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2003 05 01

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(22) 2001 10 25

(71) . 20

(72) 10 가 501

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1

(54)

4

5

1

$$2 \quad 1 \quad -$$

3a 3e .

4 .

5 4 - .

6a 6b 7a 7e, 8a 8b .

9 .

< >

110 : 121 :

122 : 130 :

141 : 151, 152 :

161 : 162 :

163 : 170 :

171 : 181 :

가

(Active Matrix LCD : AM-LCD)가

가

(black mat

rix)

5 6 가

[illegible]

가 ,
가
1 가
1
2
1
가
가
1 가 3
1 2 ,
1.1 μm 1.3 μm 가 1.5 μm 1.1 μm
4
가
4 5 4 -
4 5 (110) (121) (122), 1 2
(124, 125) (121) 가 (122)
(121) , 1 2 (124, 125) 가 (121)
(122) , 2 (125) 가 , 1 (124) 2 (125)
가
(121) (122), 1 2 (124, 125) (130)
(130) (141) (151, 152)
(151, 152) (161) (162, 163) (162)
161) (161) 가 (163) (162) 가

1 (162) 2 가 (163) 1
(161) 가 (161) 2 (124)
1 (124) 가 (161) 1 (124)
(151, 152) (161), (162, 163) 가
(141) (162, 163) 가
(161), (162, 163)
(161) (162, 163) (170)
(170) (130) (163) (171) 가 (171)
(163) 2
(181) (181) (171)
(163) (121) (163) 1 (181)
1 2 (124, 125), (163) 1 (181)
2 (124, 125) 가
4 6a 6
b, 7a 7e, 8a 8b, 4 5
6a 6b 6b 6a b- b
(110) (121) (122), 가 (121)
5) (124, 12
(125) (121)
(161) 7a 7e (162, 163), (151, 152) (141)
7b (130) (140) (150)
(160) (191, 192) 2
가 1 가 1 (191) 2
(192) 가 2 9 9
2
2 (200)
(261, 262, 263) (264) 가 (264)
가 2 (7b 192) 1 (7b 191)
가 가
(264) (b, e) 1.5 μm (a, c, d) 1.3 μm 가
(f) 1.1 μm 가
7c (191, 192) (7b 160)

(155), (7b 150), (141), (7b 140), (165), (141), (192), (191), (192), (191), (ash ing), 2, 1, 2, 1, 가, 7e, (162, 163), (165), (151, 152), (155), 1, (161), 1), 8a, 8b, (163), (171), 가, 3, (170), 4, 5, - -, (indium-tin-oxide : ITO), (181), (181), (171), (163), (163), (121), (124, 125), 4, 가, 4,

(57)

1.

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가 ,

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2.

1 ,

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3.

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1

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4.

3 ,

2

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5.

4 ,

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6.

1 ,

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7.

1

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가

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가

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,

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8.

7 ,

1 ,

,

1 2 , 가 3 .

8 9. , .

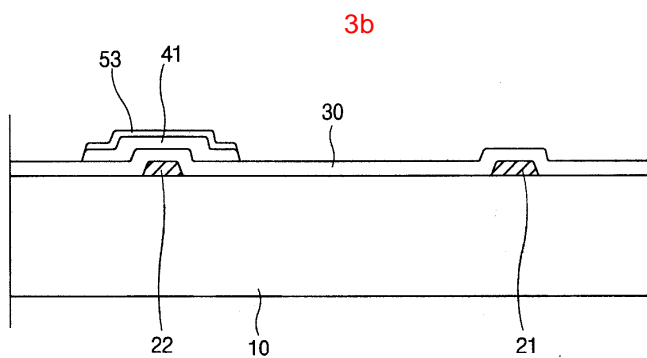
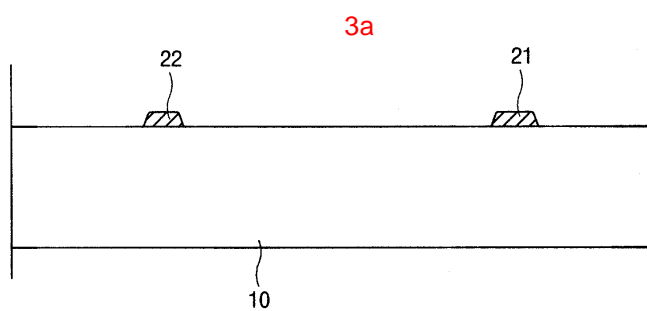
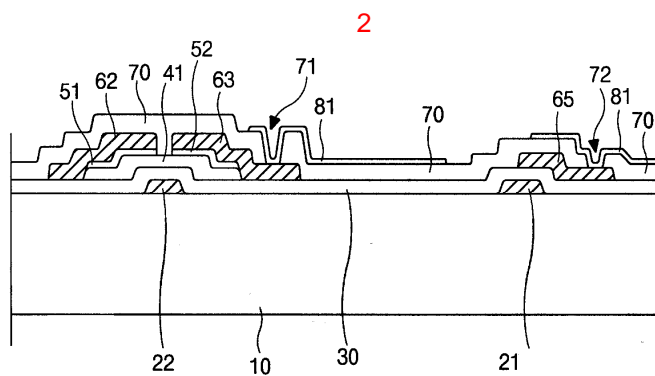
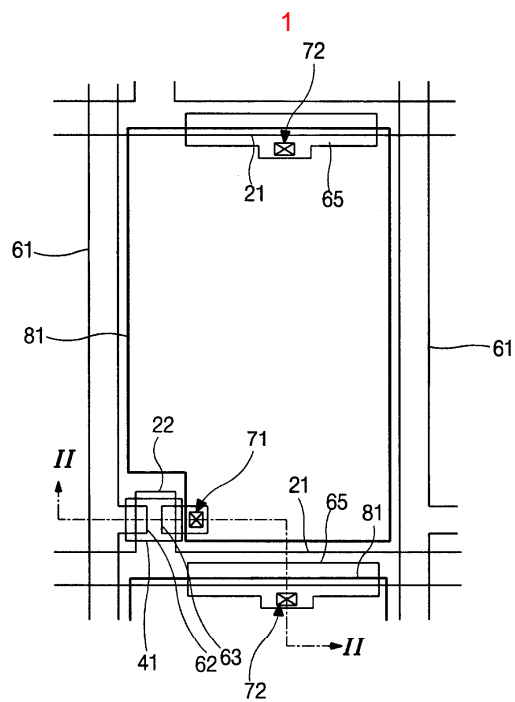
9 10. , ' , .

10 11. , .

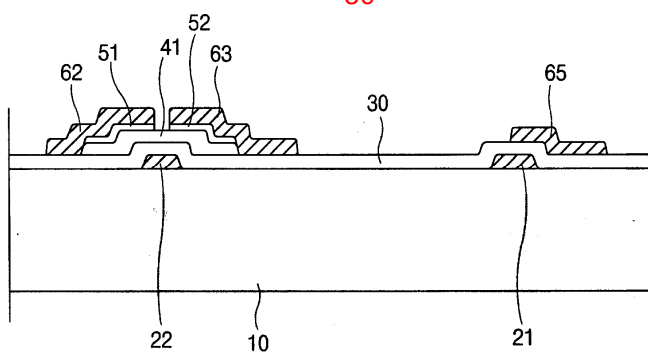
10 12. , 1.5 μm .

11 13. , 1.1 μm 1.3 μm .

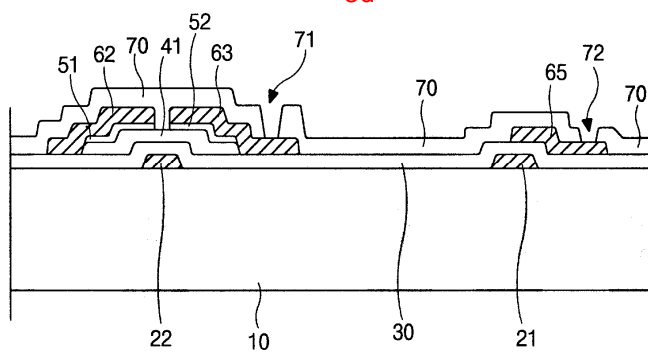
11 14. , 1.1 μm .



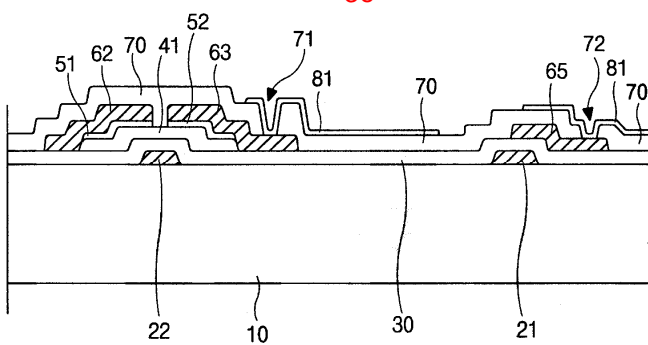
3c

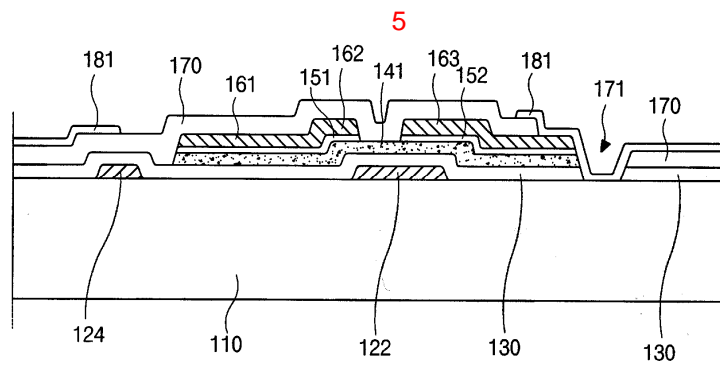
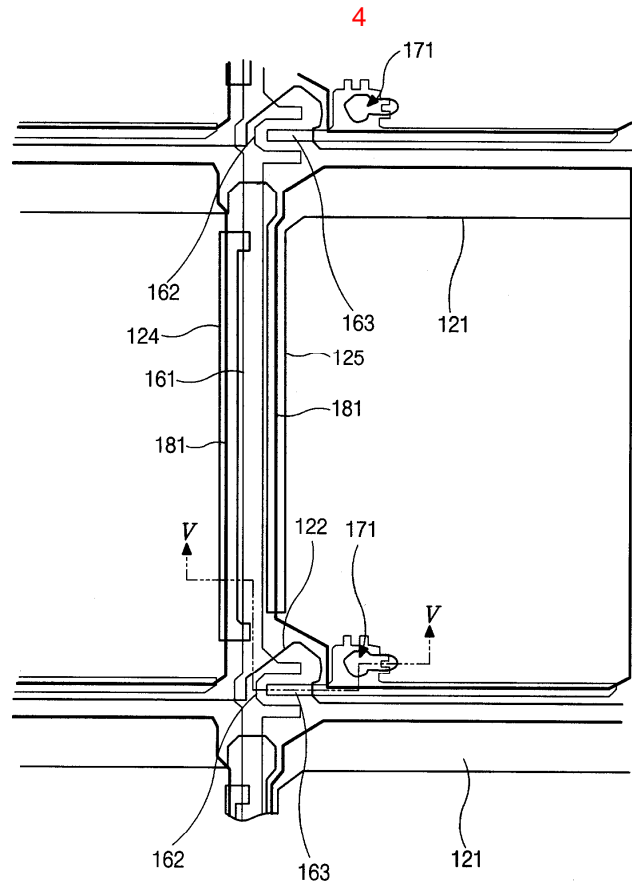


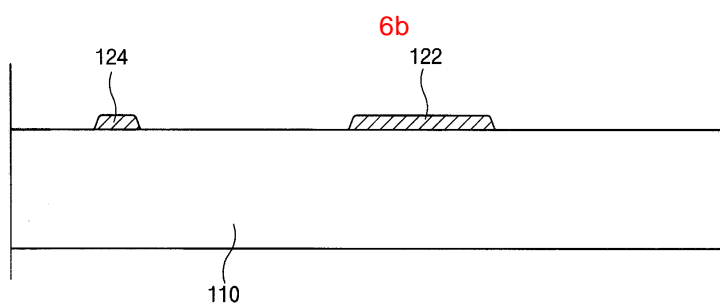
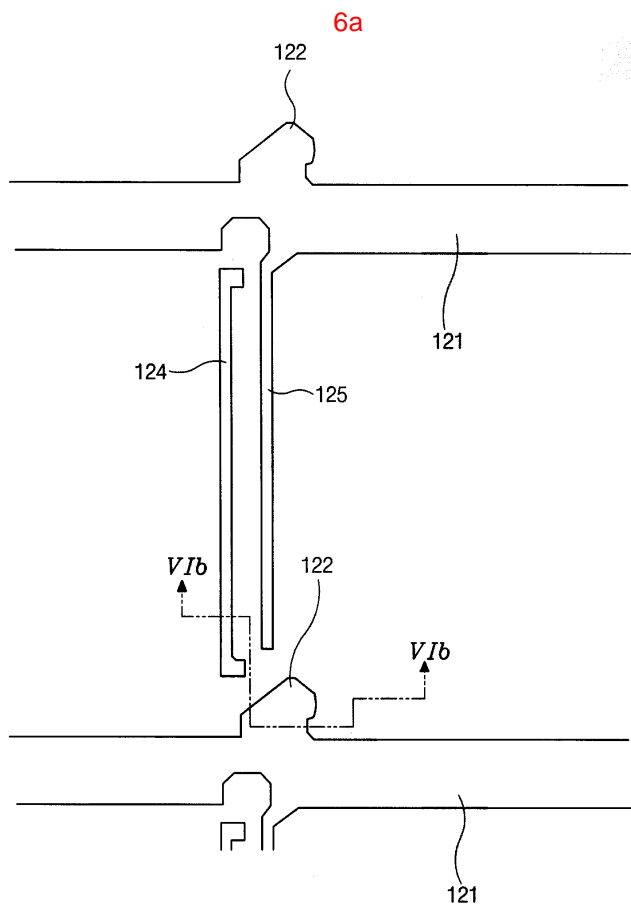
3d

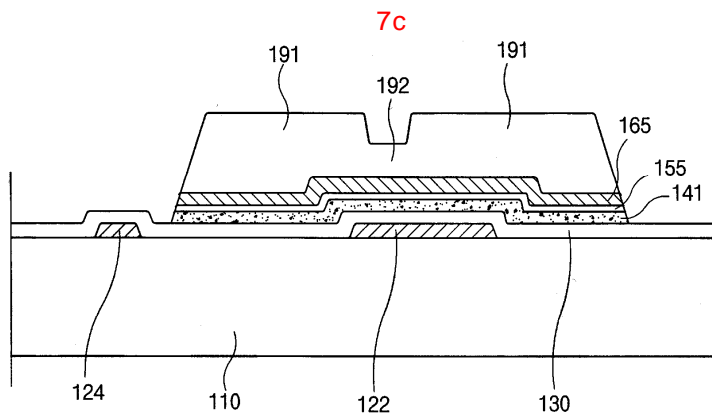
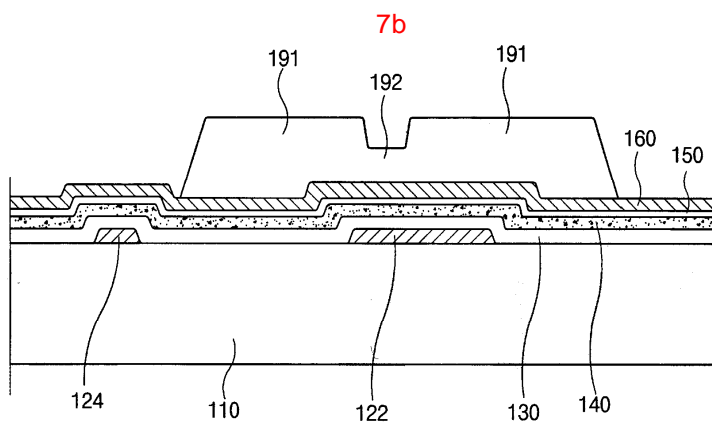
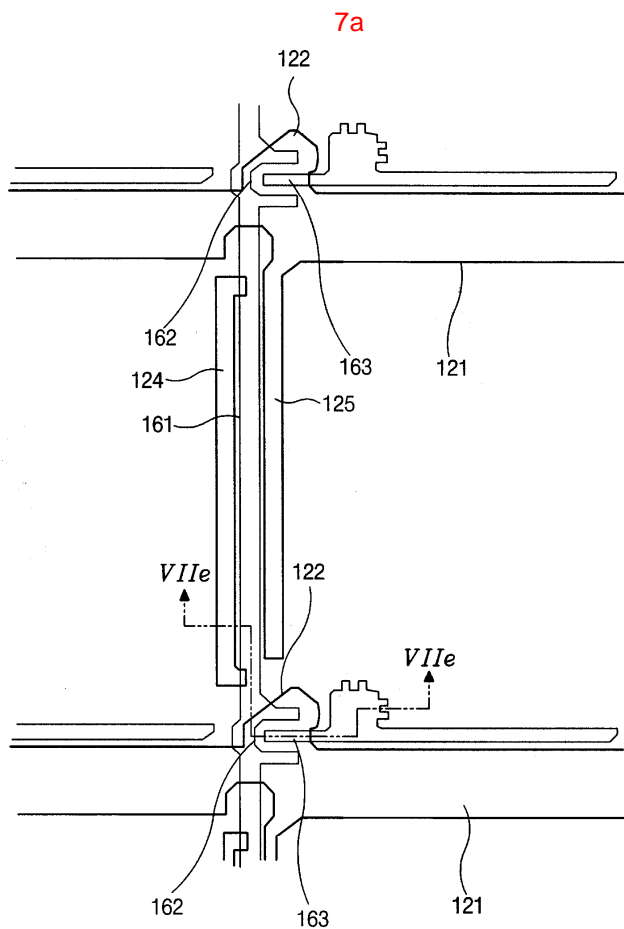


3e

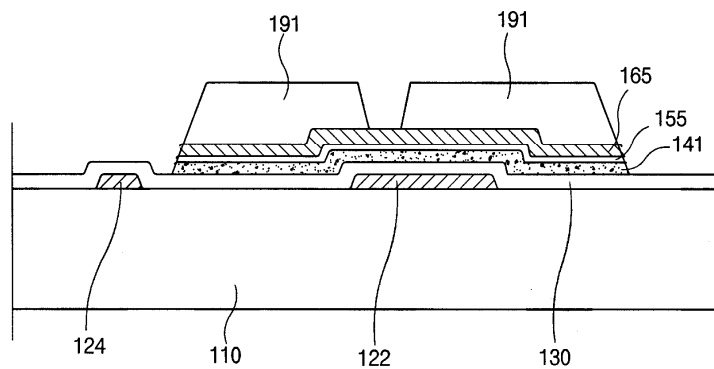




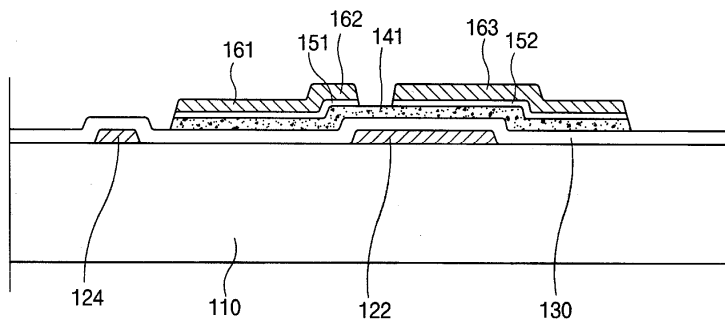




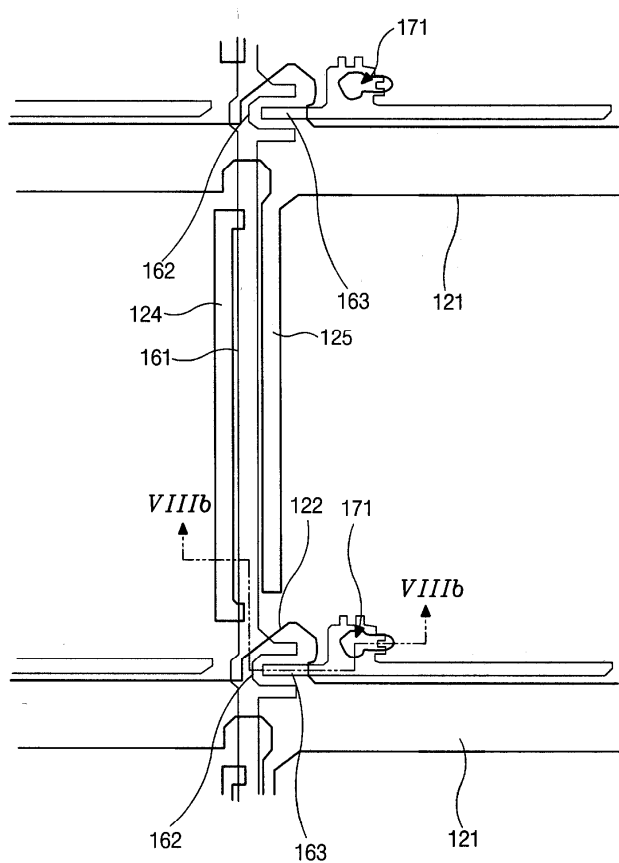
7d

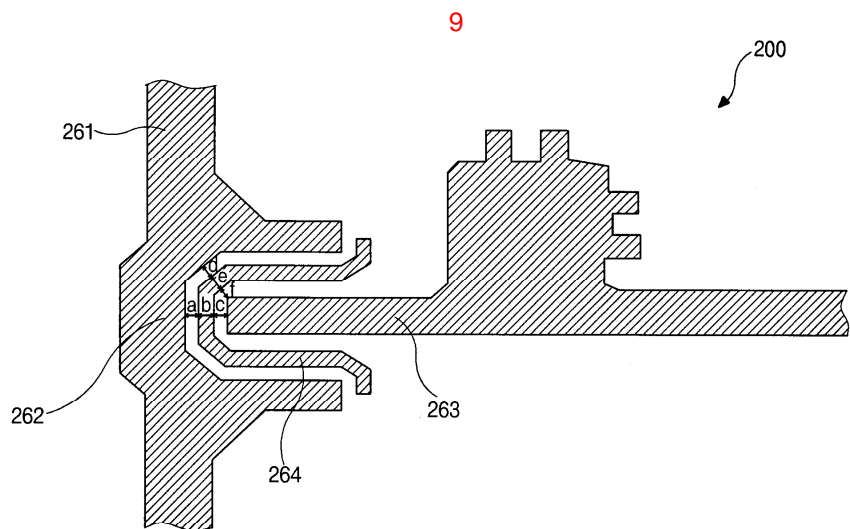
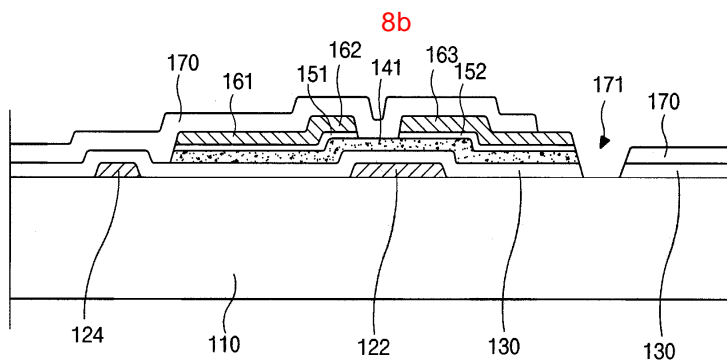


7e



8a





专利名称(译)	用于液晶显示装置的阵列基板及其制造方法		
公开(公告)号	KR1020030033785A	公开(公告)日	2003-05-01
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[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		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	PARK DONGJIN 박동진 KIM YONGWAN 김용완		
发明人	박동진 김용완		
IPC分类号	G02F1/1362 G02F1/1333 G02F1/1335 G02F1/1368		
CPC分类号	G02F2001/136236 G02F2001/136218 G02F2001/136263 G02F1/1368		
其他公开文献	KR100391157B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种液晶显示装置的阵列基板及其制造方法，以形成圆形U形的薄膜晶体管的通道并利用折射曝光，从而简化制造过程并稳定地提高产量。组成：液晶显示装置的阵列基板包括基板，在基板上沿一个方向形成并与栅极连接的多条栅极线，形成在栅极线和栅极上的栅极绝缘膜，有源层形成在栅极绝缘膜上的欧姆接触层（151,152）形成在有源层上，数据线（161）形成在与栅极线交叉的欧姆接触层上，源极和漏极（162,163）从数据线延伸，保护形成在数据线和源极和漏极上并具有用于部分地暴露漏极的接触孔的层和用透明材料形成在保护层上并连接到漏极的像素电极。欧姆接触层与数据线以及源极和漏极具有相同的形状，除了源极和漏极之间的对称U形之外。

