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2002 01 09(21) 10 - 2001 - 0037033
(22) 2001 06 27

(30) 2000 - 198284 2000 06 30 (JP)

(71) 가 가
,
2 2 3(72) 가
2 2 3 가 가

(74)

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(54)

, 가 . i (3) (5j) , k (3) (5i) ,
j (3) (5k) , l (3) (5l) .
Di ~ DI , , 1 (7)
가 , TCi ~ TCI , , 1
(7) .

1	1	,
2	,	,
3	2	,
4	,	,
5	1	,
6	1	,
7		,
8	3	,
9	3	,
10	4	,
11	4	,
12	11	M
13	11	N
14		.

1 : 2 :

3 :

4, 4L, 4R :

5i ~ 5l :

6 : 7 :

9ia ~ 9la, 9ib ~ 9lb :

12i, 12ja, 12jb, 12ka ~ 12kc, 12la ~ 12ld, 13i ~ 13l : DFF

('PDP')

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, , . 14
(102) , (2894039). (101) 1
(102) , (102) (103) .
1 2

(102) (104) (103) (101)
4 (103) (105i) (左端) 1/4 i
(103) (105j) 1/4 j
k (103) (105k) 1/4
(右端) 1/4 l (103) (105l)

(104) (105i ~ 105l) (106)
(105i ~ 105l) (107) (105i ~ 105l)
() (107) (106)

(106) 가 , (106) S1,
S2, TC S3
가, (106) S3가 , (107)
Di ~ DI , (107)

(105i ~ 105l) (106) S2 TC가
Di ~ DI (105i ~ 105l) (107)

, (101) (103)
, (103) (105i ~ 105l)가
, (107) (105i ~ 105l) Di ~ DI
, (103)
가 가 ,

, (107) Di
~ DI , TC Di ~ DI (105i ~
105l)가 .

, 6 1 1 1 1
 , 2 1 2 , 1 2 1
 1 1 2 , 2 2 , 1 ,
 2 , 1
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 1 1 2
 2 1 2
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(1)

1 1 (1) 1
 (2) , (2) () ,
 (2) 1 2 (3)
 . (2) (1) (4) .

(3) (1) (1 4)
 (1) 1/4 (3) i ,
 (5i) . (1) 1/4 (5j) (1)
 3) j , (3) k ,
 1/4 (5k) (1) 1/4 (3) l
 (5l) .

(4) (5i ~ 5l) (6)
 (5i ~ 5l) (7) (5i ~ 5l) ()
) . (7) (6) .
 (6) 가 , (6) S1,
 S2, TCi ~ TCi S3 (7)
 가, (6) S3가 , (7)
 Di ~ DI .

(5i ~ 5l) (6) S2가 .
 (5i) TCi가, (5j) TCj가,
 (5k) TCk가, (5l) Di가, (6) Dj가,
 , (5i) (5j) DI ,
 (5k) Dk가, (5l) DI ,
 (7) .

2 $D_i \sim DI,$ $TC_i \sim TCI,$ S_2 S_1
 1 2 (7) $D_i \sim DI,$ $TC_i \sim TCI,$ 1
 (6) $가$ $(subfield)$
 (1)
 $(階調)$ 1 $가$ (1)
 (4) (6) S_1
 (2) $가$ (7) (6)
 S_3 $D_i \sim DI$
 $(5i \sim 5l)$ (6) $TC_i \sim TCI$ T
 $C_i \sim TCI$ (7) $Di \sim DI$
 $(5i \sim 5l)$ (6)
 S_2 (3) $Di \sim DI$
 $가$
 (4) $가$ (2)
 $(5i \sim 5l)$ (3) $(wall\ charge)가$
 (2) (3)
 (6) $가$ S_1 (2) $가$ (4)
 (2)
 1 (7) $Di \sim DI$
 $(5i \sim 5l)$ $TC_i \sim TCI$
 $가$ $1/4$
 $가$
 (3) 4 2
 1 $가$
 (2)
 3 2 $가$ (3) 4 1
 (3) $(5i)$ j i (3)

(5j) , k (3) (5k) , l

(5i) (5k) 1
(6) TCik가 (5j) TCjl
(5l) 2 (6)

4 Di ~ DI, TCik, TCjl, S2 S1
4 Di, Dk (7)
, Dj, DI (7)
Di, Dk (7) TCjl
Di, Dk (7) TCik TCjl
180°

2 , 1, 2 1
가

1 2 , 4 (5i ~ 5l)
(5i, 5k) 2 (5j, 5l)
, Di ~ DI , 1 가
4 Di ~ DI (7)
2 (7)
(5i ~ 5l) 1 ,

(3) 4 (5i ~ 5l) 2
(5i ~ 5l) 가 2 (m - 1) , 가 3 m
(3) 2 가

(3)

5 1 (7) 5 , (7)
7) 16 (3) , 1 (2) 64 , i ~ l
, 8 1 (8)

(8) , 64 (3) 64 (9ia ~ 9la, 9ib ~
9lb)가 (9ia, 9ib) i (3) , (9ja, 9jb)
j (3) , (9ka, 9kb) k (3)
, (9la, 9lb) l (3)

(9ia ~ 9la, 9ib ~ 9lb) (10)가 (切換; selector) (11i)
 (9ia, 9ib) 16 (10) , (11j)
 (9ja, 9jb) 16 (10) ,
 (11k) (9ka, 9kb) 16 (10) ,
 (11l) (9la, 9lb) 16 (10) .

(11i) D (DFF) (12i) (11j) 2 DFF(12ja,
 12jb)가 (11k) 3 DFF(12ka ~ 12kc)가 ,
 (11l) 4 DFF(12la, 12ld)가 .

(7)
 (8) (8) (1)
 , (9ia ~ 9la, 9ib ~ 9lb) , (9ia ~ 9la, 9ib ~ 9lb)
 . (9ia ~ 9la, 9ib ~ 9lb) 가 , (9ia ~ 9la, 9ib ~ 9lb)

(10) (11i) SC 4 (分周) DC , (9ia)
 (9ib) (10) (11i)
 Dii DFF(12i) , DFF(12i) SC 1 Dii
 Di .

(11j) DC (9ja) (10) (9jb)
 (10) (11j) Djj DFF(12ja)
 , DFF(12ja) SC 1 Djj DFF(12jb) . DFF(12j)
 b) DFF(12ja) SC 1 Dj .

(11k) DC , (9ka) (10) (9
 kb) (10) (11k) Dkk DFF(12ka)
 , DFF(12ka) SC 1 DFF(12kb)
 DFF(12kb) DFF(12ka) SC 1 DFF(12kc)
 . DFF(12kc) DFF(12kb) SC 1 Dk

(11l) DC (9la) (10) (9lb)
 (10) (11l) DII DFF(12la)
 , DFF(12la) SC 1 DII DFF(12lb) . DFF(12l
 b) DFF(12la) SC 1 DFF(12lc)
 . DFF(12lc) DFF(12lb) SC 1 DFF(12ld)
 . DFF(12ld) DFF(12lc) SC 1 DI

, 4 Dj, Dk, DI Djj, Dkk, DII SC 2 , 3
 , 4 Di ~ DI SC 1
 6 1 (7) 6 , 5
 DFF(13i ~ 13l) X Di ~ DI DFF(13i ~ 13l) DFF(13i ~ 13l) DCi ~ DCI
 7 SC DCi ~ DCI DCi ~ DCI
 SC 1 SC DCi ~ DCI 8 9
 8 , 20 SC 4 4 , 21a ~ 21c DFF . 4 (20)
 DFF(21a ~ 21c) SC , 9 , 22 2 2
 , 23a ~ 23d DFF . 2 2 (22) DFF(23a ~ 23d) SC
 3 DFF
 (7) Di ~ DI
 , 5 , (11i) DFF (11k) DFF
 , (11j) DFF (11l) DFF , ,
 (11i, 11k) DFF (11j, 11l) DFF , ,
 5 2 (7)
 , 6, 7 , DCi, Dck , DCj, DCI , ,
 DCi, Dck DCj, DCI , 6 가 2
 (7)
 (4)
 10 4 (2)
 i j (3) , (1) (2L) ,
 k l (3) (1) (2R)
 . (2L) (4L) , (2R) (4R)
 .
 (4L, 4R) (6) , (4L)
 S1L , (4R) S1R , (6)
 (5i, 5j) S2L , (5k, 5l)
 S2R , (6) 4
 1 1 가 .
 11 4 . 11 ,

(1) TL TR ,
(hatching) ,
(6) 11 , (1)
S1L, S1
R .

12 11 M M ,
(1) Di ~ DI , TCi ~ TCI . 1 가 ,
13 11 N N , (1)
1) , (1) Di, Dj TCi, TCj , 13
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(1) , 가 ,
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, 3 2
4
, (1) 2 ,
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1 , 가
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, 2 , m
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, 4 , ,
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, 6 ,
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(57)

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1 ,

1 2

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1 2

1 2

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2.

1 ,

$m(m^2)$,

m ,

m $n(n^2 - m - 1)$,

1

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3.

1 1 1 ,

2 1 2 ,

1 2 1 2

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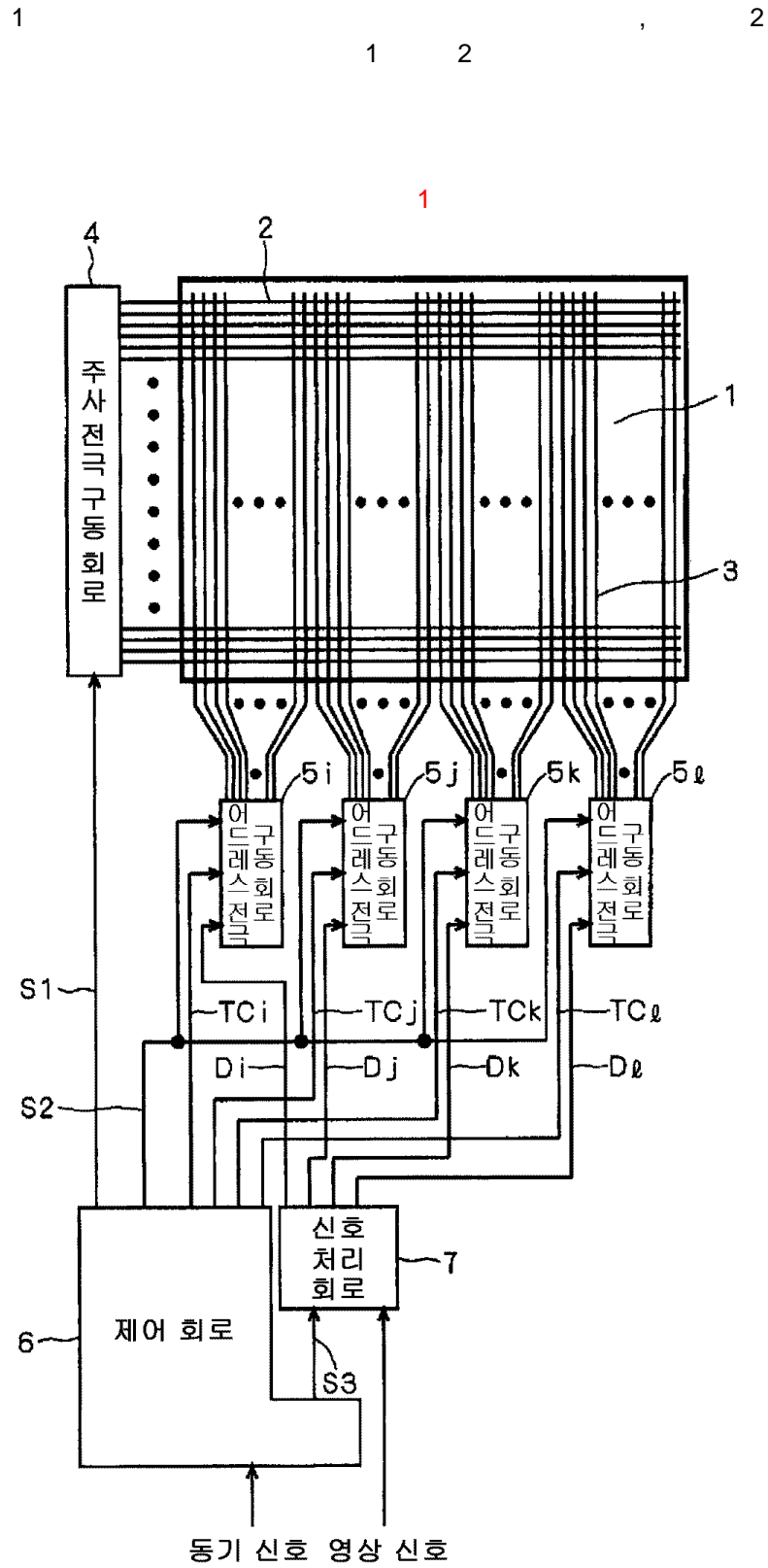
1 1 ,

2 2 ,

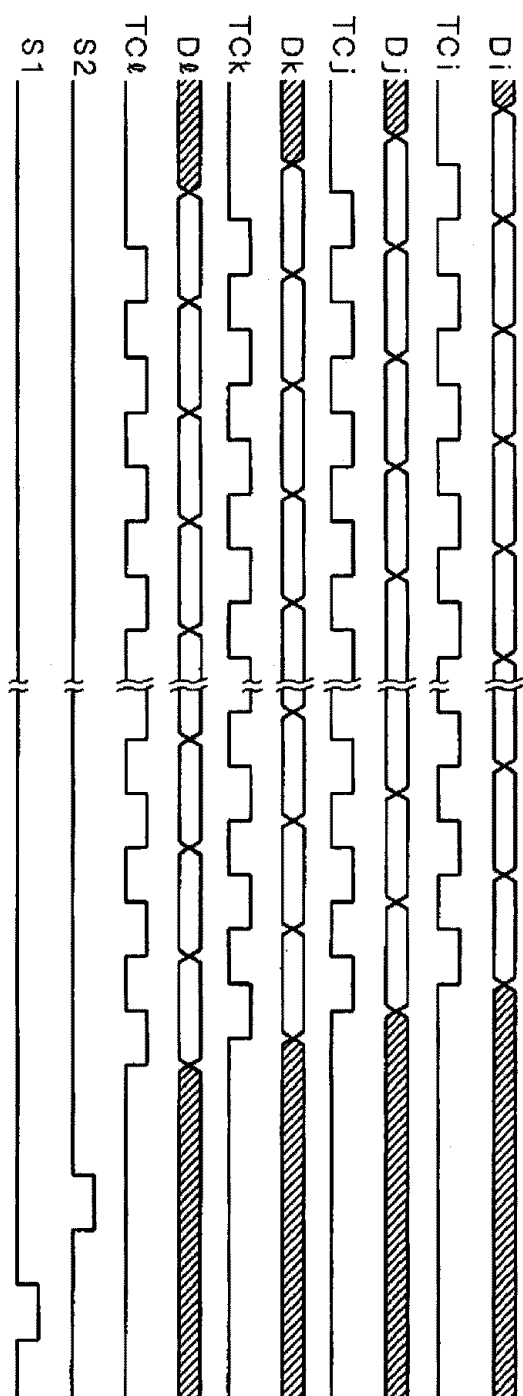
1 2 ,

1 ,

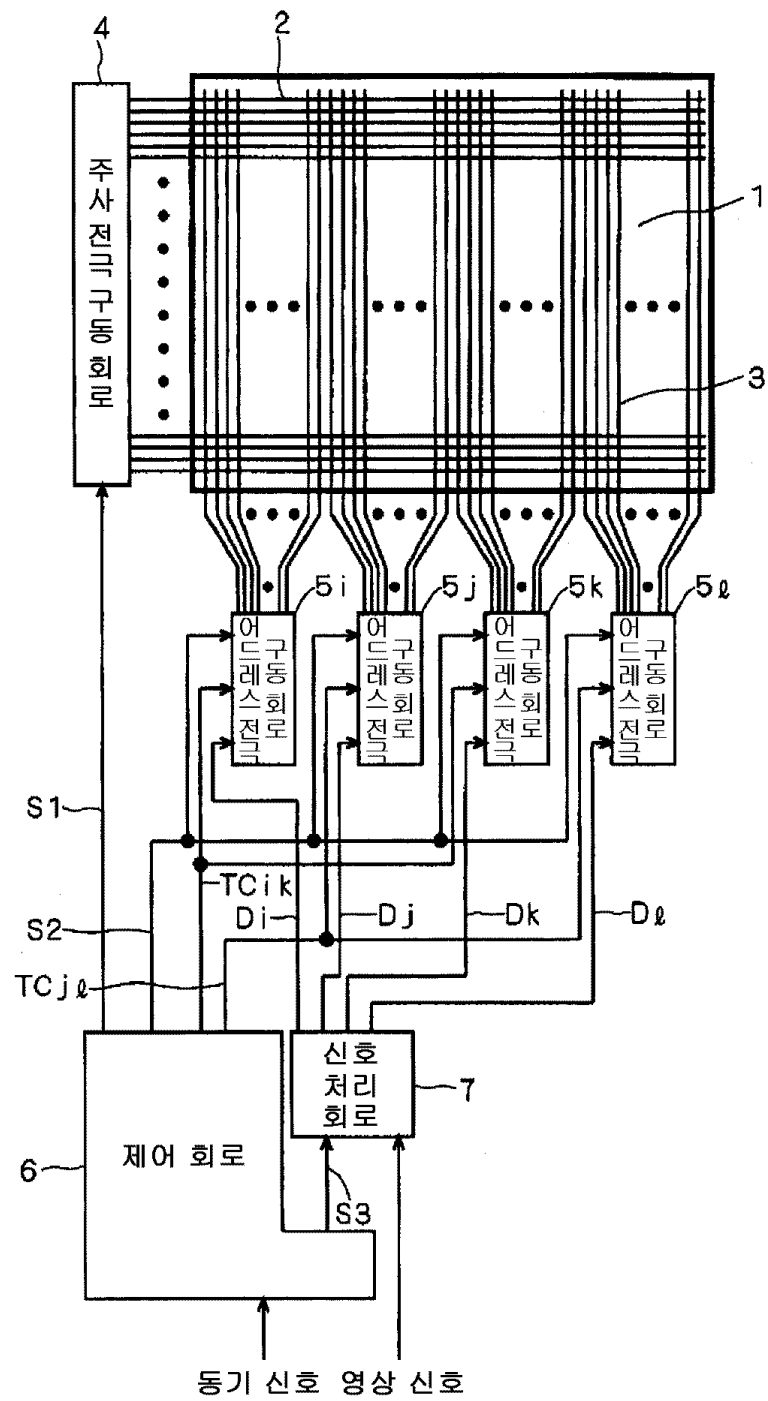
,



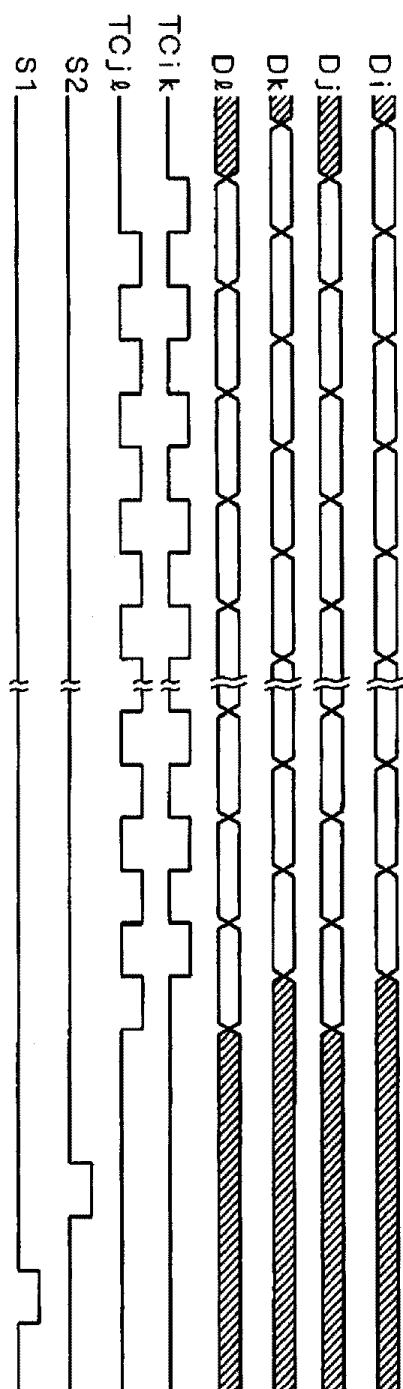
2



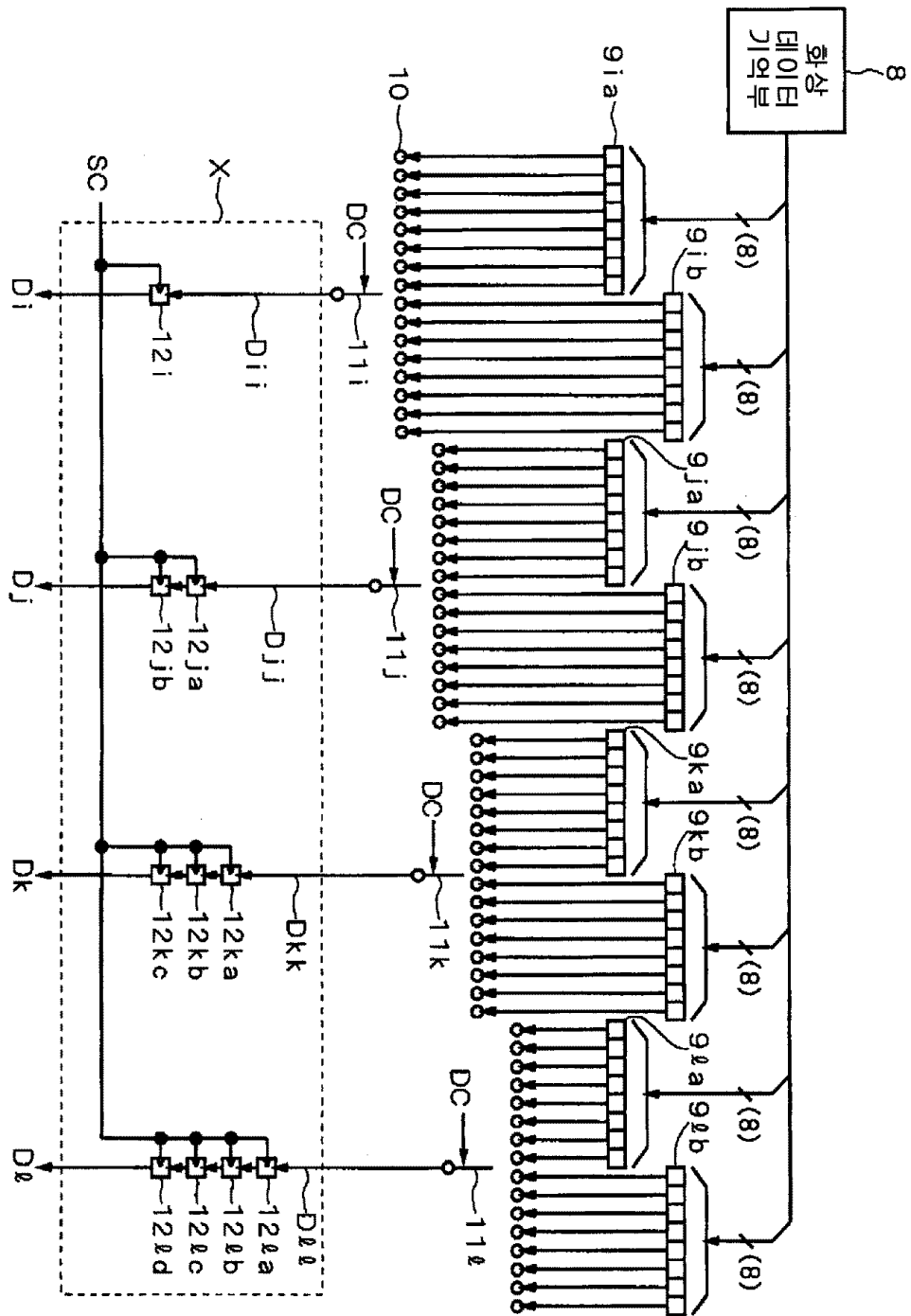
3



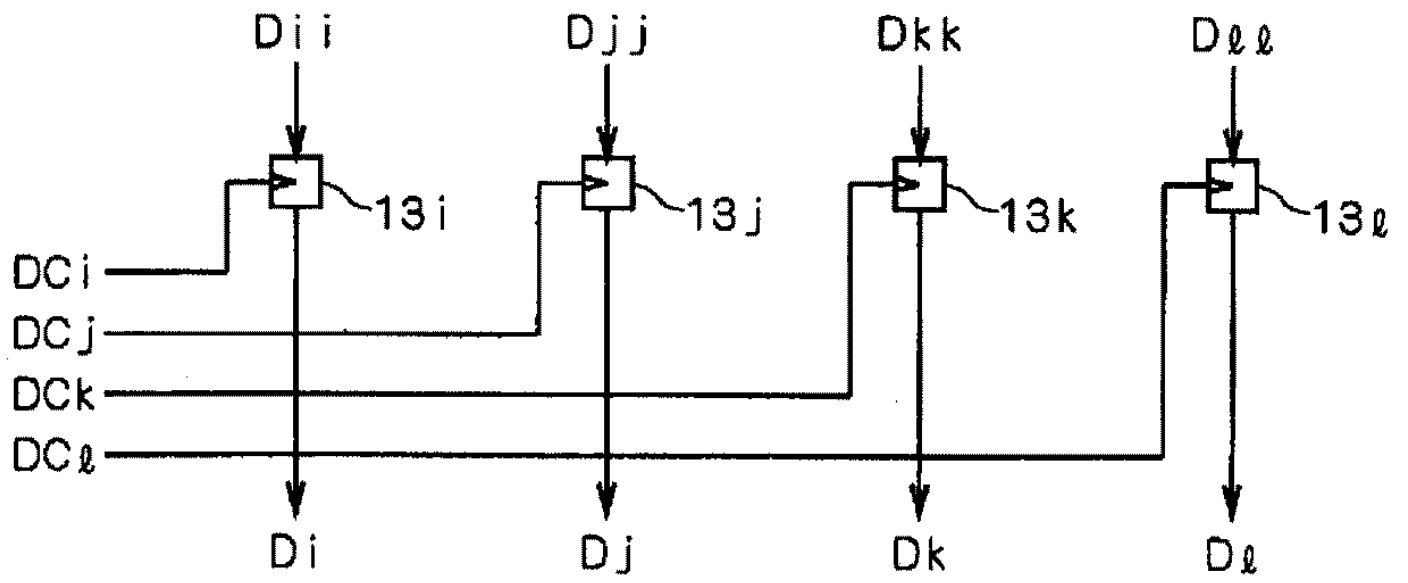
4



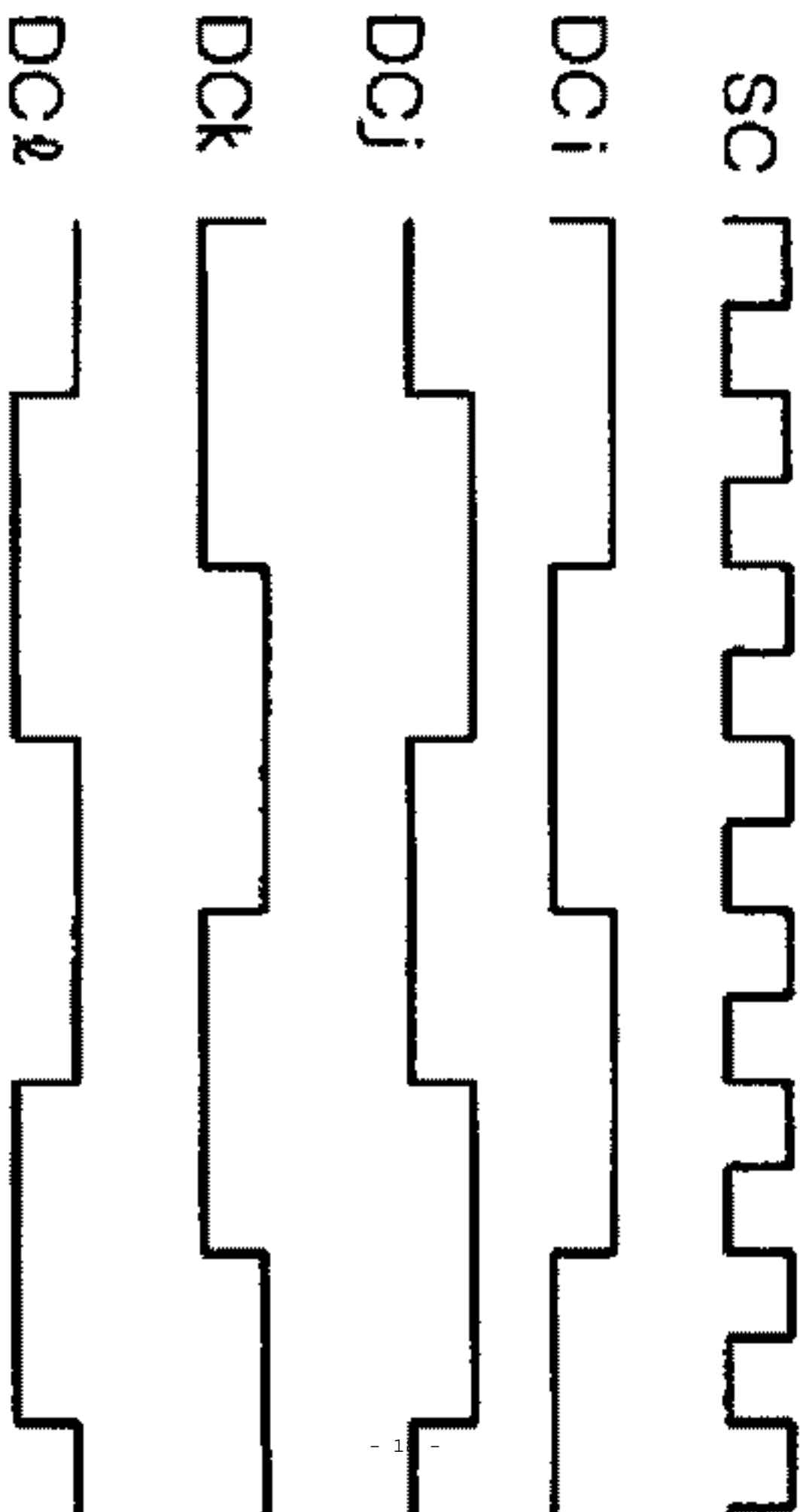
5



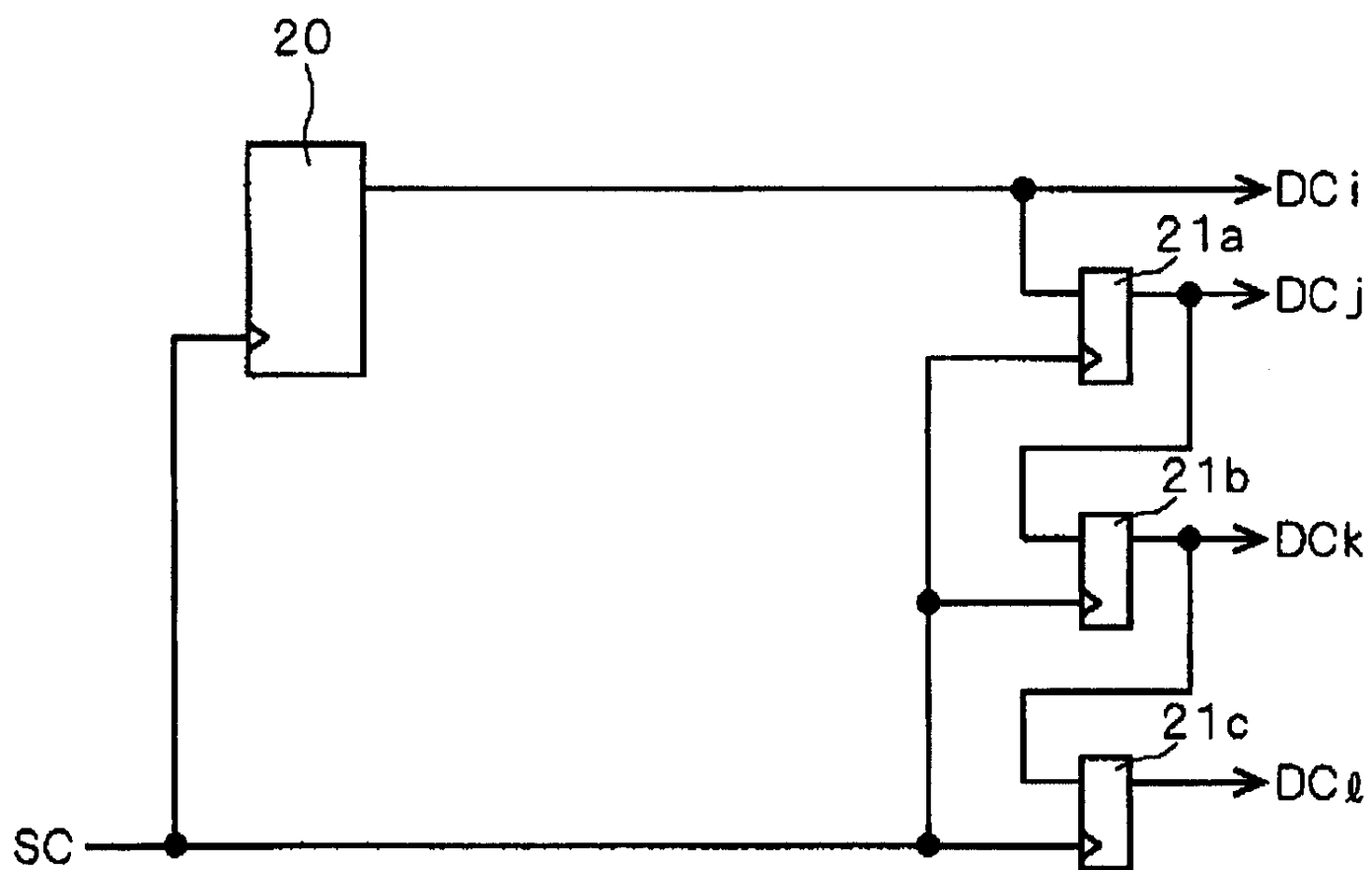
6



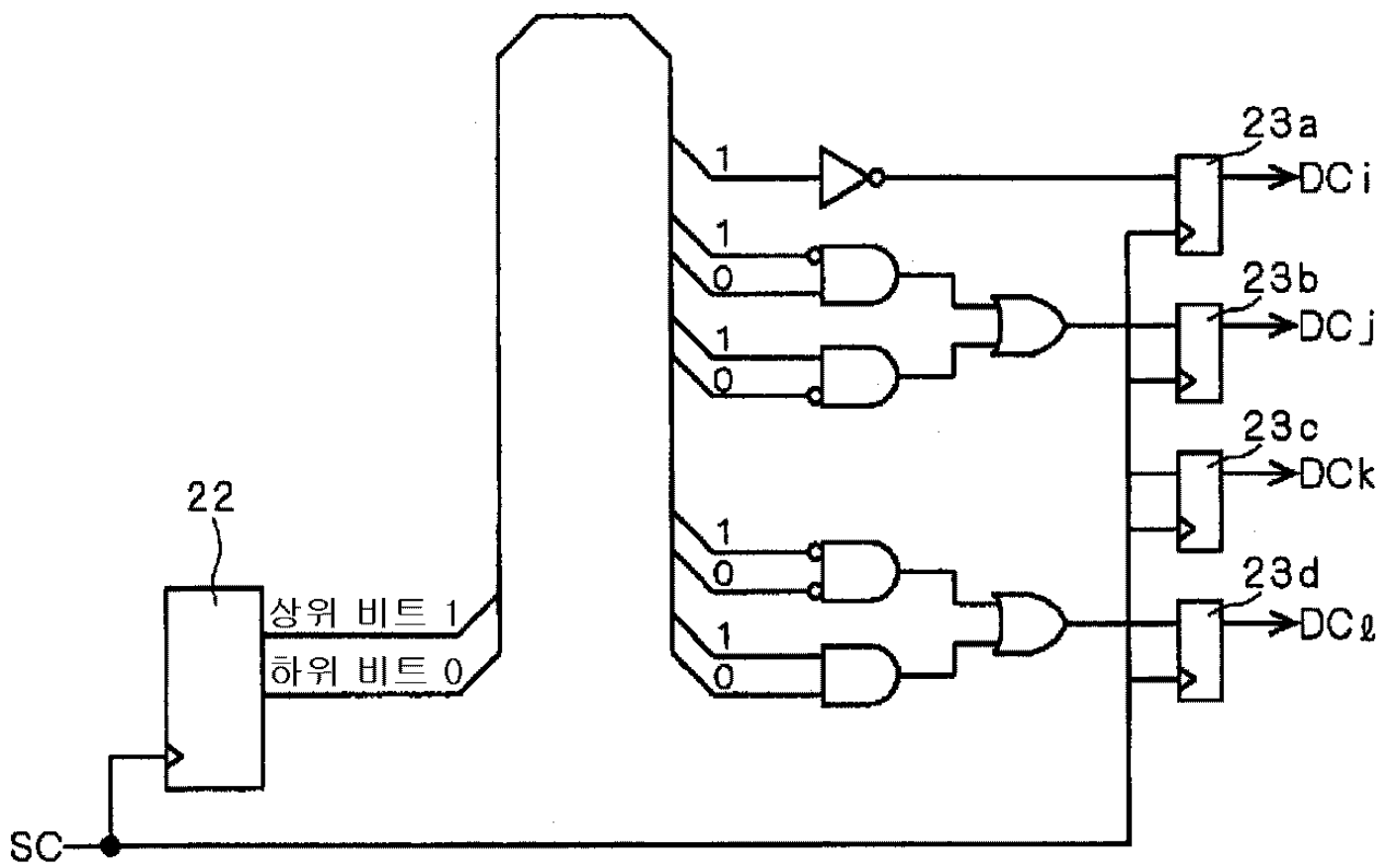
7



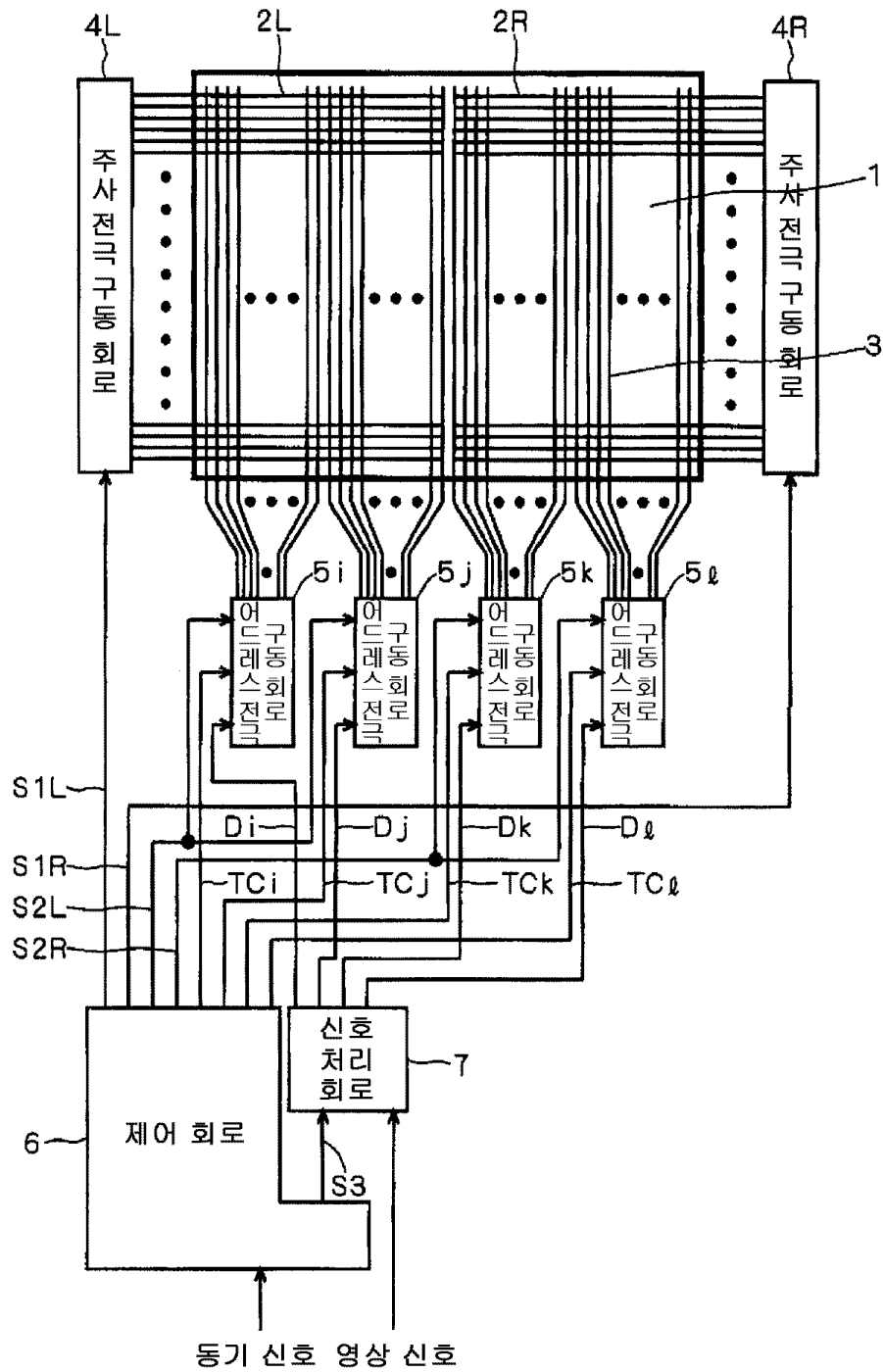
8



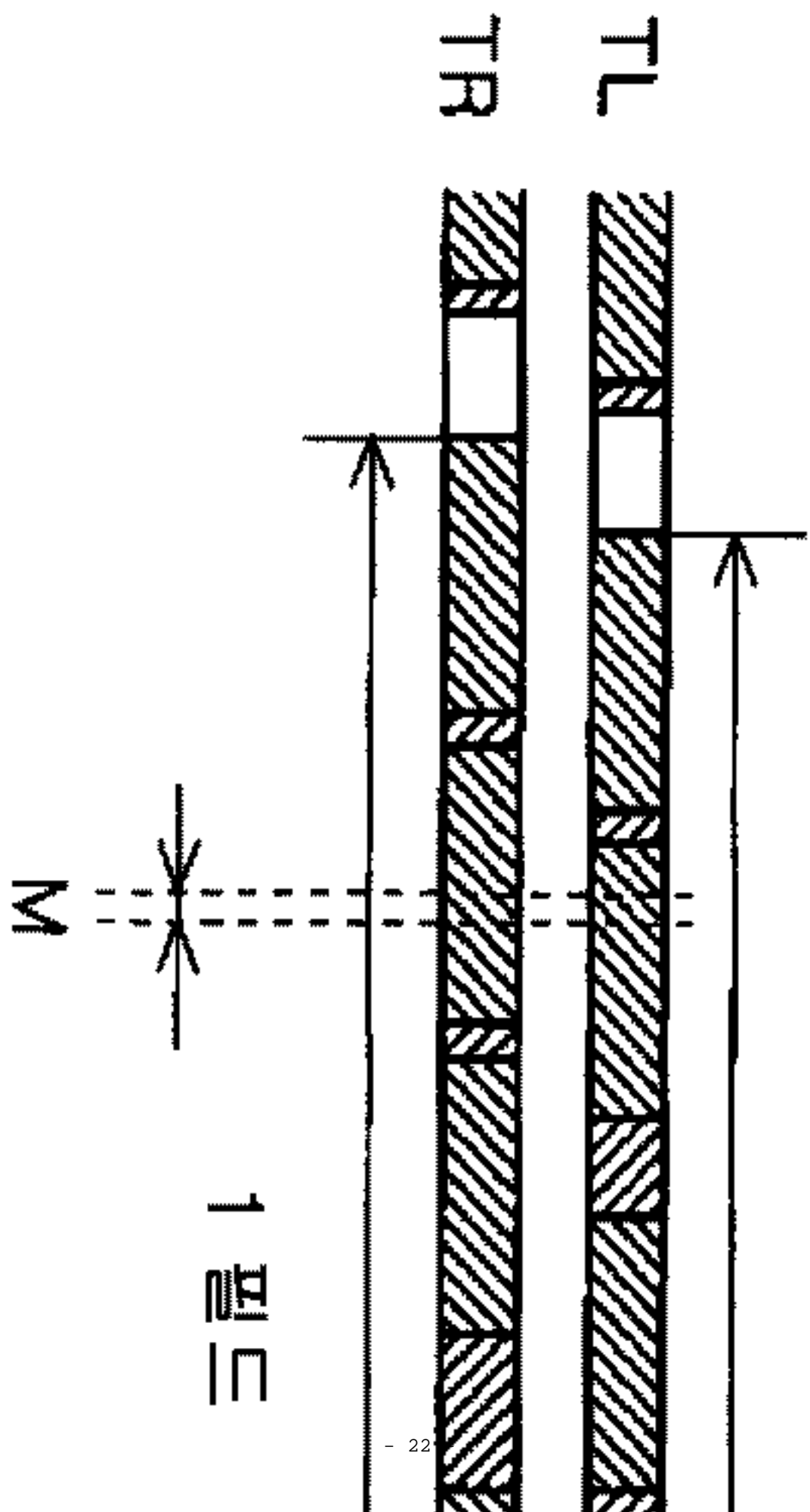
9



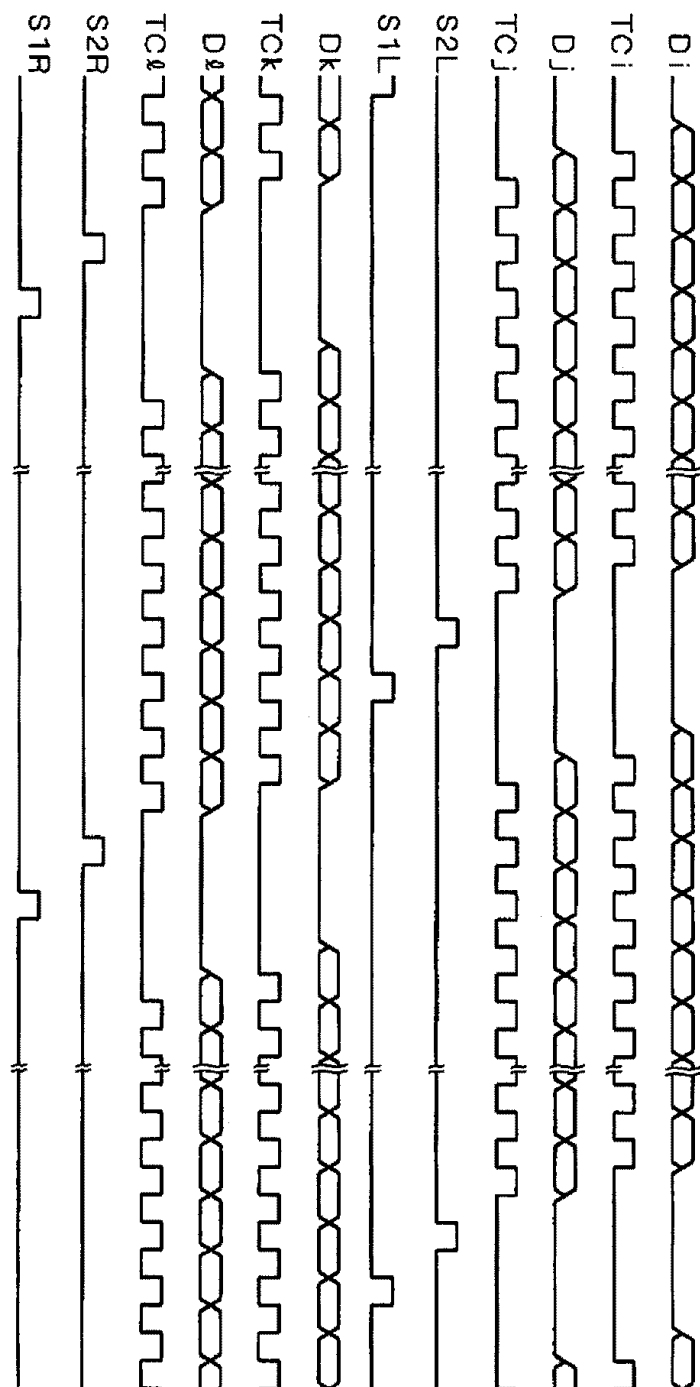
10



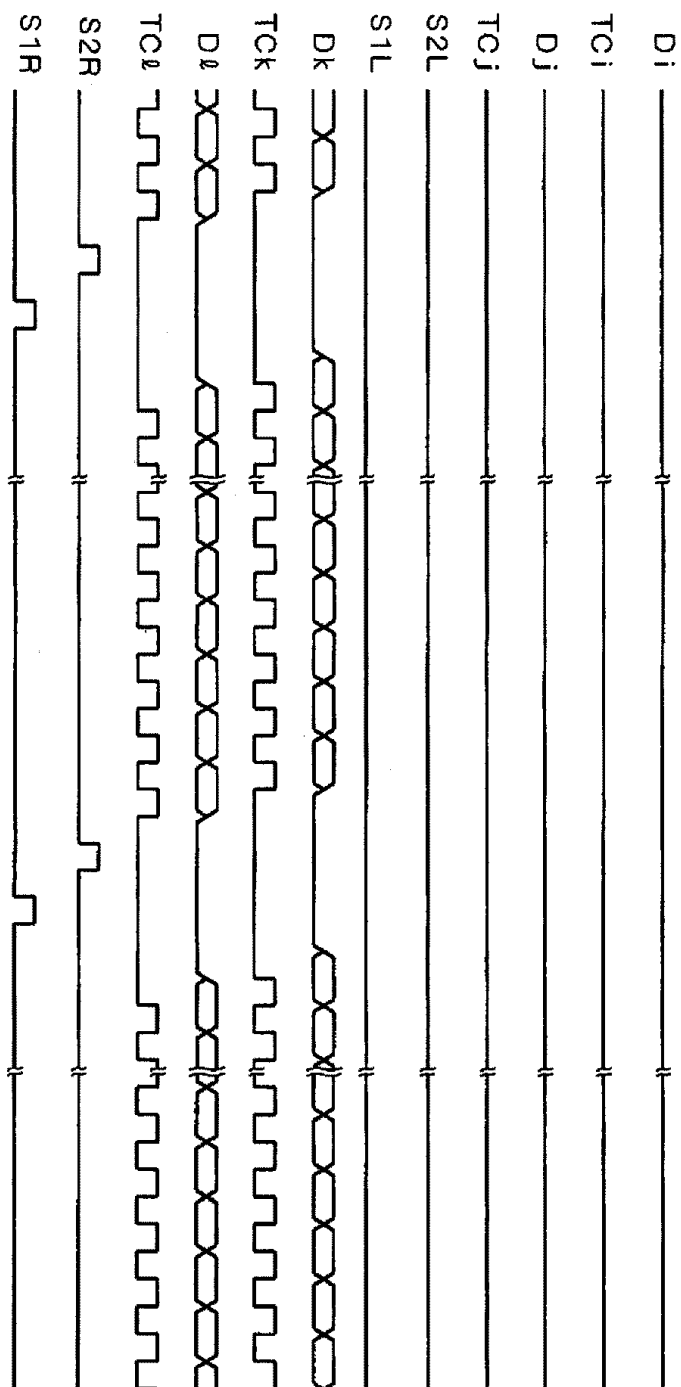
11



12



13



14

