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(22) 2001 05 29(71) .
20

(72) 1 1630 - 17 1 101

(74) :
:

(54)

1

2

3

4

5

6 5

7a 7c

(cathode ray tube : CRT)

가 (flat panel display) 가 (liquid crystal display)
 y) (plasma display panel), (field emission display),
 (: electroluminescence display(ELD)) 가

(electroluminescence : EL)

(inorganic)

(organic electroluminescence display : OLED ELD)

가 가
 가 (contrast ratio)가 ,
 가 , (μs)
 , 5 15V
 가

가
 LED(organic light emitting diode : OLED) , LED

(active matrix) 가
 LED

1 LED , LED
 ()가 (11) (11)
 가 (gate driver integrated circuit : 12) (
 source driver integrated circuit :13) (12)
 (13) (tape carrier package) (11)
 가 .

(R), (G), (B)
 (13) (12) 가 .
 2
 (address shift register : 21) (22), (23), (di
 gital to analog converter : 24) .
 n RGB (22) (23) , m
 (21) (23) .
 , (23) (24) ,
 (24) 가 .
 , T
 CP .

가
 가 , (pitch) 70 μ m . 가
 가 , 70 μ m 가 .

LED
 ,
 LED

가
 , 가
 , , ,
 n ,
 n .
 ,

가

LED

(mobility)가

LED

3

LED

4

LED

3

LED

(110)

(120)가
(121)

(120)
(122)

(121) 가

(121)

(12

2)

(121)

(122)

(123)가

(1

23)

(124)

(123) 4
(127),
(121)

(128)

(125)

(126),

(125)

(125)

(128)

(126)
(anode)

(128)

(cathode)

(126)

(124)

(125)

(126)

(127)

(127)

(126)

(124)

(125)

(126)

3

(120)

(121)

가

(130)가

(130) TCP

(110)

(120)

(122)

(140)가

(140)

(110)

가

5

(input register : 230), n (address shift register : 210)) (latch : 220),
 (n - bit counter : 240), (250) .

(210) (dot clock : DCLK) , L/R
 , EIO1 EIO2 (start)
 (end) .

230) n R, G, B (210) m (230) , (230) RGB (

(210) (high) , RGB 가 (230) ,
 (210) (low) , RGB 가 (230) .
 , (210) k (high) , (210)

가 RGB

RGB 가 n (240) ,
 (230) 가 .

n (240) (CCLK) (250) R(G B) 가 (250)
 , (250) n (240)

(250) 6 , (250)
 R (251) n , (25

2) (251) ,

R(G B) n
 7a 7c .

RGB 가 6 . RGB 가 6 ,
 64 가 .

R(G B) LED .

R(G B) 가 , 7b 가 n
 1 . 000100, 100110, 11111

, n RGB , 7c .

,

,

,

,

, TCP ,

가 .

가 , 70 μm 가

(57)

1.

;

가

;

;

2.

1

,

,

;

,

;

n

;

n

3.

2

,

4.

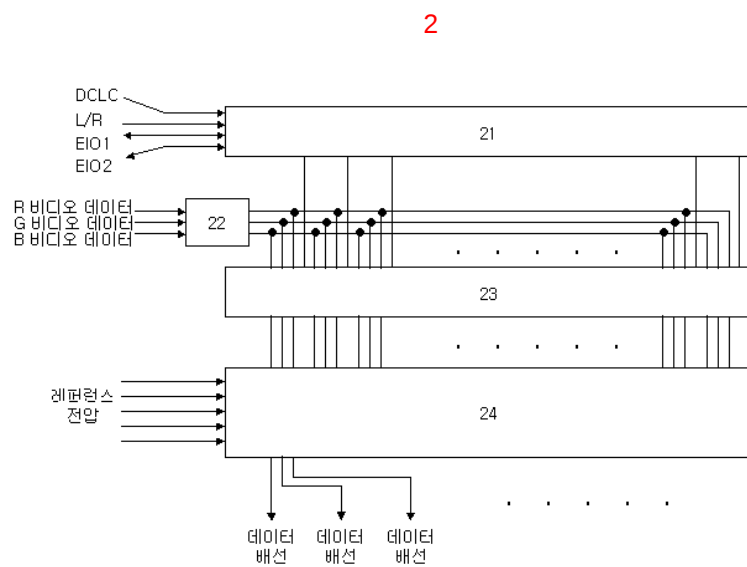
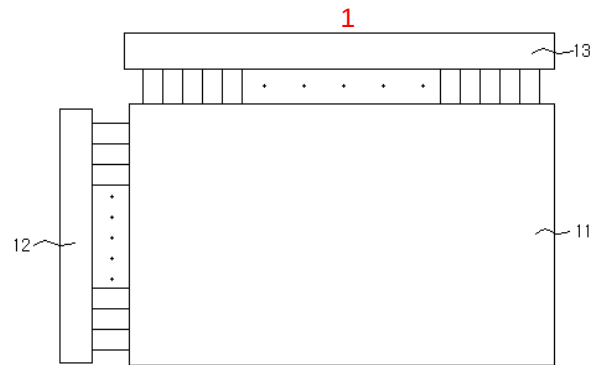
1

,

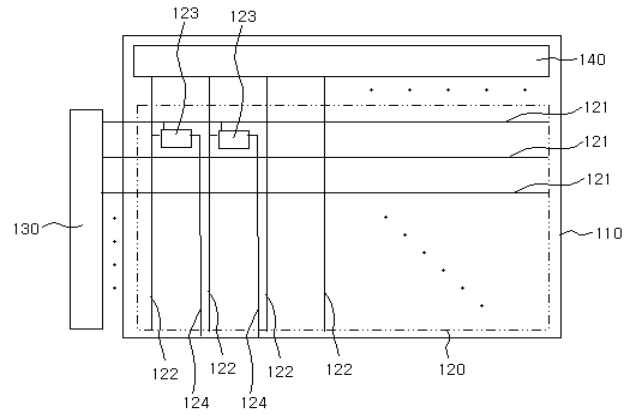
5.

1

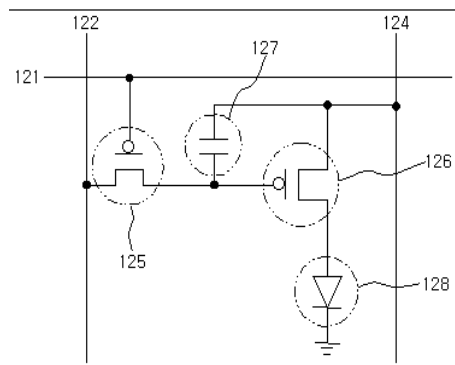
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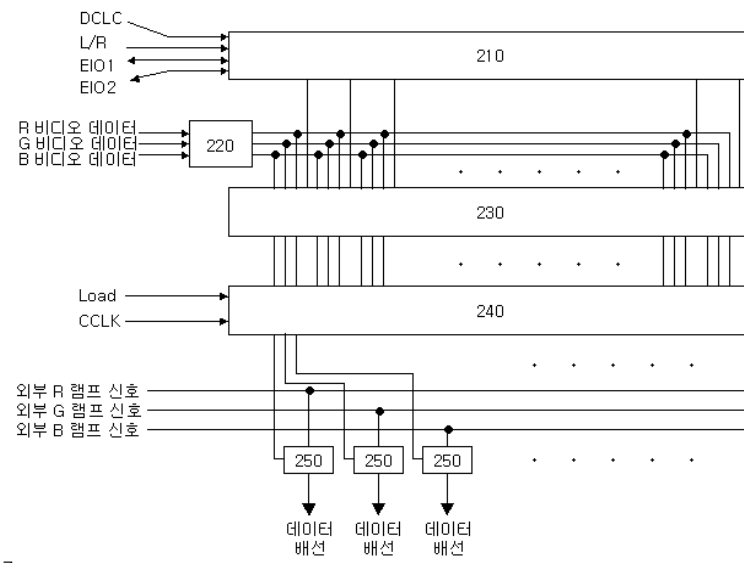
3



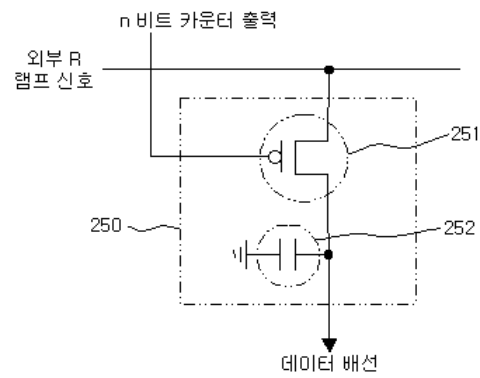
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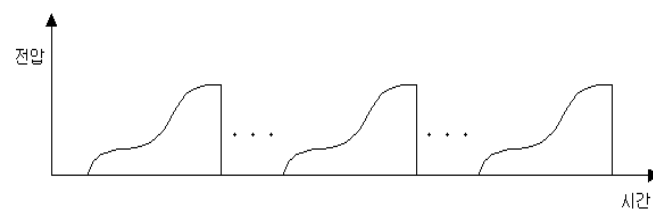
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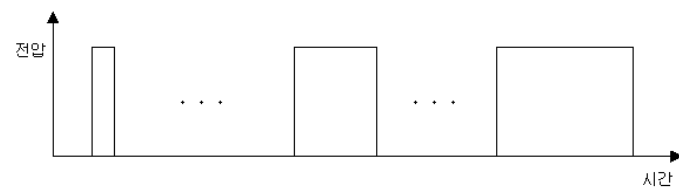
6



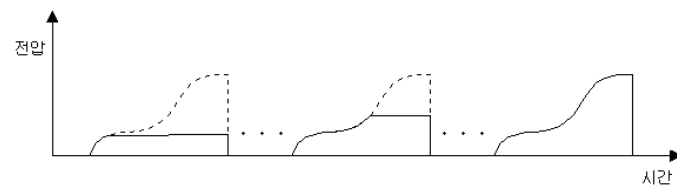
7a



7b



7c



专利名称(译)	有机电致发光器件及其驱动电路		
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摘要(译)

本发明涉及有源矩阵有机电致发光器件及其驱动电路。有源矩阵有机EL器件是要求一个源极驱动器集成电路和用于驱动的栅极驱动器集成电路，例如集成电路制造为单晶硅是在生产成本高，并且必须被附连到制造的集成电路，所以这个过程也是复杂的它变成了。开关元件是有源矩阵有机电致发光器件的薄膜晶体管是如此主要移动性是由高的多晶硅，在本发明中，形成在其上的像素部分是通过使用这样的多晶硅源极驱动器形成在同一基板上的源极驱动器的。因此，不需要单独的附接步骤并且简化了结构，从而可以简化制造工艺并且可以降低制造成本。3 指数方面 有机电致发光器件，源极驱动器，驱动电路

