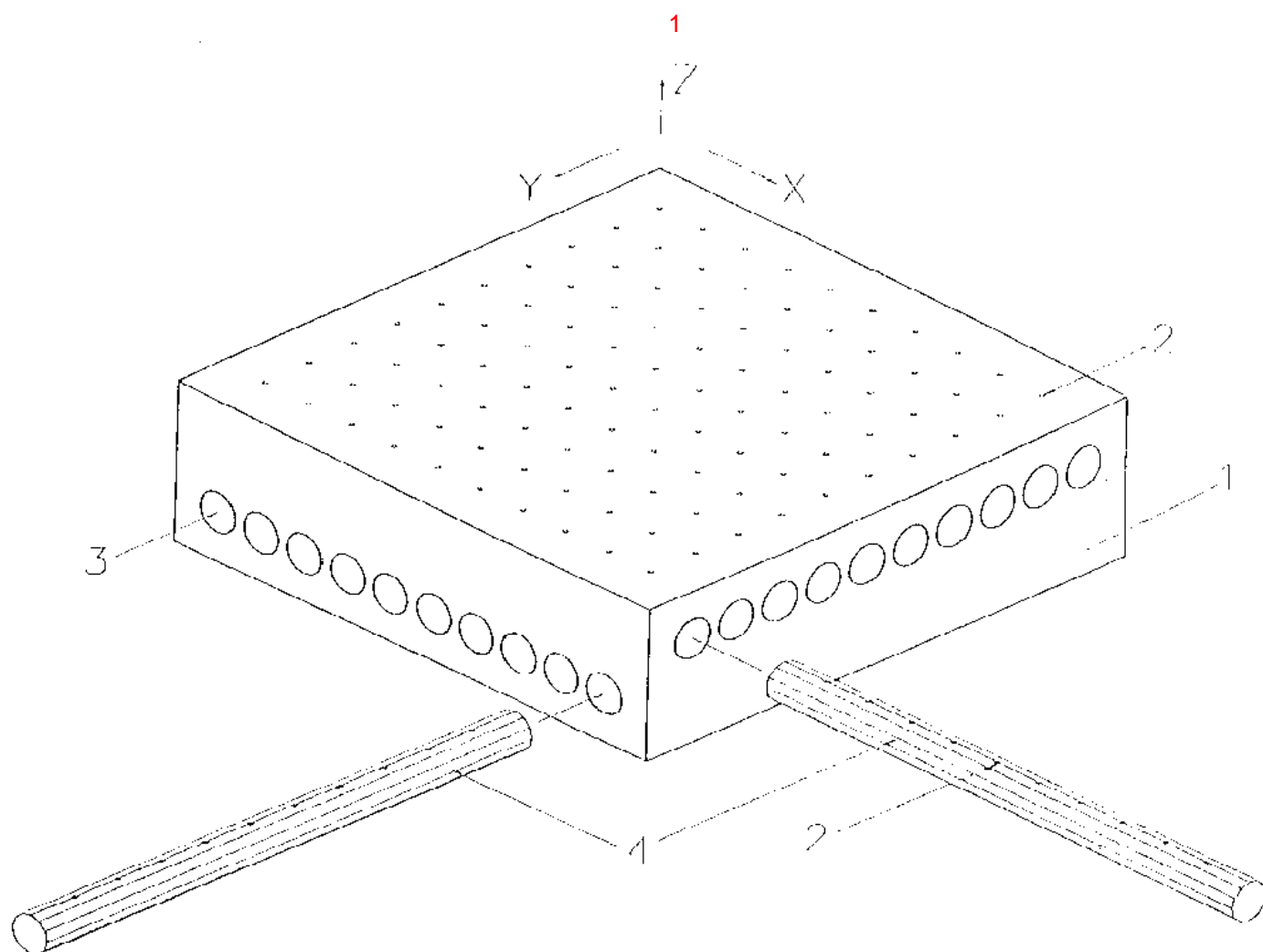
4 , 가

6.

2 4 , ,

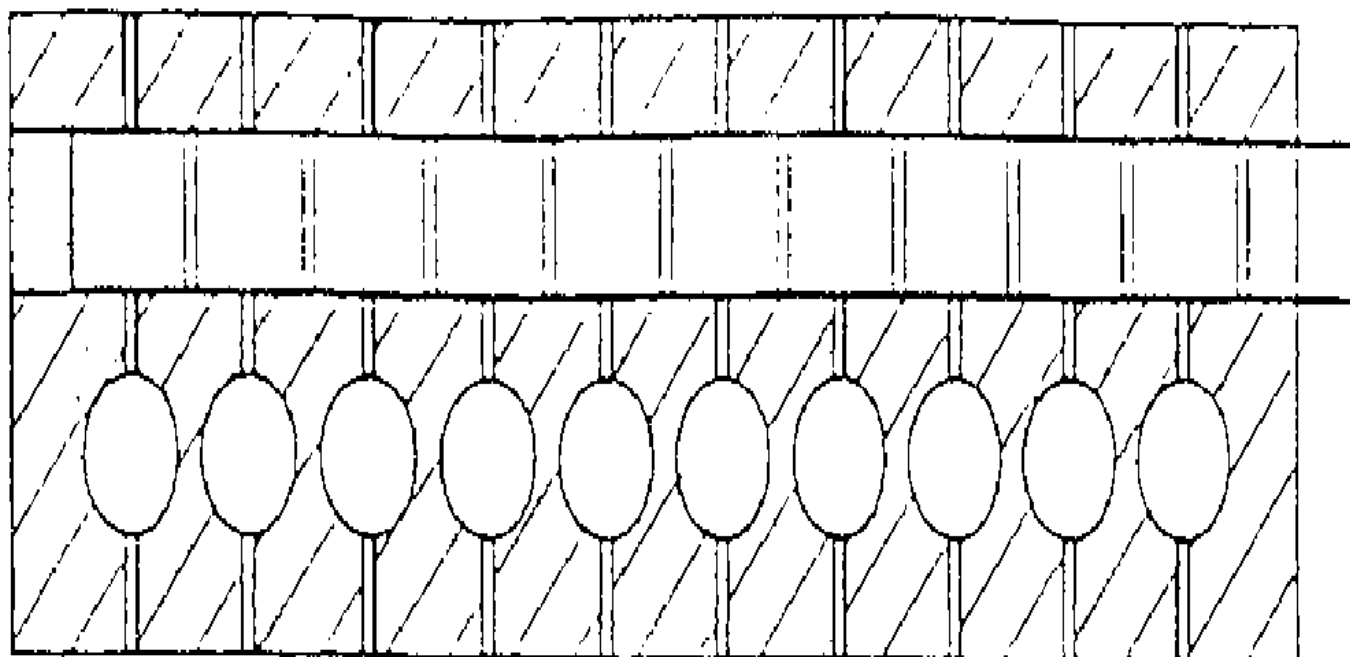
7.

2 4 , ,

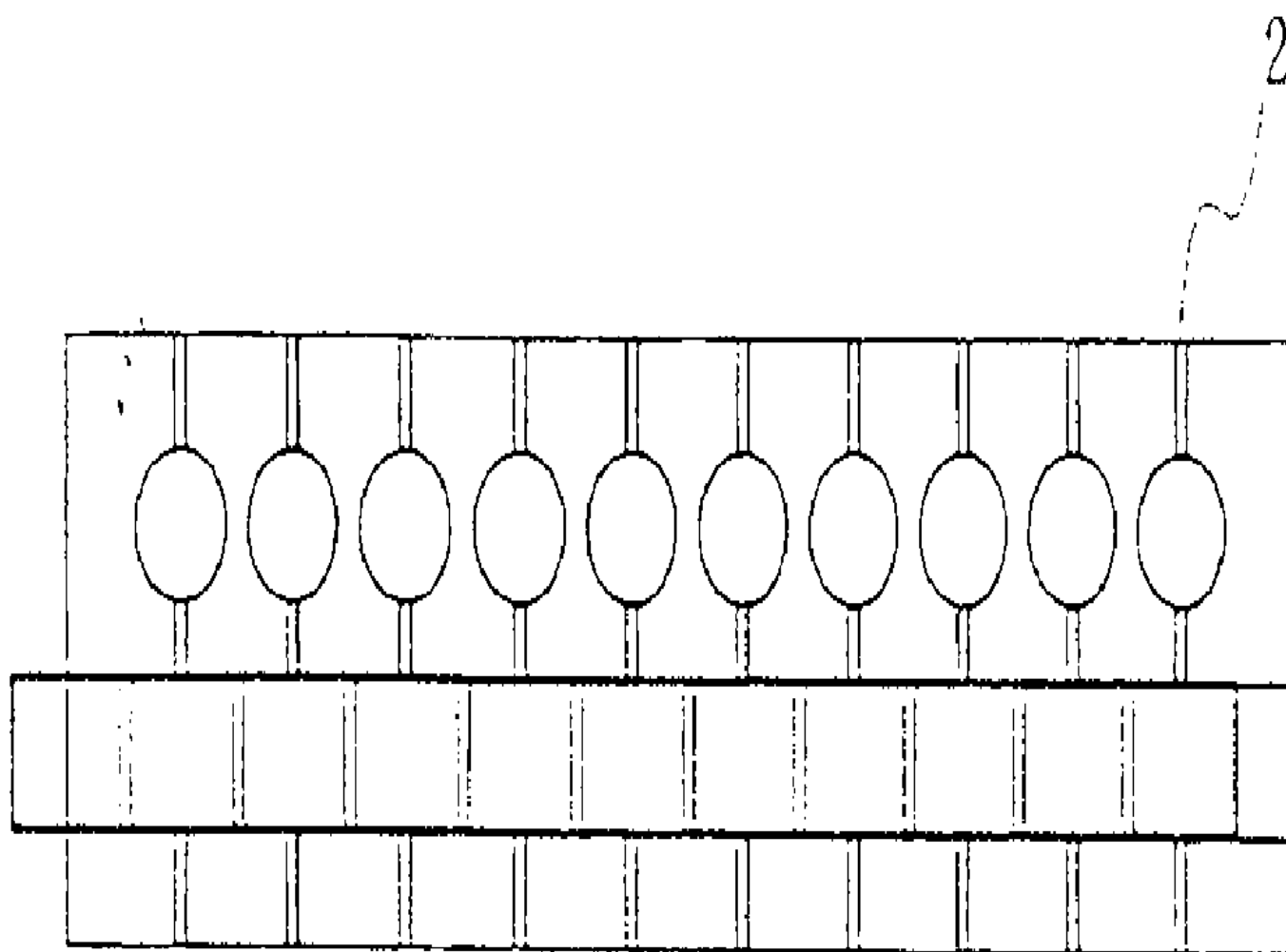


2a

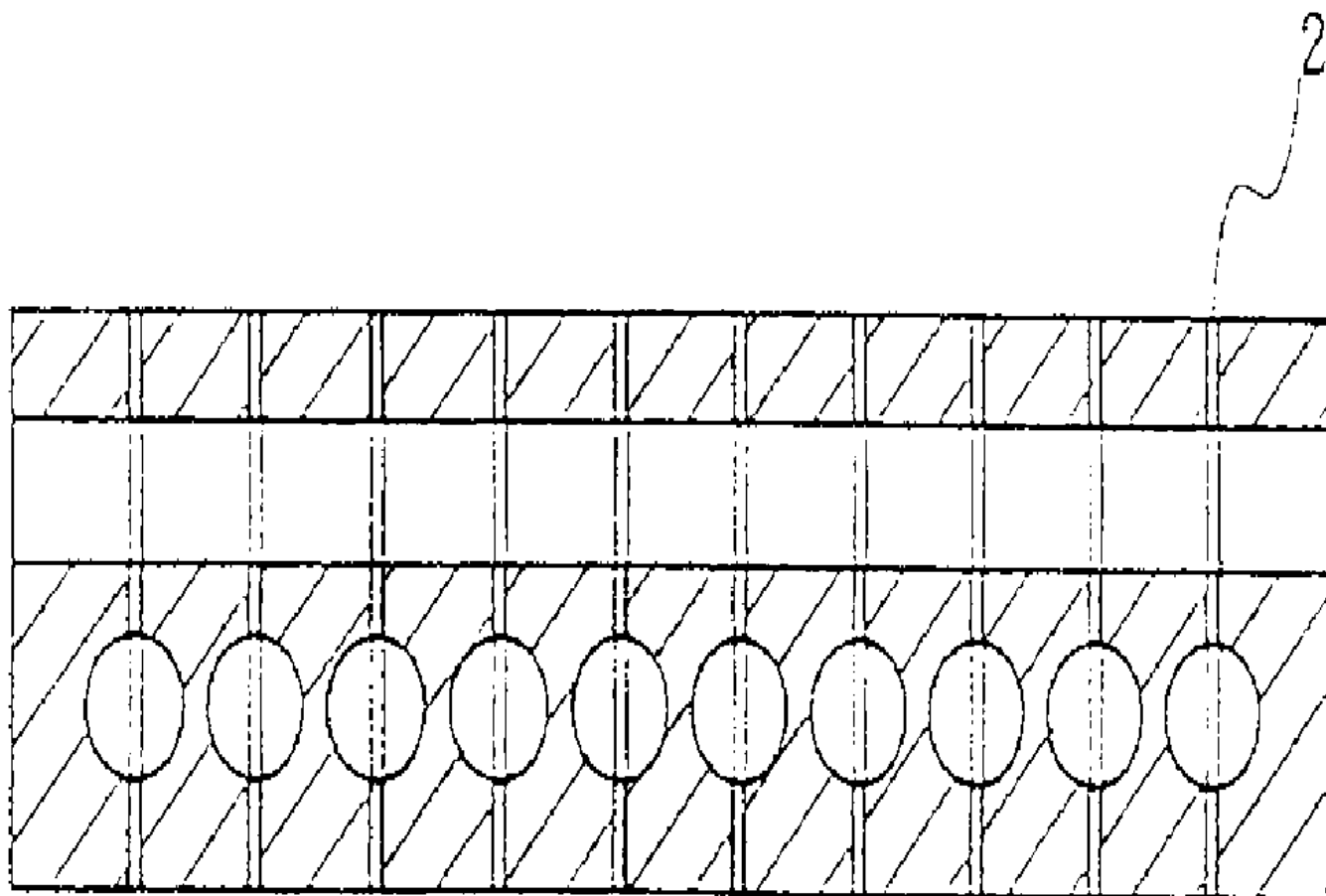
2



3b

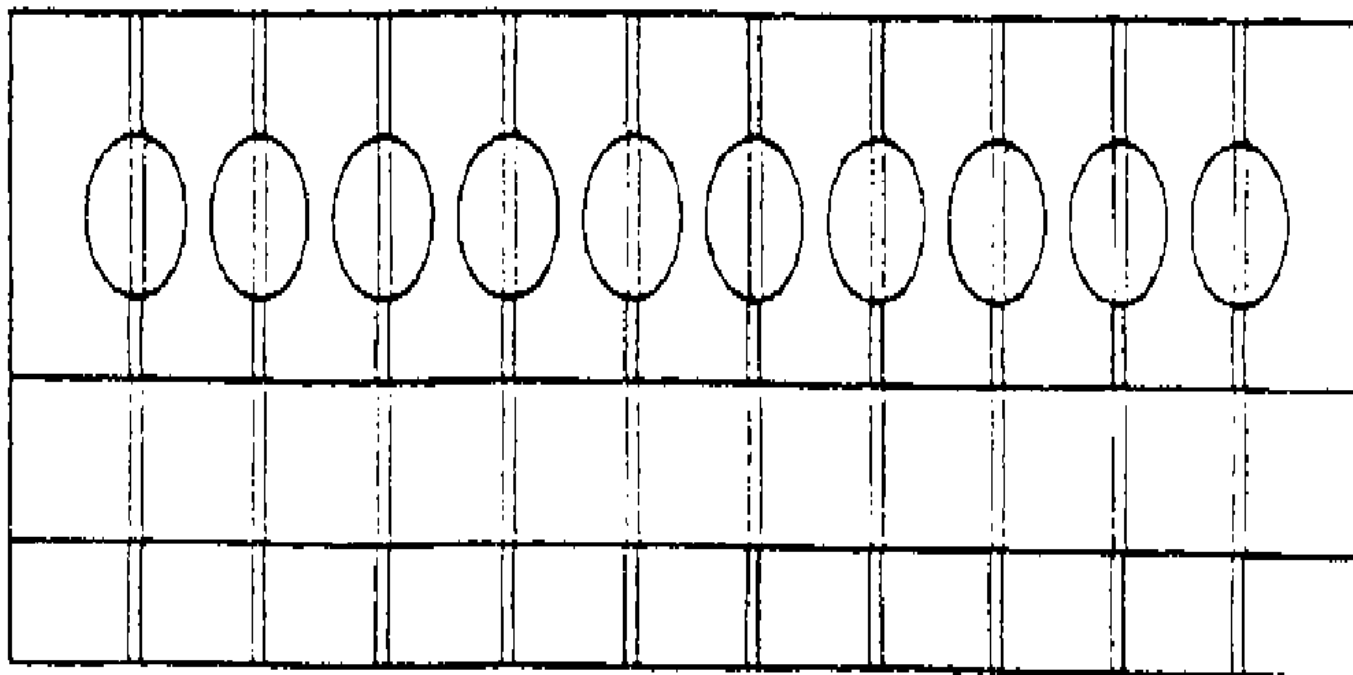


2c



2d

2



4

