

(19)
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10-2004-0088240
2004 10 16

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2003 04 09

(71)

20

(72)

1

105 1101

106 1202

(74)

:

(54)

7

1

2

3

4 2

5 4 '0' '1'

6

7

< >

1 : 2 :

3 : 4 : EL

5 : 11 :

12 : 13 :

14 : 15 :

20 : EL

(Cathode Ray Tube)
 (Liquid Crystal Display : 'LCD'),
 Display : FED), (Plasma Display Panel : PDP') (Field Emission
 o-luminescence : 'EL') (Electr

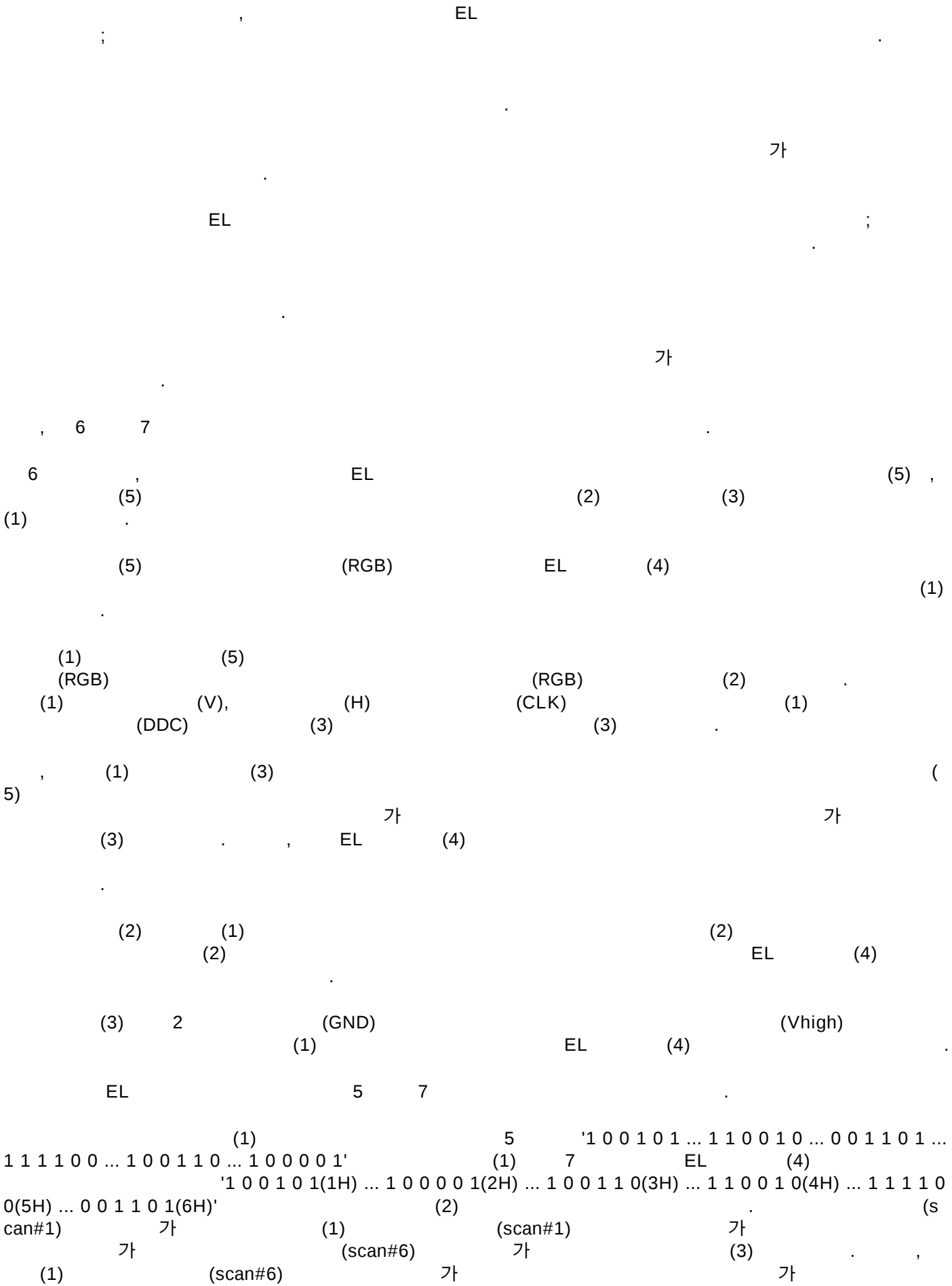
EL EL EL 가
 EL 10[V] [cd/m²]
 EL 1 (11) (12) (13),
 가 (14), 가 (15) (12) (15) 가
 (13) 가 (14) (15) (14)
 가 (12) (15)

EL 2 3
 2 3 , EL (DL1 DLm)
 (21) , (SL1 SLn) (Vhigh) (GND)
 (22,23)
 m (DL1 DLm) n (SL1 SLn) m×n EL
 (20)
 (20) (DL1 DLm) EL (20) (12) (21) EL
 (12)

(SL1 (Vhigh) (Vhigh)	SLn)	EL (GND) (GND)	(20) EL (20)	(15) (15)	(SL1 (15)	SLn)	(22,23) (22,23)
(21) (21)	2					(current mirror)	(DL1
DLm)							
(22,23)	MOS-FET						
(GND) (GND) (GND)		(22) (12)	(T1) 가	(SL1 EL	SLn) (20)	3	(15) (12)
(15)		(ion)가					
(Vhigh) (Vhigh)	EL	(20)	3	(SL1 (23) SLn) 가	(T2) (15)	(15) (12)	(SL1 (Vhigh) (ioff
)가							
(GND)		4	1	(SL1)			(SL2 S
Ln)							
EL (ioff)		(Vhigh) 3 EL	(20)	가	(C)가 (ion)가		(DL1 (C)
							DLm)
(C)			1			EL	

$$P = CV^{\frac{1}{2}} F$$

, P , C (C) , F (C)
 5 (Data#1 Data#6) EL 4
 1 (DL1) (Data#1) 1 (DL1) (C)
 2 . 5 (Data#1 Data#6) (C) 12
 . (C) 가 EL .
 5 , '1' '0' .
 , EL
 가 (On data) (C)
 .
 (C) 가 . (C)
 , EL .



(scan#5) 가 (3) .

EL 가

. 1H 6H (Data#1 Data#6)

(Data#1) '1 1 1 1 1 0', (Data#2)

(Data#3) '0 0 0 0 1 1', (Data#4)

(Data#5) '0 0 1 1 0 0', (Data#6)

a#6) '0 0 1 1 0', '1 0 1 0 1 1', '1 1 0 0 0 1' . , 7 EL (4) (C)

8 1 F가

, EL

가 가 EL

가

(57)

1.

;

2.

1

3.

1

4.

;

5.

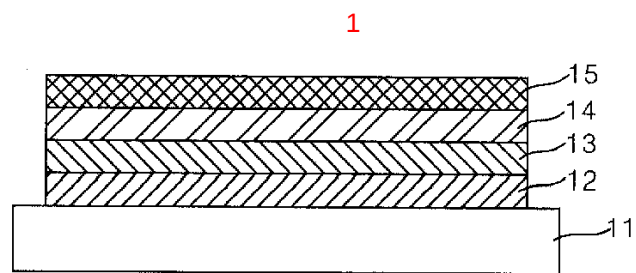
4

가

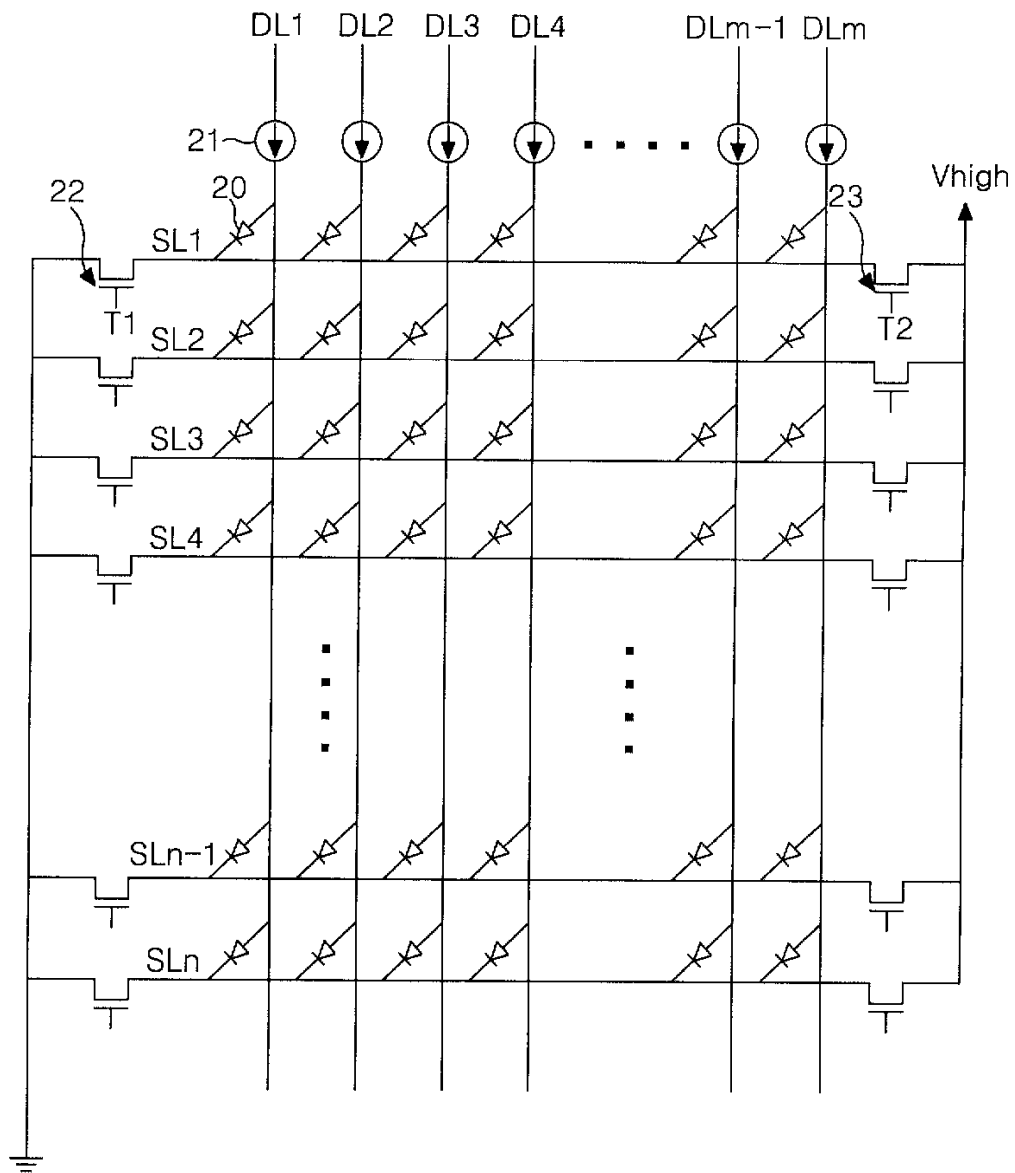
6.

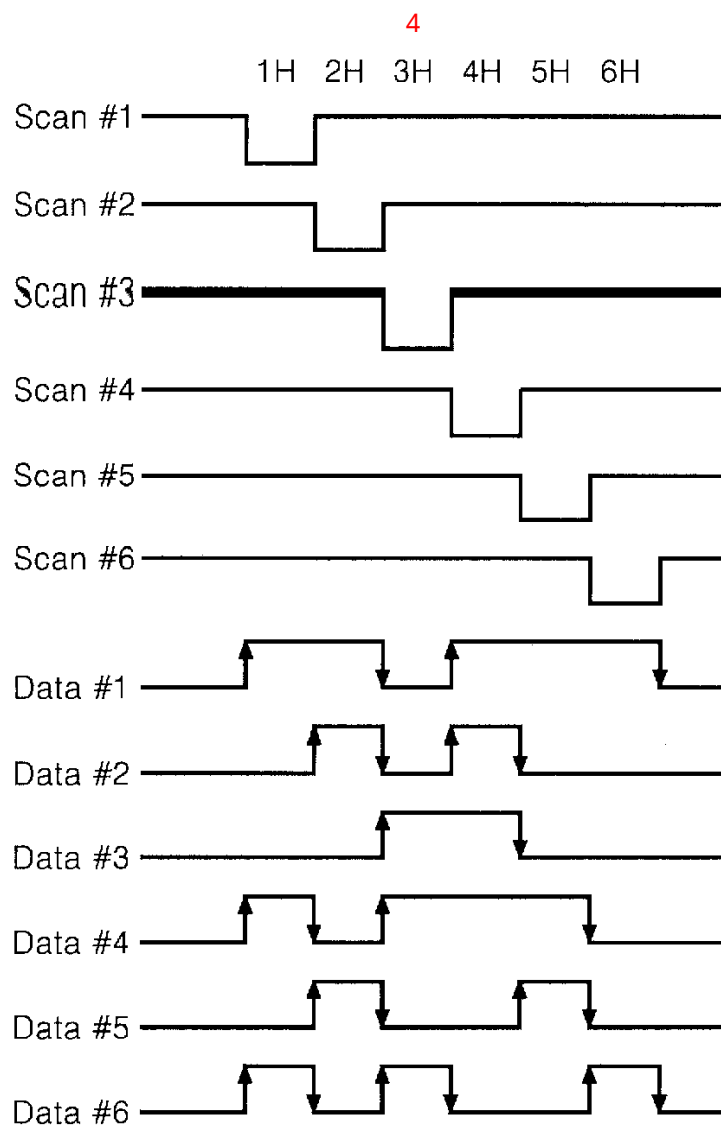
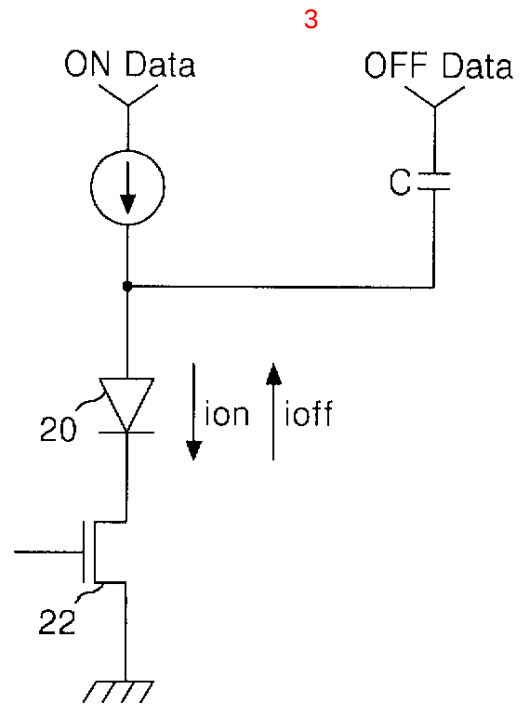
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가



2

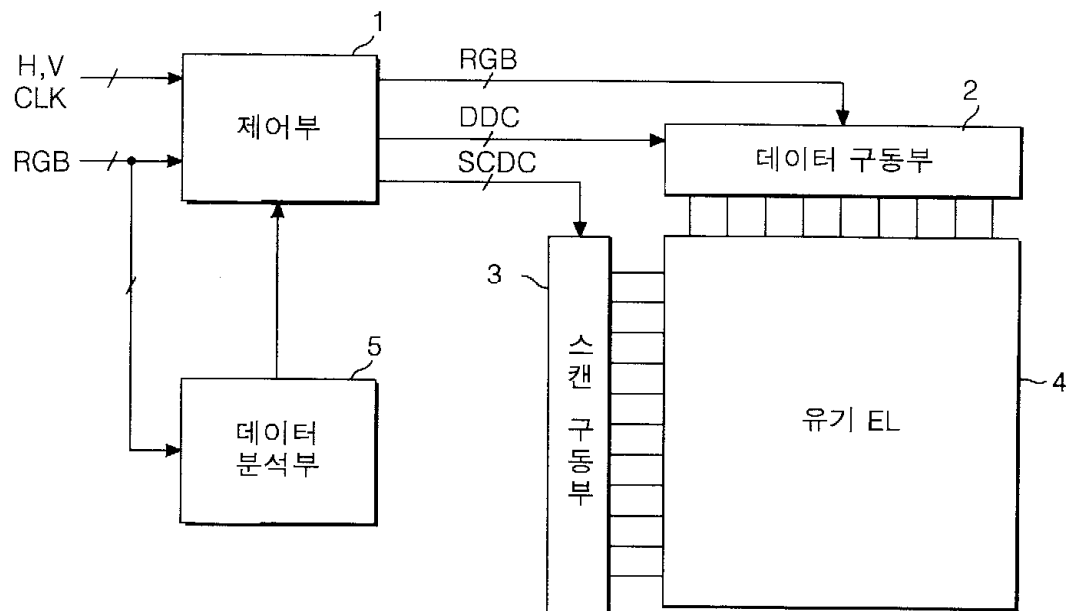




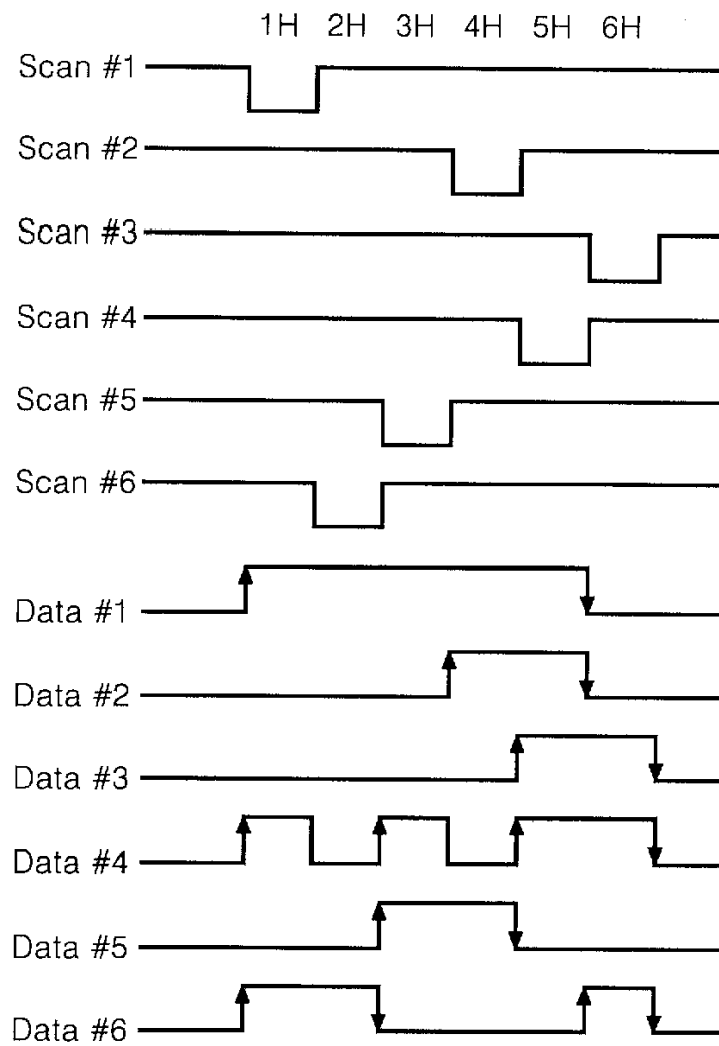
5

		Data #1	Data #2	Data #3	Data #4	Data #5	Data #6
Scan #1	1	1	0	0	1	0	1
Scan #2	2	1	1	0	0	1	0
Scan #3	3	0	0	1	1	0	1
Scan #4	4	1	1	1	1	0	0
Scan #5	5	1	0	0	1	1	0
Scan #6	6	1	0	0	0	0	1

6



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专利名称(译)	用于驱动电致发光显示装置的方法和设备		
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申请号	KR1020030022363	申请日	2003-04-09
申请(专利权)人(译)	LG电子公司		
当前申请(专利权)人(译)	LG电子公司		
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IPC分类号	G09G3/30		
代理人(译)	KIM , YOUNG HO		
其他公开文献	KR100499082B1		
外部链接	Espacenet		

摘要(译)

本发明涉及用于使功耗最小化的电致发光显示装置的驱动方法及其装置。该电致发光显示装置的驱动方法及其装置比较每条线的数据模式，并根据数据模式的比较结果选择扫描线作为无序模式。

