

(19) (KR)
(12) (B1)

(21) 10-2001-0052477 (65) 10-2002-0018114
(22) 2001 08 29 (43) 2002 03 07

(30) JP-P-2000-00259984 2000 08 29 (JP)

(73) 575

가 5 3 1 가 가

가

한국어

한국어

5 7 1 가 가

(74)

(54)

가 EL , , EL 가
가 EL , , EL 가

1 1 EL ;
2 1 ;
3 1 ;
4 1 ;
5 2 EL ;
6 2 ;
7 2 ;
8 EL 가 ;
9 EL ;
10 EL ;
11 EL 가 - ;
12 EL 가 - .

1: EL
3:
10:
11:
14:
23, 24:
42:

, LED(Light Emitting Diode), VFD(Vacuum Fluorescent Display; , VFD , EL(Electroluminescence) FED(Field Emission Di

(23)	(21)	22)		Q1	(	4	(1)	)	,	가	(21)	22)	P_H 가
가	I_D	'0(	)'	(4)	(4)	4	(3)	EL	).	I_EL 가	V_D	(4)	EL (5).
,	, P_H 가	(21)	22)	, Q3	S_SW 가	Q11가	, (23)	Q1	Q3	Q4가 ON	, S_SW 가	4	(2) (23) 2
4)	, Q2	Q1	Q11	, I_REF	Q5	Q6	, (23)	Q1	Q3	, S_SW 가	4	1:6 (23) 24)	I_D 가
Q2	(3)	(3)	, EL	EL_G	EL	EL_B	, (3)	Q1	Q3	, , 4	4	(4) (5) Q1	Q
가	가	EL	V_D	I_EL 가	EL	EL_G	EL	EL_B	EL	EL_R	, (3)	4 (5)	E
11	1:10	EL	I_EL 가	EL	EL_R	. EL	EL_R	. EL	EL	, EL_R	EL_G, EL_R	EL_B	,
4	L	(4)	가	EL	EL_R	V_D	. EL	EL_R	. EL	EL	, EL_G, EL_R	EL_B	,
EL	EL	EL_R	EL_G, EL_R	EL_B	EL	EL_B	EL	EL	EL	EL	EL_G, EL_R	EL_B	(24) 가
EL	EL	EL_R	EL_G, EL_R	EL_B	EL	EL_B	EL	EL	EL	EL	EL_G, EL_R	EL_B	(21) 22)
가	가	가	가	가	가	가	(23)	(23)	IC	가	가	가	,
,	(22)	2	(21)	, 2	EL	(1)	(21)	, (21)	IC	, EL	, EL	, EL	,
2	5	, EL	EL	EL	(21)	22)	(21)	, (21)	IC	, EL	, EL	, EL	,
5	EL	S_G,	(31) 32)	S_R	P_H 가	(11)	EL	EL	EL	EL	EL_G, EL_R	EL_B	5 (31) 32)
EL	I_DG,	I_DR	(31) 32)	EL	S_B	(11)	EL	EL	EL	EL	EL_G, EL_R	EL_B	(1)
L_R	(24)	IC	EL	EL_B	I_DB	, EL	EL	EL	EL	EL_G, EL_R	EL_B	EL_E	EL_E
, 5	33, 24, 34, 33, 24, 34, ...	, (31)	(33),	(34)	(33, 24 34)	, (33, 24 34)	(33) 34)	(33)	(33, 24 34)	EL_G, EL_R	EL_B	EL_B	EL_E
,	EL	(1)	EL	EL_B	(31)	EL	EL	EL	EL	EL_G, EL_R	EL_B	(33, 24 34)	,
,	EL	(1)	EL	EL_B	(31)	EL	EL	EL	EL	EL_G, EL_R	EL_B	(33, 24 34)	,
)	(33, 24 34)	IC	EL	EL_B	(31)	EL	EL	EL	EL	EL_G, EL_R	EL_B	(32) 5 (圓點)	,
,	IC	가	EL	EL_B	(1)	EL	EL	EL	EL	EL_G, EL_R	EL_B	(32)	,
(33)	가	(32)	EL	EL_B	(1)	EL	EL	EL	EL	EL_G, EL_R	EL_B	(32)	,

EL , LED, VFD(, VED FED) EL (1) , , 가 . 3
 , .

, , 가 ,

(57)

1.

3		1	1	3		1	2	3
1	가	2	3	1	3	,	1	3
1				,			가	
2	3	1	;				가	
1	3	2	2	,	,	1	,	1
1	가	2		,	2		,	2
.							2	가

2.

1	,	가	-	.
---	---	---	---	---

3.

1	,	2	2	3	가	-
---	---	---	---	---	---	---

4.

2	,	1	2	,	,	가	가
.		가					

5.

4	,	1	2
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6.

1	,	,	1	3	가	가
.			가			

7.

1	,	가	,	1	3	가	가
.		가					

(passive-matrix)

8.

1	,	,
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9.

1 , , 1 2 가 1 2 3

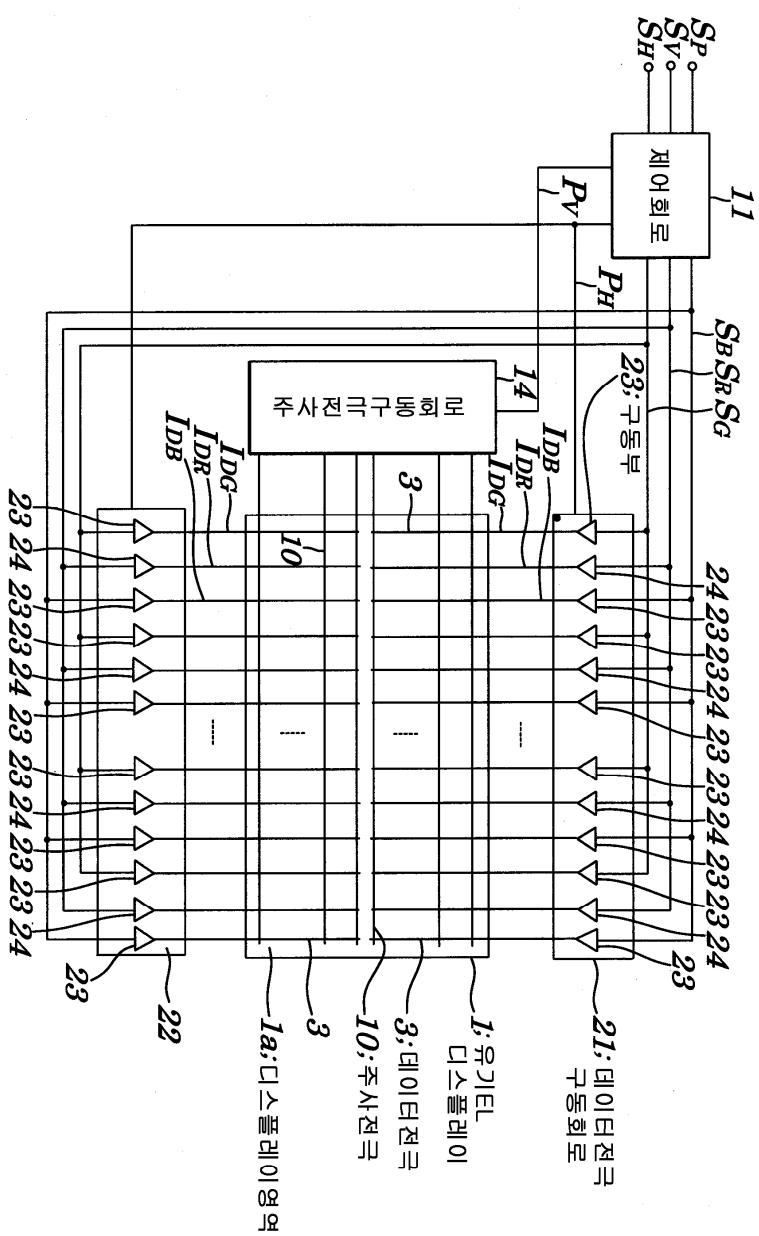
1 2 , 가

10.

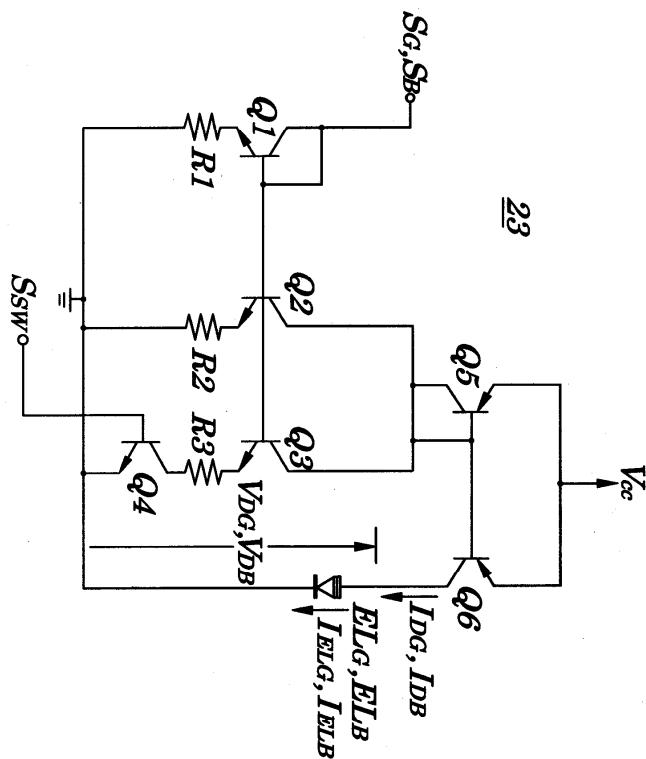
1 , ,

11.

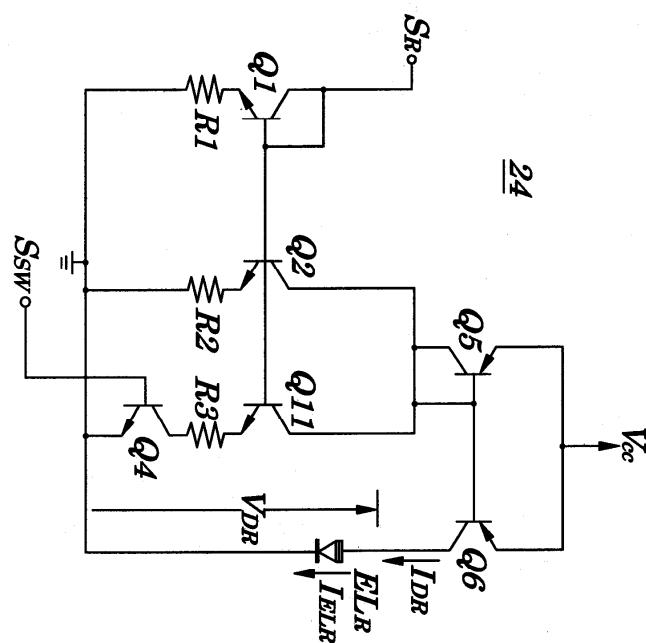
3 1 1 3 , 1 3 , ,
1 가 2 3 ; 1 3 , , 1
1 3 2 , , 2 1 , , 2 1 2 가
2 , ,

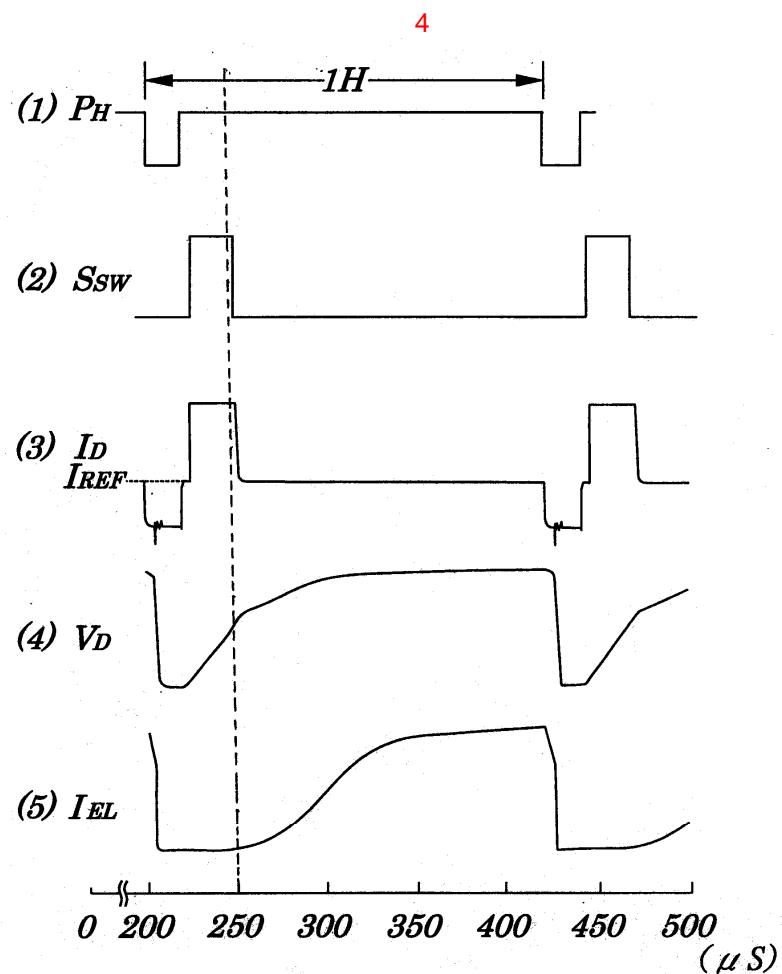


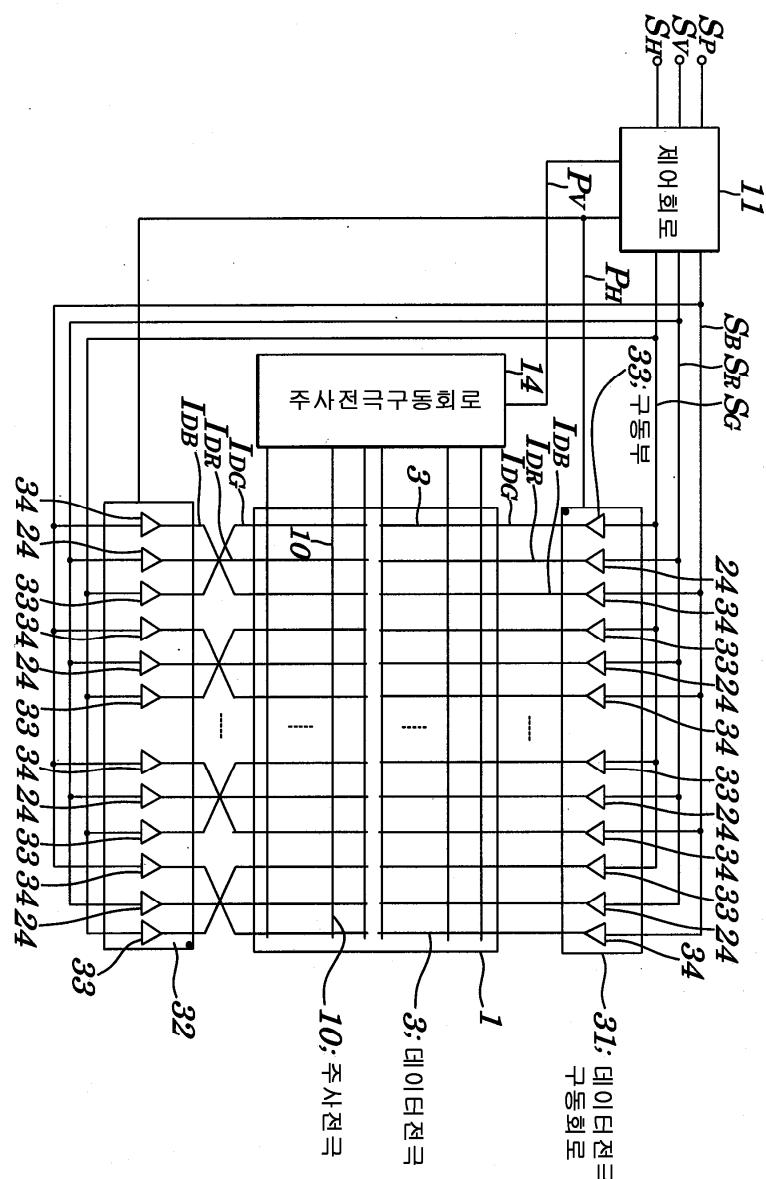
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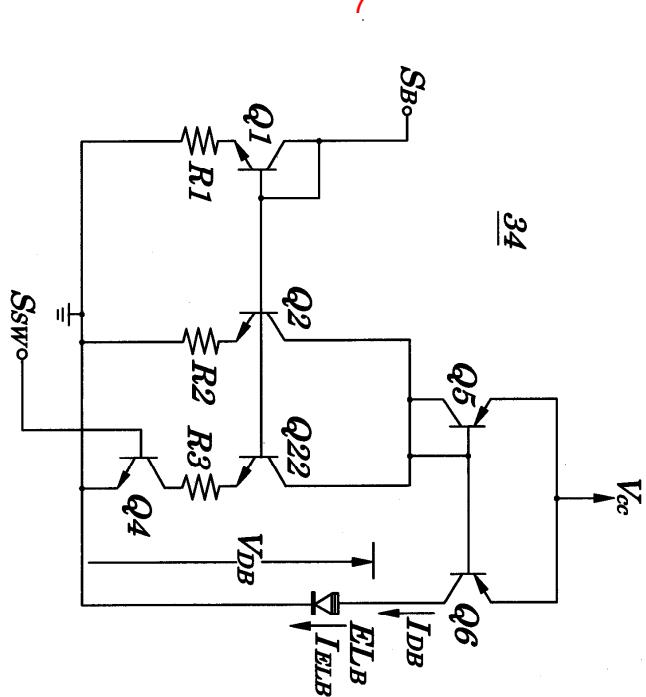
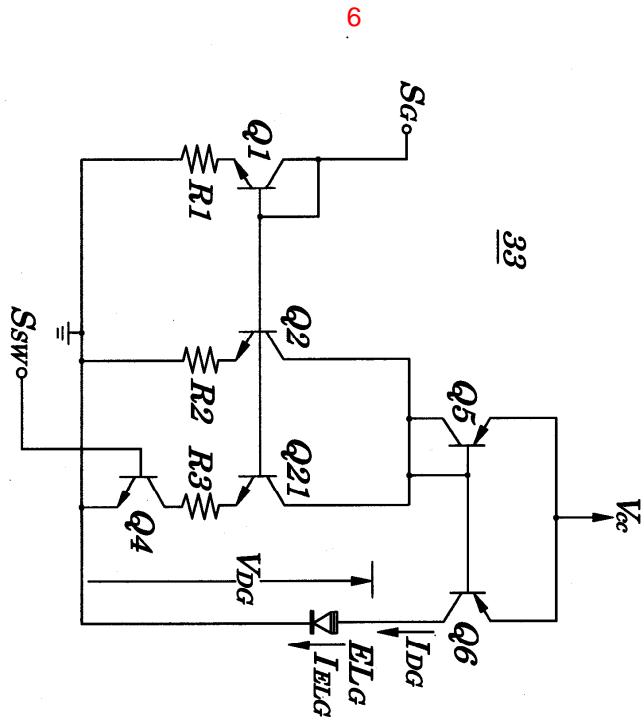


3

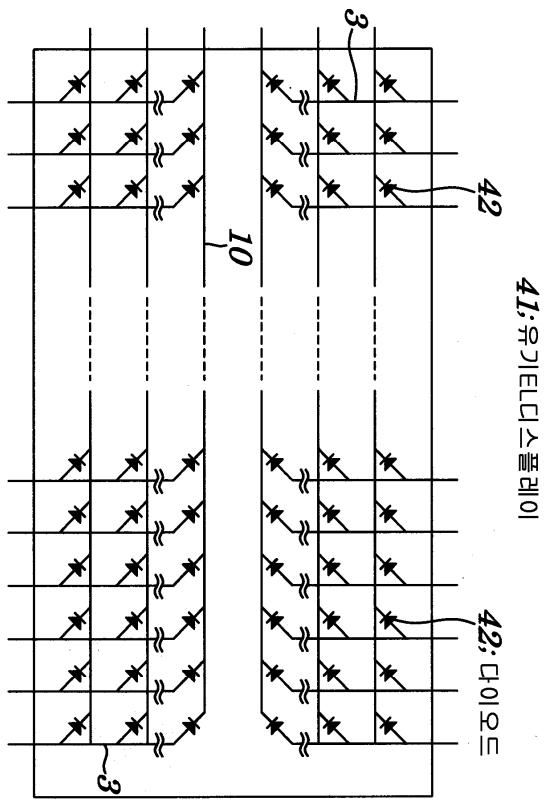




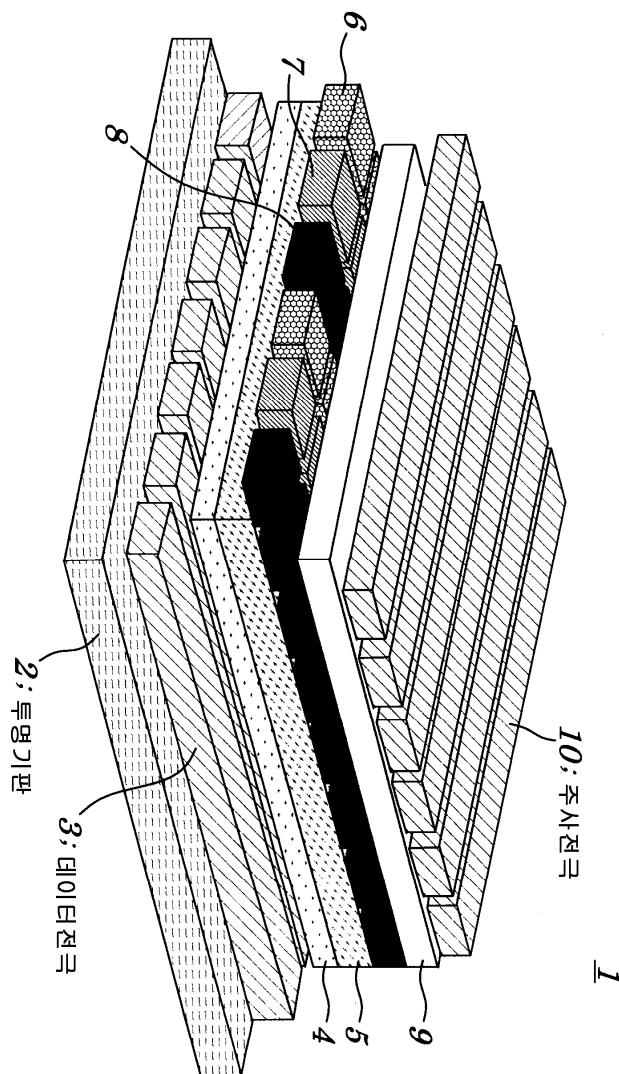




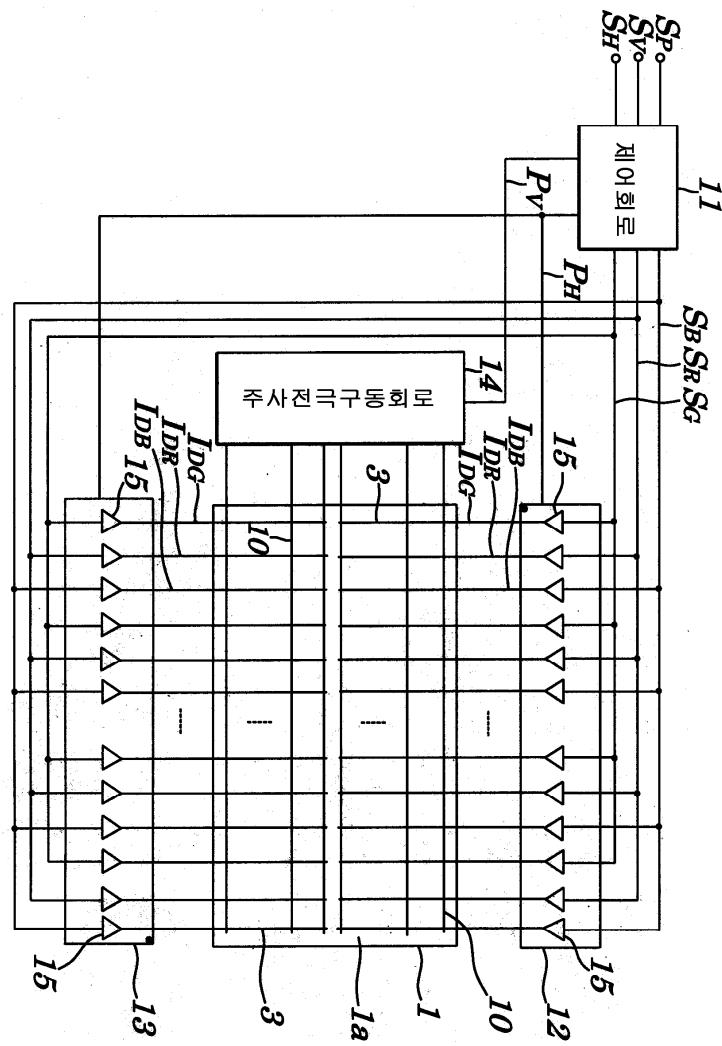
8



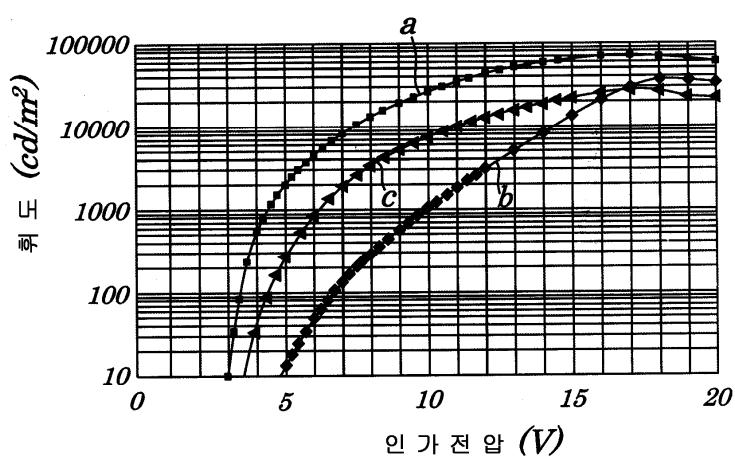
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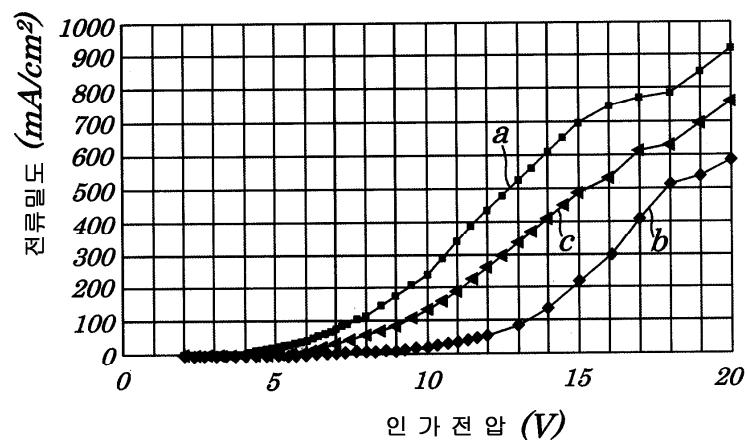
10



11



12



专利名称(译)	显示器的驱动电路和显示器件		
公开(公告)号	KR100462857B1	公开(公告)日	2004-12-17
申请号	KR1020010052477	申请日	2001-08-29
申请(专利权)人(译)	三星SD眼有限公司		
当前申请(专利权)人(译)	三星SD眼有限公司		
[标]发明人	<p>KOTA ATSUSHI 고타아쓰시</p> <p>KAWASHIMA SHINGO 가와시마신고</p> <p>NISHIGAKI EITARO 니시가키에이타로</p> <p>KONDO YUJI 곤도유지</p>		
发明人	<p>고타아쓰시 가와시마신고</p> <p>니시가키에이타로</p> <p>곤도유지</p>		
IPC分类号	H01L51/50 G09G5/02 G09G3/30 G09G3/32 G09G3/20		
CPC分类号	G09G2320/0242 G09G2330/021 G09G3/3216 G09G2310/0221 G09G2300/06 G09G3/3283		
代理人(译)	PARK , 常树		
优先权	2000259984 2000-08-29 JP		
其他公开文献	KR1020020018114A		
外部链接	Espacenet		

摘要(译)

提供一种通过发光元件显示全色的显示器的驱动电路，即使在发光元件的特性存在差异的情况下也可以获得足够的显示特性，并且可以降低功耗。该驱动电路用于条形显示器，其中红色发光有机EL（电致发光）元件的电特性与绿色和蓝色发光有机EL元件的电特性差别很大，其中这三个发光元件重复排列在以红色发光元件夹在绿色和蓝色发光元件之间的方式，并且驱动电路由驱动部分构成，每个驱动部分具有足以驱动红色发光有机EL元件和其它驱动部分的驱动部分。具有足以驱动绿色和蓝色有机EL元件的驱动能力。

