

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

(51) 。 Int. Cl. ⁷ H05B 33/22	(11) (43)	2003-0058149 2003 07 07
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(21)	10-2001-0088536
(22)	2001 12 29

(71)	.	20
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(72)	가	307-801
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(74)	:
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(54)

1	,	가	,
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1	가	,
1	.	,

6	,	,
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1	.
2	.
3 2 A	.

4 .

5 4 B .

6 7 .

< >

223 : 240 :

252 : 262 :

270 : 1

가 (cathode ray tube : CRT)

가 (flat panel display)

가 (liquid crystal display)

가 (plasma display panel), (field emission display),

(: electroluminescence display(ELD)) 가

(electroluminescence : EL)

(inorganic)

(organic electroluminescence display : OLED ELD)

가 가

가 (contrast ratio)가 (μs)

5V 15V

가

가 LED(organic light emitting diode : OLED)

(active matrix) 가

(active matrix)

1

(switching) (4) (driving) (5),

(6), (7)

(4) (1) (2)

(4) (5)

(5) (7) (anode)

(5) (3) (7) (cathode)

(6)가 (5)

(1) 가 가 (4)가 (on) (2)

(5) (6) (7) (4)

(off) (7) (6) (5)

가 (7)

가 (color changing medium)

2

(10) (21) (22, 23)

(T)가 (T) (T2) (231)

(40) (51, 52, 53)가 (51)

(52) (61, 62) (61, 62)

(51, 52, 53) (40) (23) 가 (70) (23)

(53) (61, 62) 1 (70) 1 (70) (23)

1 (70) (80) (80) 2 (80) 2

(90) (80) 2 (90) (10)

3 3 2 A

3 (23) (62) (52) (62) (52)

(40) (40) 8 μm (52) (40) 10 μm 가 (62)

15 μm 가

3 가

(negative) (photo sensitivity) 가

(100) (110) (102) (120) 가 (100) (102)

(110) (120) () (120)

(122) (122) 가 (122)

(122) (122) 가 (122)

가 1 (contact resistance)

가

가
1 , , 1 2
1 , 1 .
1 , 1
1 , 1
1 ,
1 , 1
1 ,
5 (210)
(222, 223) (T1)가 , (T1) (221) (210)
(231) ,
가 , (T1) (T1) , (223)
(240)
(240) , , (251, 252, 253)가 ,
(251) (252) (261) (262)
(261, 262) (251, 252, 253) (240) (223)
가 , (251) (261) (252)
(262) (253)
(261, 262) (253) 1 (270) 1
(270) (223) , 1 (270) - - (indium-tin-oxide) -
(indium-zinc-oxide) , 1 (270)
1 (270) (280) , (280) (
210)
(280) 2 (290) , 2 (280)
6 , 6 5 B
(310) (240) 1 (270) (223) (252) (262)
(223) 가 (223) 1 (270)
7 (320) (252) (262)
8 1 2 (310, 320) , (240) (252)
(252) (262)
가

1 . , ,

(57)

1.
;

;

;

, 1 ;

1 ;

2

,

1

2.

1 ,

1 .

3.

2 ,

.

4.

2 ,

1 .

5.

4 ,

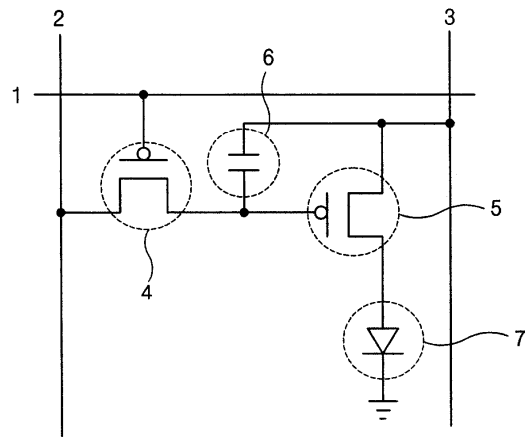
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6.

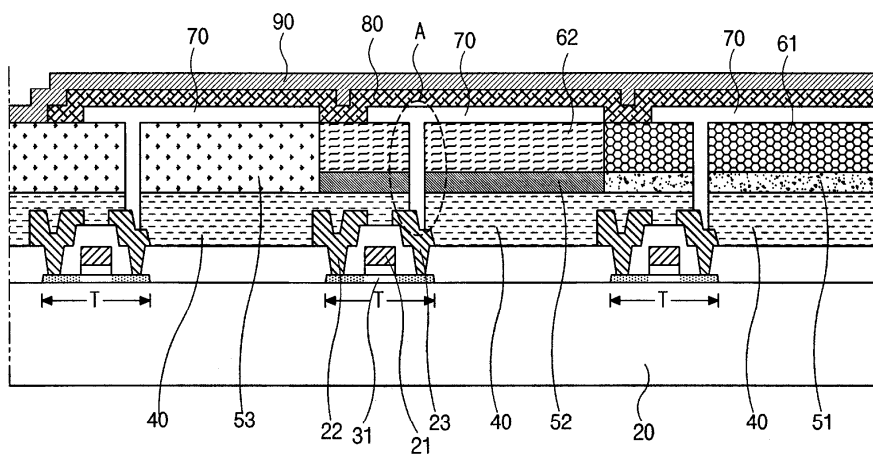
5 ,

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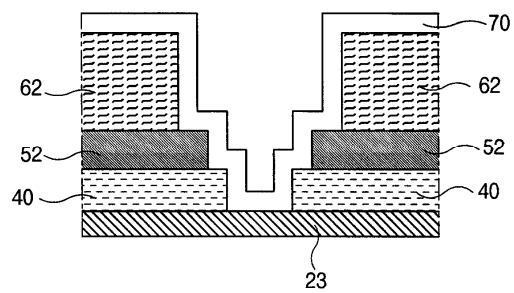
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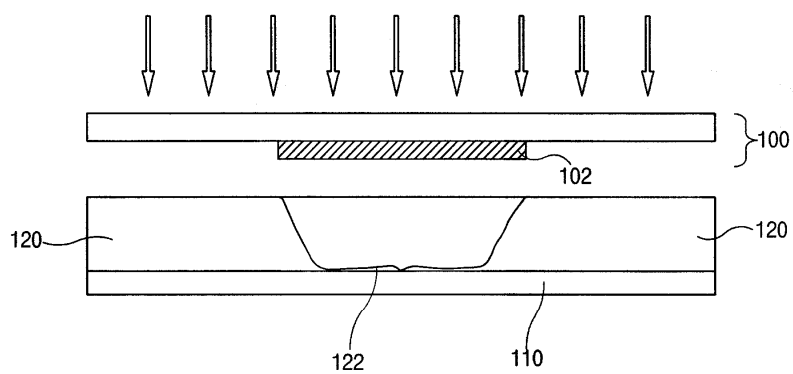
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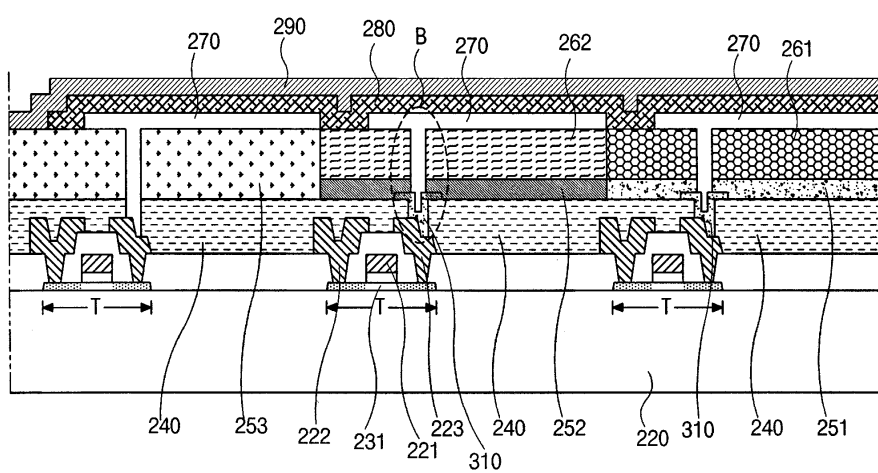
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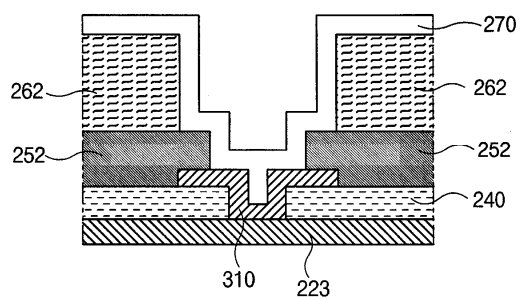
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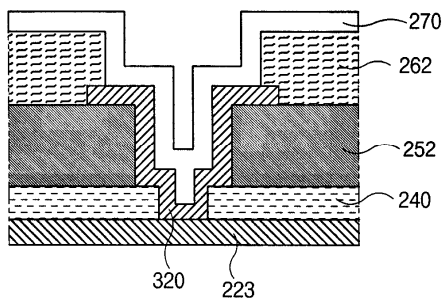
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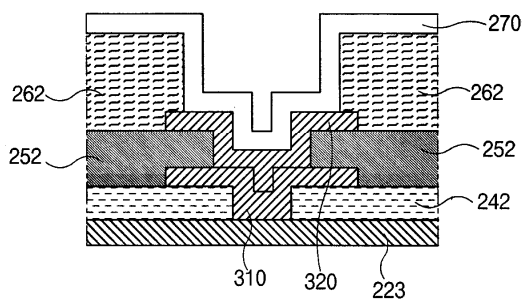
6



7



8



专利名称(译)	有源矩阵有机电致发光器件		
公开(公告)号	KR1020030058149A	公开(公告)日	2003-07-07
申请号	KR1020010088536	申请日	2001-12-29
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	PARK JAEYONG 박재용		
发明人	박재용		
IPC分类号	H05B33/22		
CPC分类号	H01L27/3248		
其他公开文献	KR100774257B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种有源矩阵有机电致发光器件，能够通过降低薄膜晶体管和第一电极之间的接触电阻来改善屏幕质量。结构：在绝缘基板上形成薄膜晶体管（T），形成保护层（240）以覆盖薄膜晶体管。第一电极（270）形成在保护层上方并连接到薄膜晶体管。在第一电极上形成有机发光层（280），在有机发光层上形成第二电极（290）。在第一电极和薄膜晶体管之间形成导电膜（310）。©KIPO 2003

