

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

(51) 。 Int. Cl. 7  
 G09G 3/288 (11) 2002 - 0002250  
 (43) 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)

---

(54)

---

, 가 . i (3) (5j) , k (3) (5i) ,  
 j (5k) , l (3) (3) (5j) , k (3) (5i) ,  
 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' )

$$\begin{array}{ccccccccc} , & & & & & & . & 14 \\ & ( & 2894039 & ) . & (101) & 1 \\ (102) , & (102) & & ( & ) , & (102) \\ 1 & & 2 & & & & (103) \end{array}$$

$$\begin{array}{ccccccccc}
 & (102) & & (104) & & . & & (103) & (101) \\
 4 & & & (左端) 1/4 & & . & & i & \\
 (103) & & (105i) & & . & & 1/4 & & j \\
 & (103) & & (105j) & & . & & (105k) & 1/4 \\
 k & & (103) & & . & & (103) & & \\
 (\text{右端}) 1/4 & & l & & . & & (103) & & (105l)
 \end{array}$$

$$(104) \quad (105i \sim 105l) \quad (106) \quad . \quad , \\ (105i \sim 105l) \quad (107) \quad . \quad (105i \sim 105l) \\ ( \quad ) \quad . \quad (107) \quad (106)$$

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

$D_i \sim D_l$ ,  $(105i \sim 105l)$ ,  $(106)$ ,  $(105i \sim 105l)$ ,  $S2$ ,  $(107)$ ,  $TC가$

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

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



, 6 1 1 1 1 1  
 , 2 1 2 2 2 2  
 1 1 , 2 , 1 , 1  
 2 2 , , 1 , , 1  
 , , , , , ,  
 2 1 2

( 1 )  
 1 1 (2) , (2) 2 ( ) . (1) 1  
 (2) . (2) (1) (4) .  
 (1) (3) 1/4 (1) (1) (3) 1/4 i 4 ) ,  
 3) j 1/4 (5i) , (1) (3) k (5j) , (1)  
 1/4 (5k) . (1) 1/4 (5l) , (3) l

(5i ~ 5l) (4) (7) (5i ~ 5l) (6) (5i ~ 5l) .  
 ) . . . . . ( )

(6) 가 , (6) (6) S1,  
 S2, TCI ~ TCI S3 가 , (7) (7)  
 가 , (6) S3 가 , , (7) (7)  
 Di ~ DI . .

(5i) (5i ~ 5l) (6) S2 가  
 (5k) TCI 가 , (5i) (5i) Di 가 , TCI , (5j) TCI 가 , (6)  
 , TCI 가 , (5k) Dk 가 , (5l) (5j) Dj 가 ,  
 (7) . . . . . . . .



(5j), k (3)	(3) (5l)	(5k) 1 TCik 가	(5k) 1 TCik, TCjl, Di, Dk TCik Dj, DI 180°	S2 Di, Dk (7) TCik TCjl	S1 (7) TCjl
4	Di ~ DI, 4 , Dj, DI Di, Dk TCik Dj, DI 180°	TCik, TCjl, Di, Dk TCik Dj, DI 180°	TCik, TCjl, Di, Dk TCik Dj, DI 180°	S2 Di, Dk (7) TCik TCjl	S1 (7) TCjl
2	, 2 , 가	, 4 (5i, 5k) 2	, 4 (5i, 5k) 2	1, 2 1 (7)	1 (5i ~ 5l) (5j, 5l)
1	, 4 , 2 , 1 (5i ~ 5l)	Di ~ DI Di ~ DI 2 1 1 (5i ~ 5l)	Di ~ DI Di ~ DI 2 1 1 (5i ~ 5l)	1 (7)	1 가 (7)
3)	, 5 1 16 , 8 , 8 , j , j (9la, 9lb)	(3) 4 ,	(3) 4 ,	가 3 2 m ,	(5i ~ 5l) 2 가 m ,
)	(7) (3)	, 1 1	(2) 64 64 (3) i (9ia, 9ib) (3) j (9la, 9lb)	, 5 , 5 (8) 64 (3) k (3)	, i ~ l (9ia ~ 9la, 9ib ~ (9ja, 9jb) (3)

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

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

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

(10)	(11i)	SC 4	(分周)	DC	.	(9ia)	,
		(9ib)	(10)		.	(11i)	
	Dii	DFF(12i)	, DFF(12i)	SC 1	.	Dii	
	Di	.	.		.		.
b)	(11j)	DC	.	(9ja)	(10)	(9jb)	,
	(10)	.	.	(11j)	Djj	DFF(12ja)	
	, DFF(12ja)	.	SC 1	SC 1	DFF(12jb)	.	DFF(12j)
	DFF(12ja)	.				.	.

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

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

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

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

12 11 M M , 1 가 ,  
 (1) Di ~ Di TCi ~ TCI  
 13 11 N N , 13  
 1) , (1) Di, Dj TCi, TCj

, 4 (1) , ,  
 , 1 , 2 , ,  
 4 , , , 2 , ,  
 , , , , ,  
 1 , , , , ,  
 , 2 , m , ,  
 , , , , ,  
 , 3 , , , ,  
 , , , , ,  
 , 4 , , , ,  
 , , , , ,  
 , 5 , , , ,  
 , , , , ,  
 , 6 , , , ,  
 (57)

1.

1

,

1

2

,

,

,

,

,

1

2

,

2.

1

,

 $m(m - 2 \dots)$ 

,

m

,

m

 $n(n - 2 \dots m - 1 \dots)$ 

,

1

,

.

3.

1

1

1

,

2

1

2

,

1 2

1 2

,

1

1

,

2

2

,

1 2

,

1

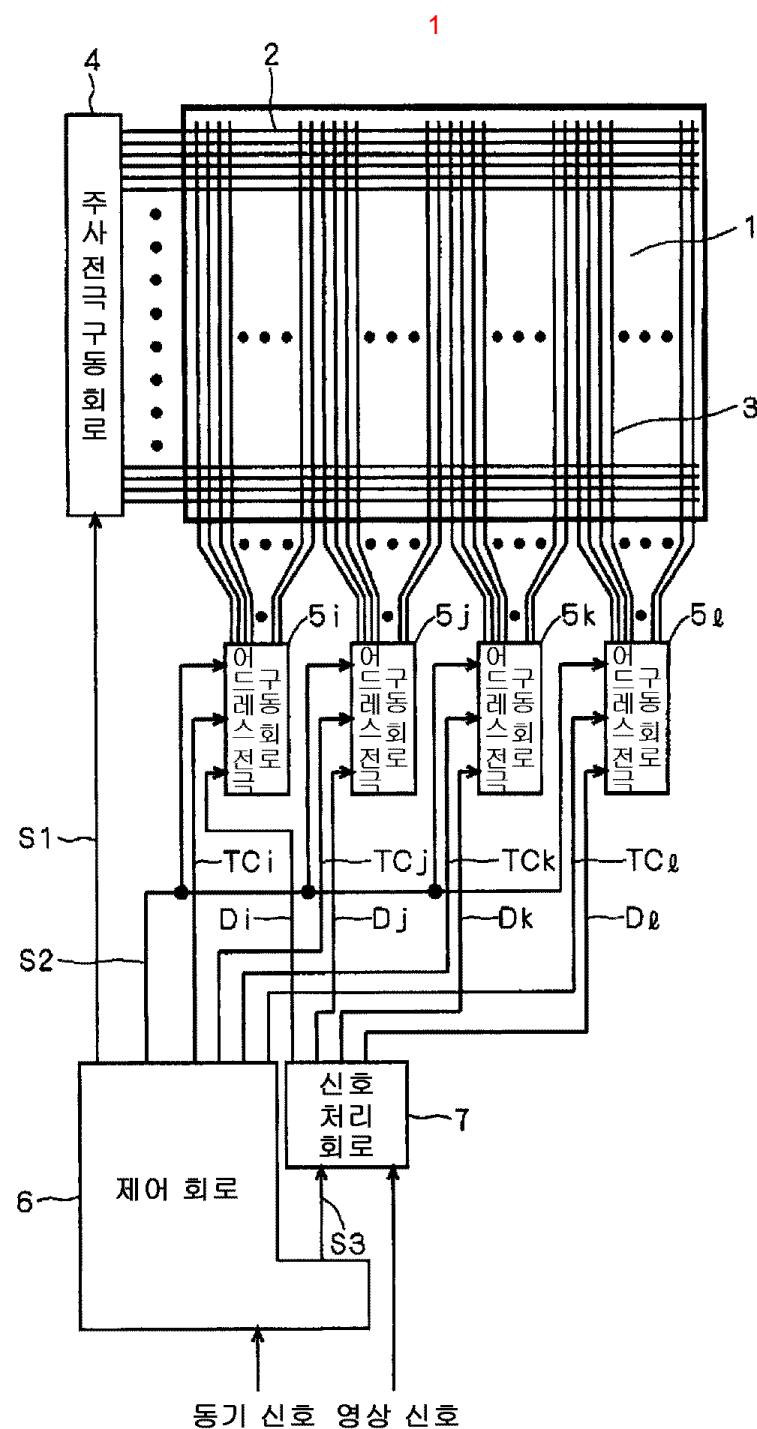
,

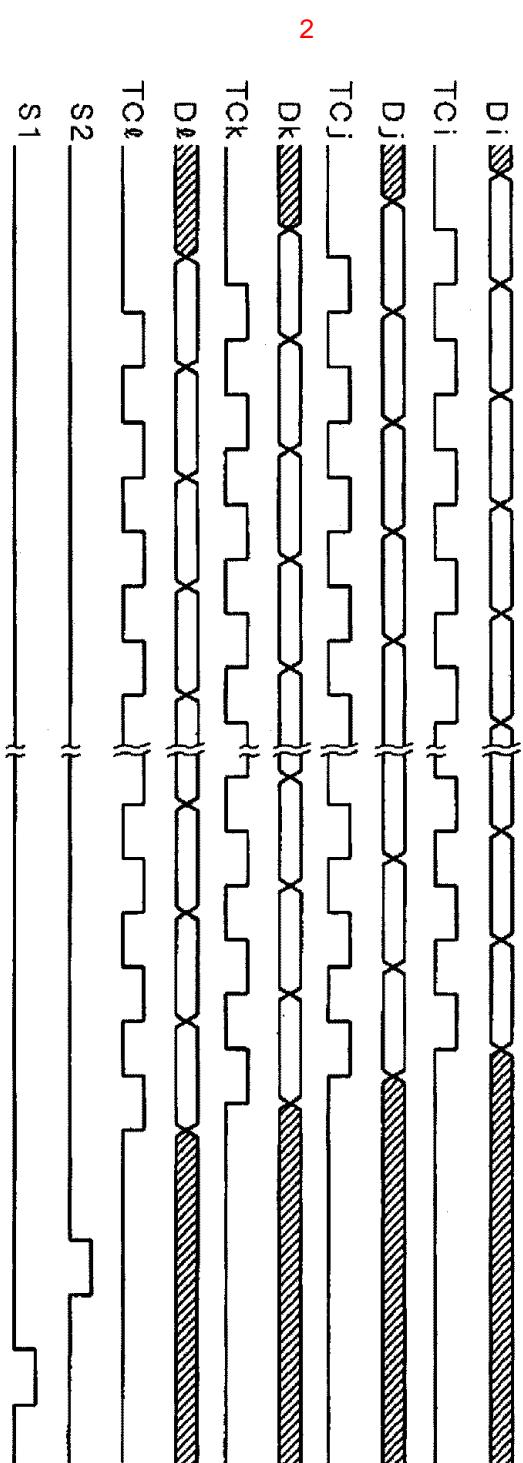
,

,

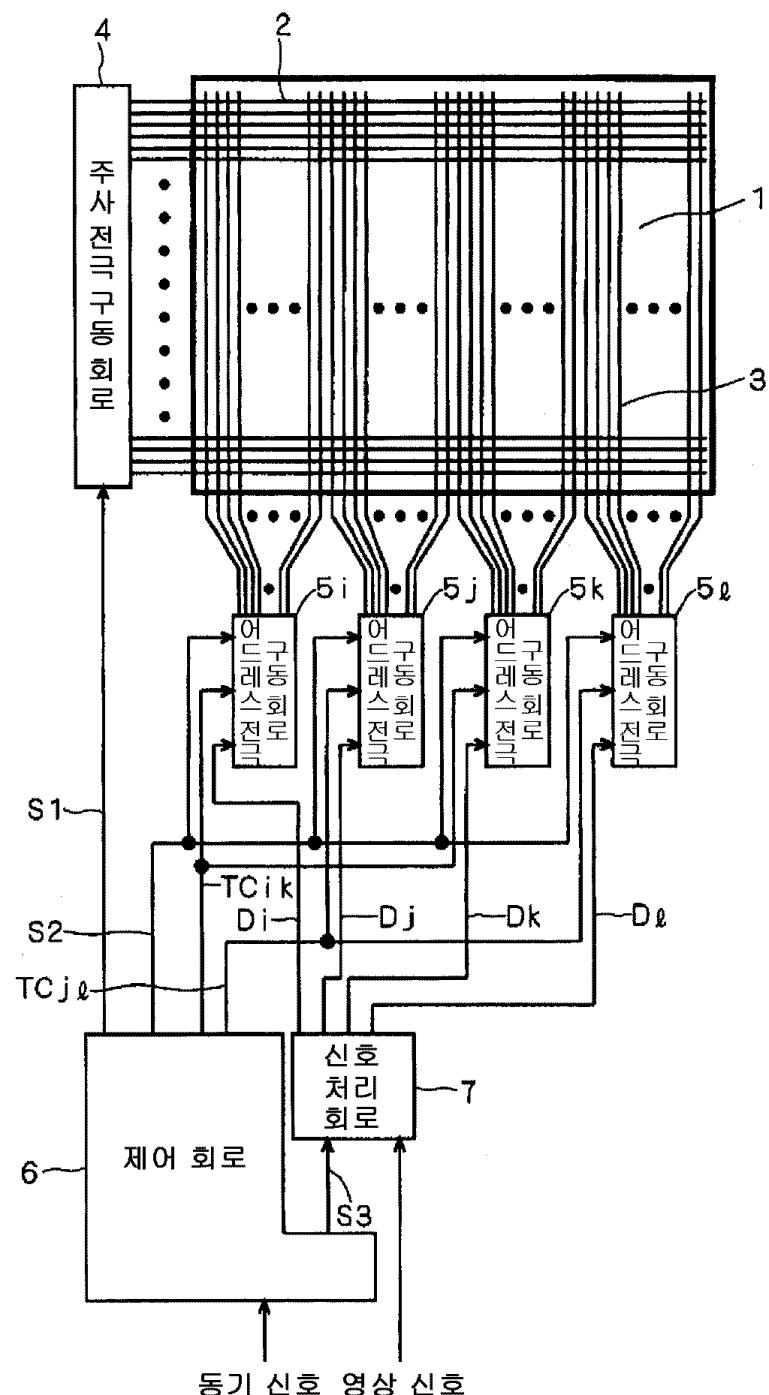
1                    ,                    2

1                    2

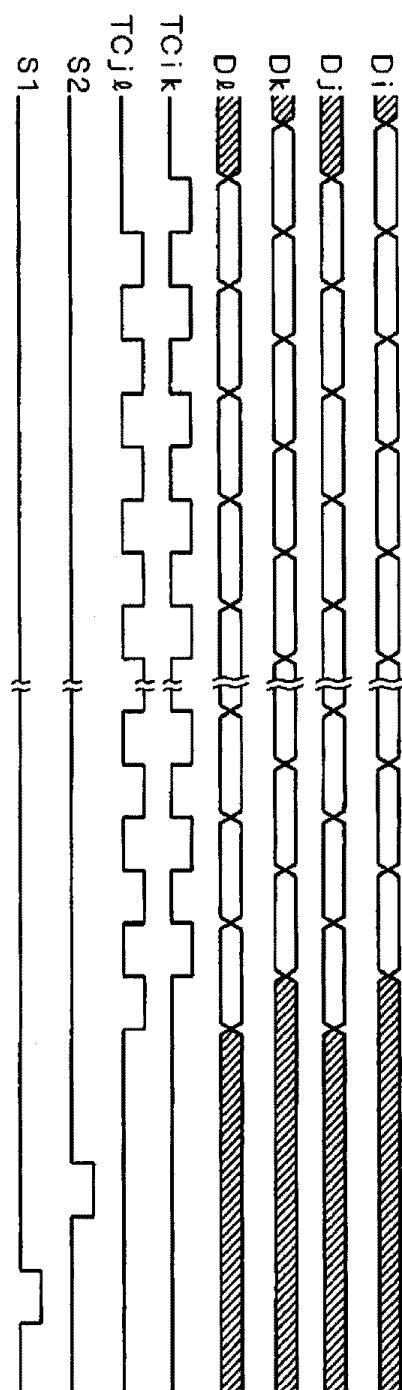




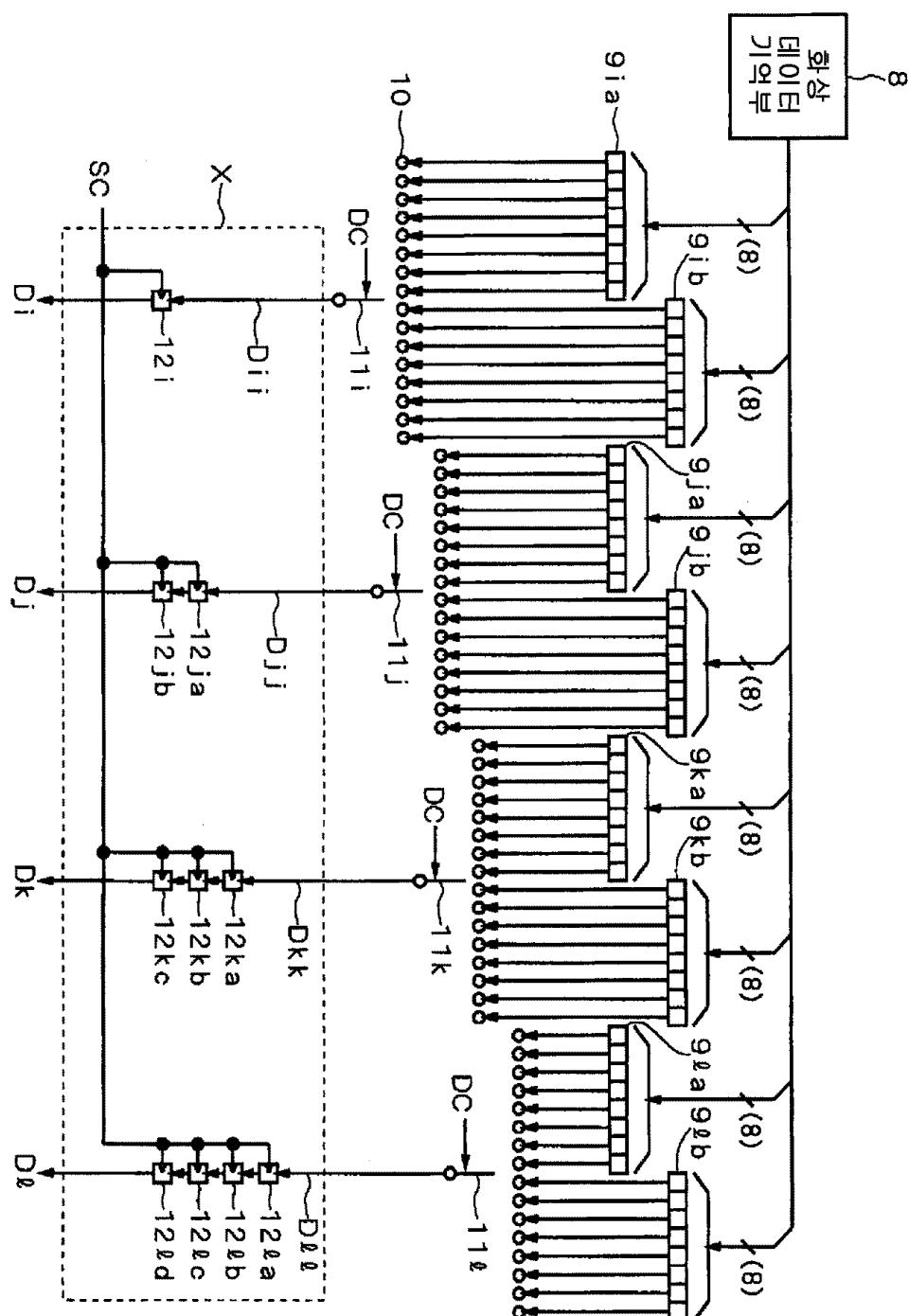
3



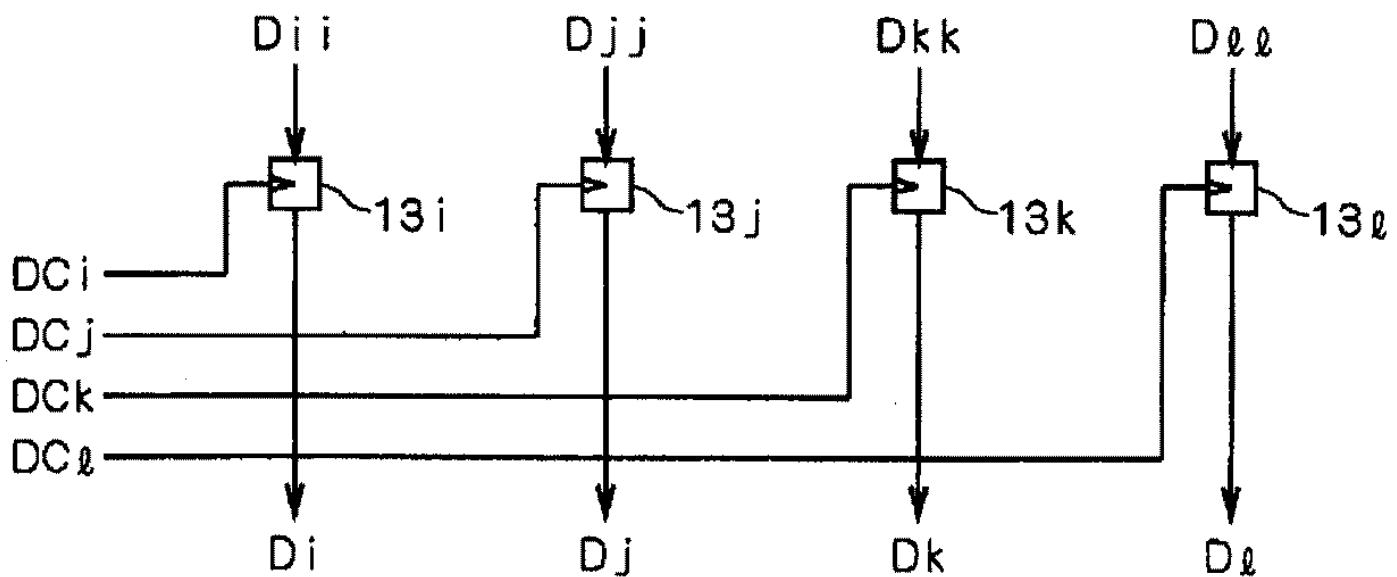
4



5



6



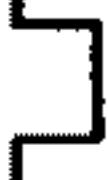
7

DC<sub>2</sub>

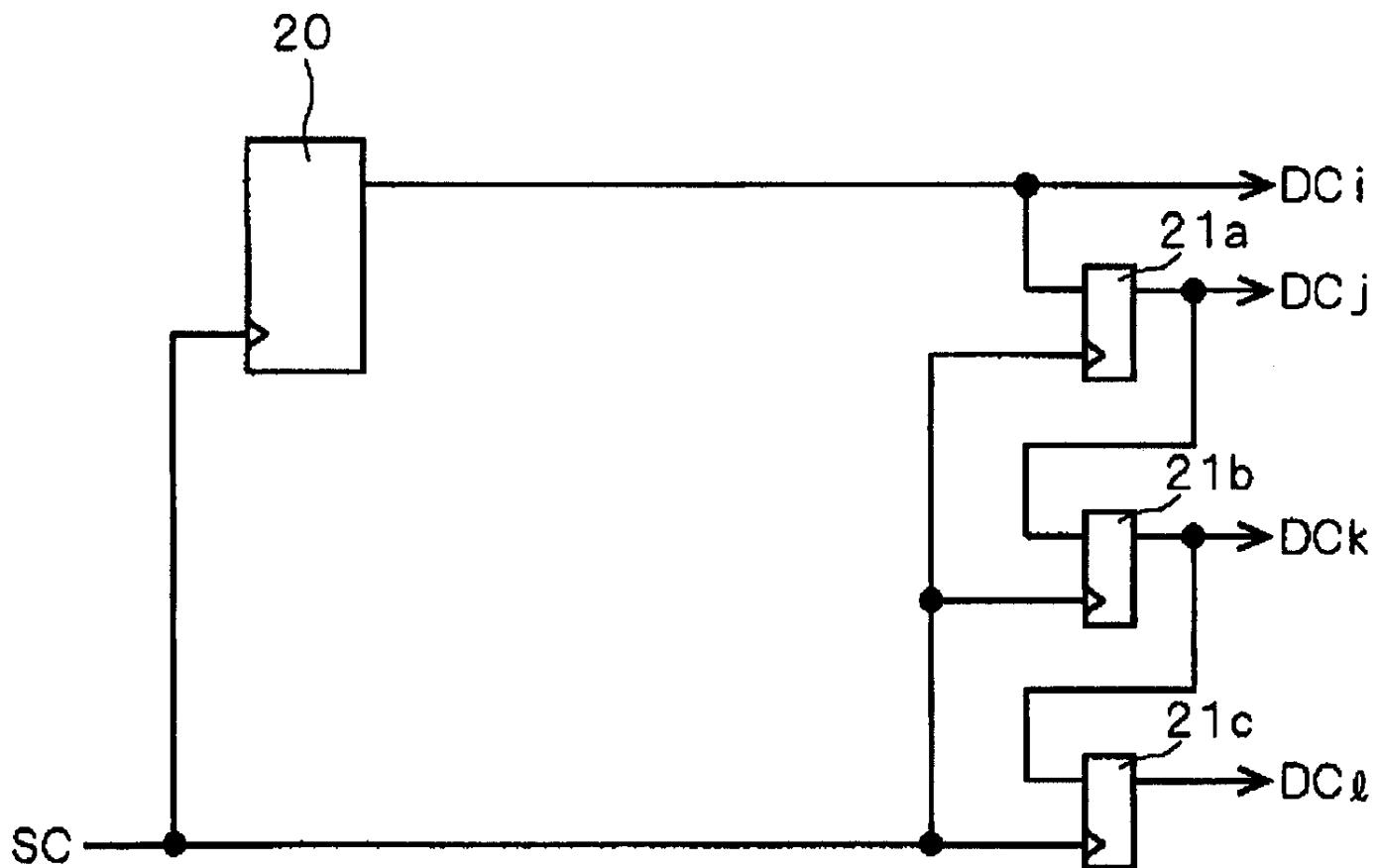
DCK

DC<sub>j</sub>DC<sub>i</sub>

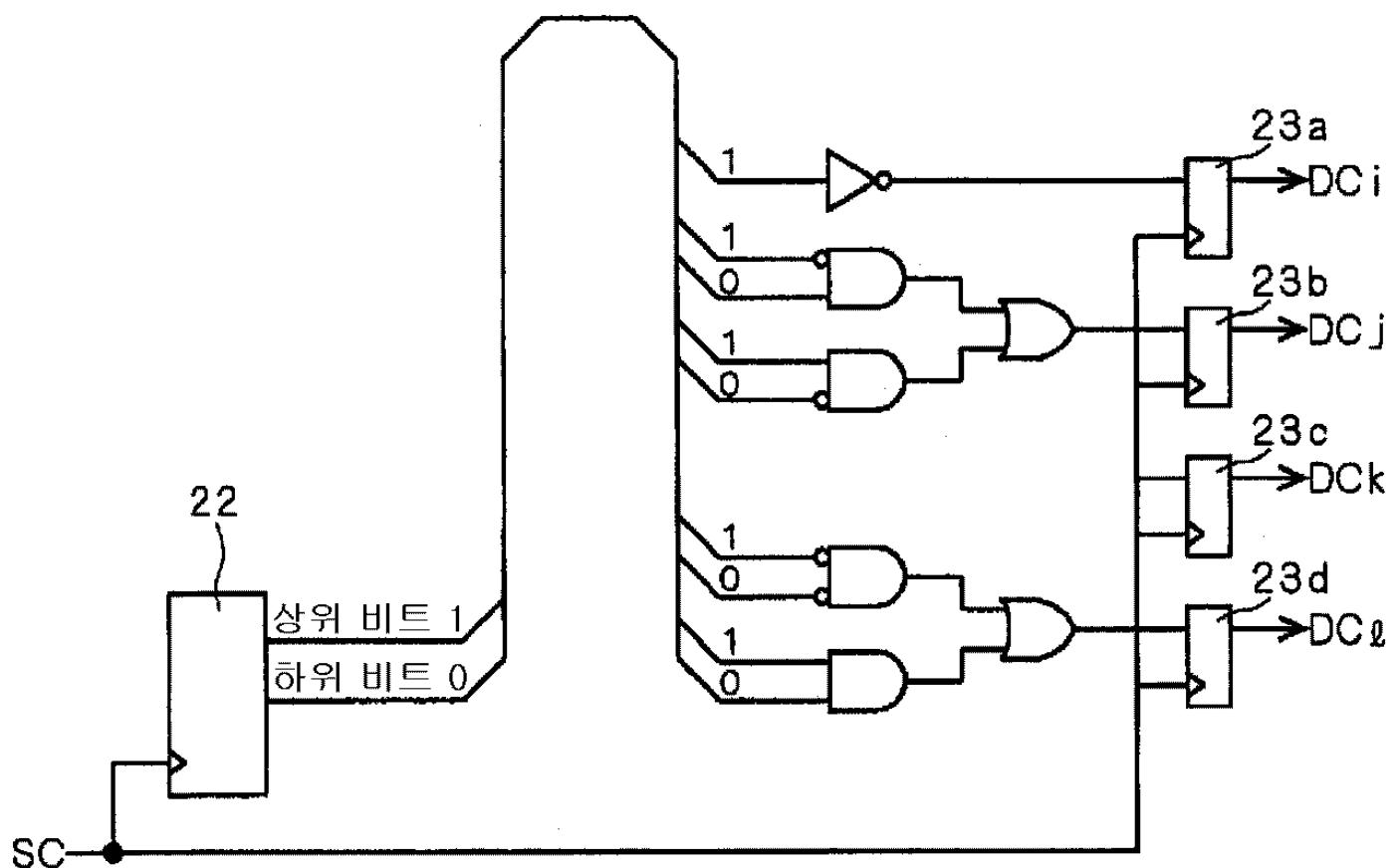
SC



8



9



10

