

(19)
(12)

(KR)
(Y1)

(51) 。 Int. Cl. ⁷
G02F 1/133

(45)
(11)
(24)

2001 12 24
20 - 0258146
2001 12 07

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20 - 2001 - 0028251
2001 09 13

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2 218 - 14 301

3 1469 - 6 102

(74)

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가 :

(54)

5f

, , , COT,

1

2

3a 3d

4

5a 5g

<

110 : 1 122:

130 : 141 :

151, 152 : 162 :

163 : 170 :

171 : 181 :

190 :

(flat panel display) 가 , , (liquid crystal display)가 , ,

, 가

1

, (10) (20), (10, 20)
(30)

(10) 1 (11) (12) ,
 (SiN_x) (SiO₂) (13) (12)
 (12) (13) (14)
 (15)
 (15) (16a, 16b) (12) (T)
 (16a, 16b) (12) (16a)
 (16a, 16b)
 (17) (17) (16b) (17c) 가
 (17) (18) (18)
 (17c) (16b)
 (20) 1 (11) 가 2 (21) ,
 2 (21) (22)가 (T) 가
 (22) (18) 가
 (T) 가
 (22) (23)가 (23) , ,
 (18) (23)
 (24)
 (liquid crystal cell)
 2 1
 (21) (22)가 (23a, 23b, 23c)가
 (24) (25)
 3a 3d
 3a (21) (22a) 가 (22) (black r
 esin) (22)
 3b (22) (
 3a 22a) (23a)

3c (23a) 가 (23b) (23c)

(22) (3a 22a)

3d (23a, 23b, 23c) (24)

(misalign)

가

가

on thin film transistor ; COT) (color filter

(COT)

4 COT

1 (110) (122) (12

(130)

2) (122) (130) (141)

(151, 152)

(151, 152) (162) (163) (122) (162, 163) (122) (T1) . , (170) (170) (163) (171) 가 . , (170) (181) (181) (171) (163) . (181) (thermal imaging) (191)가 (191) , , (181) . , 1 (110) 1 (110) 가 2 (210) (T1) (220)가 (220) (230) . , 1 (110) 2 (210) (300) . , 가 가 가 . , 가 .

5a 5g . 5a (110) (122) . , 5b (122) (130), (153) (141) . , 5c (153) (162) (122) (162) (163) (153) (151, 152) (162, 163) (122) (T1) . , 5d (163) (171) (170) . , 5e - - (indium - tin - oxide) (171) (181) . , 5f (181) (190) (scan) (181) 가 ,

(T1)가 (181)
(191) . , 5g ,
.

, ,
· , ,

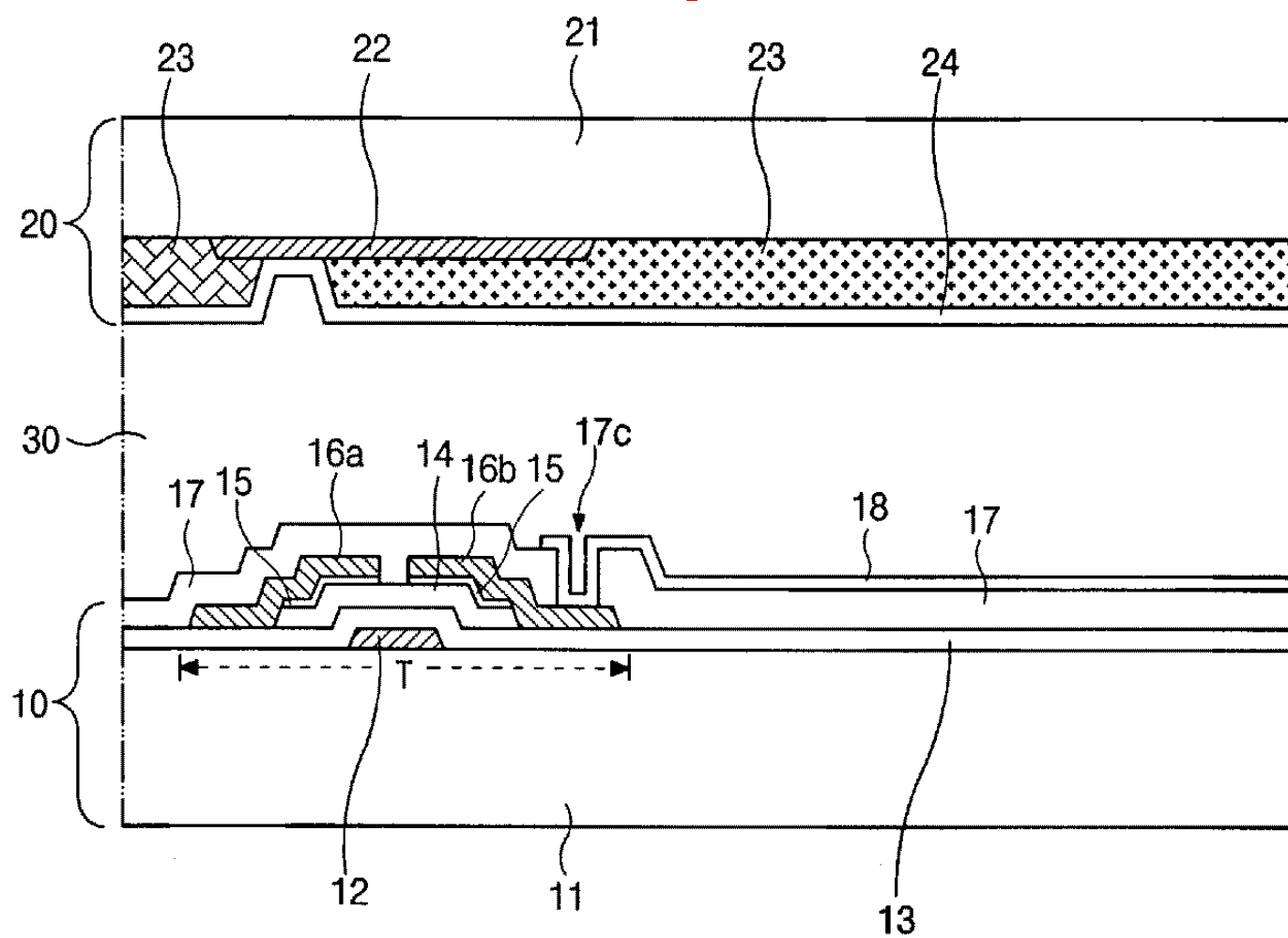
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(57)

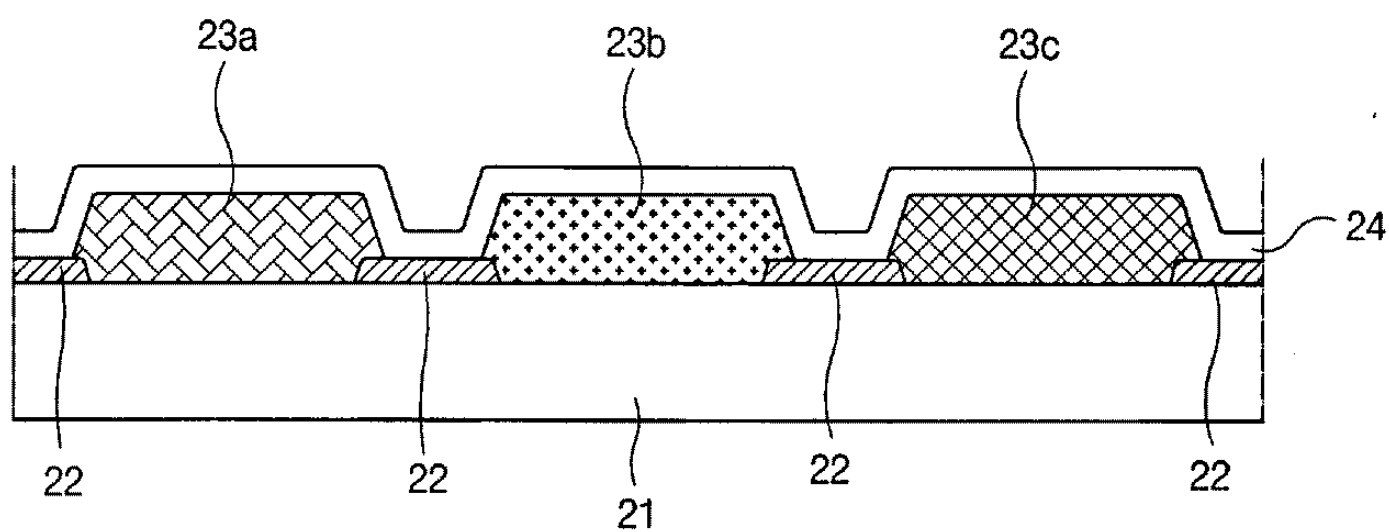
1.

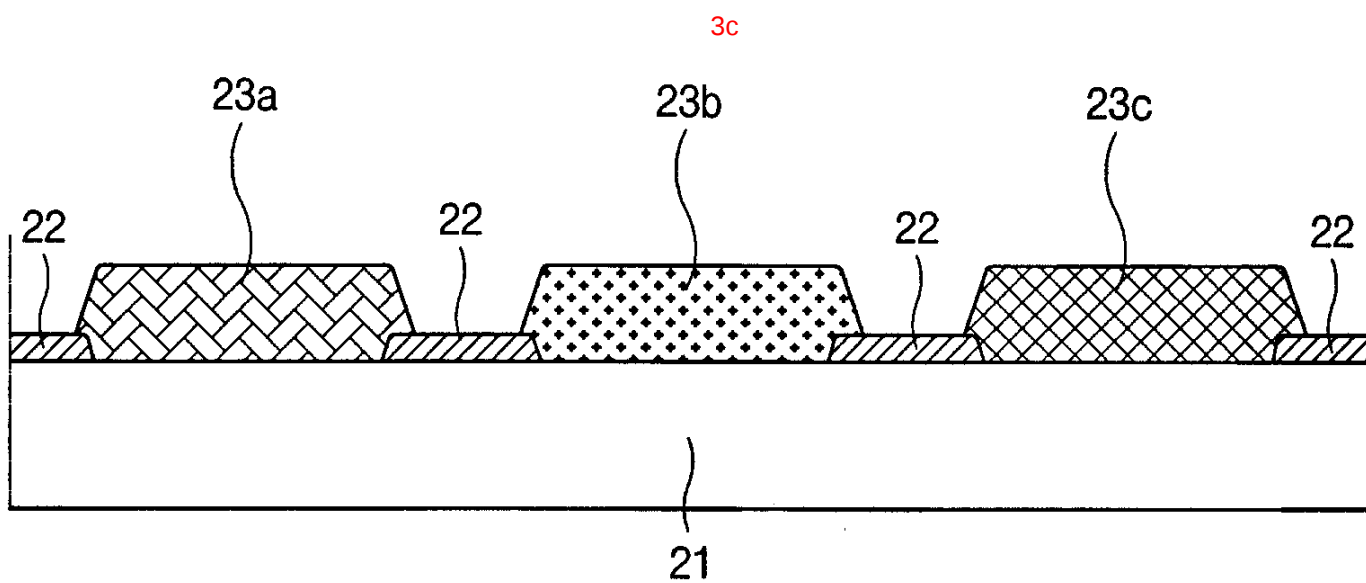
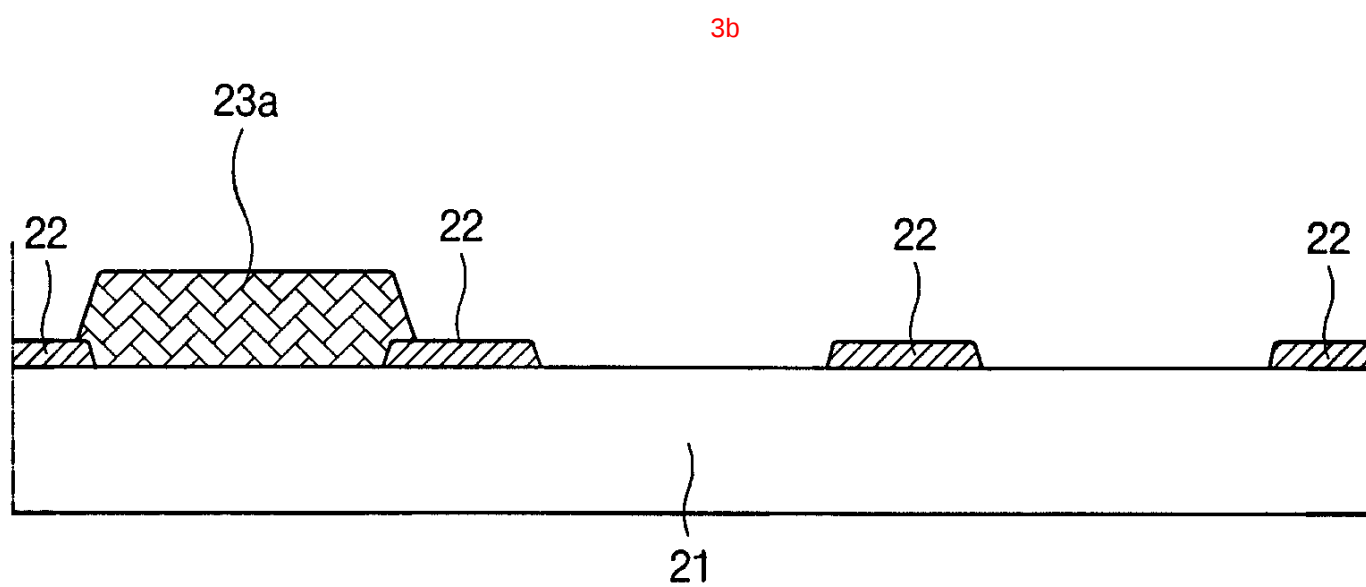
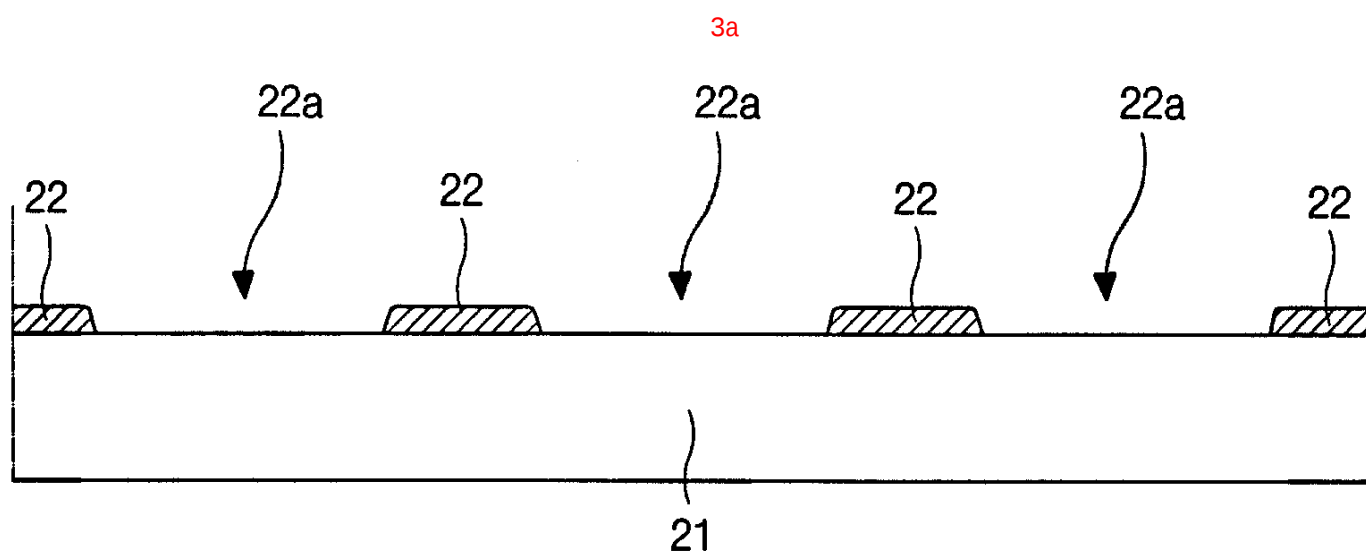
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1

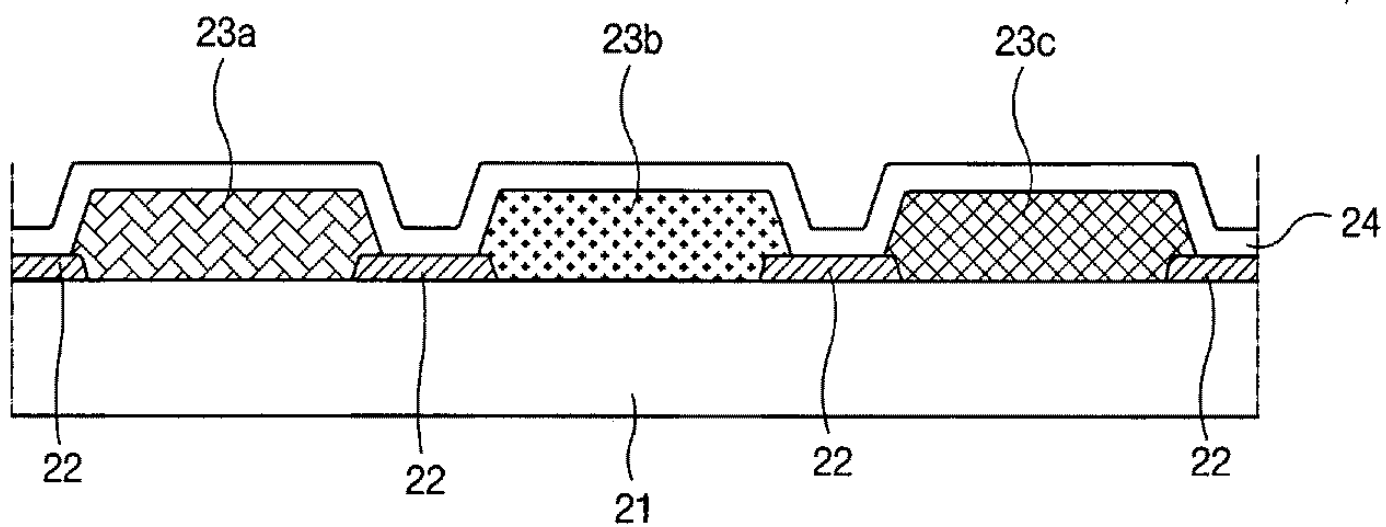


2

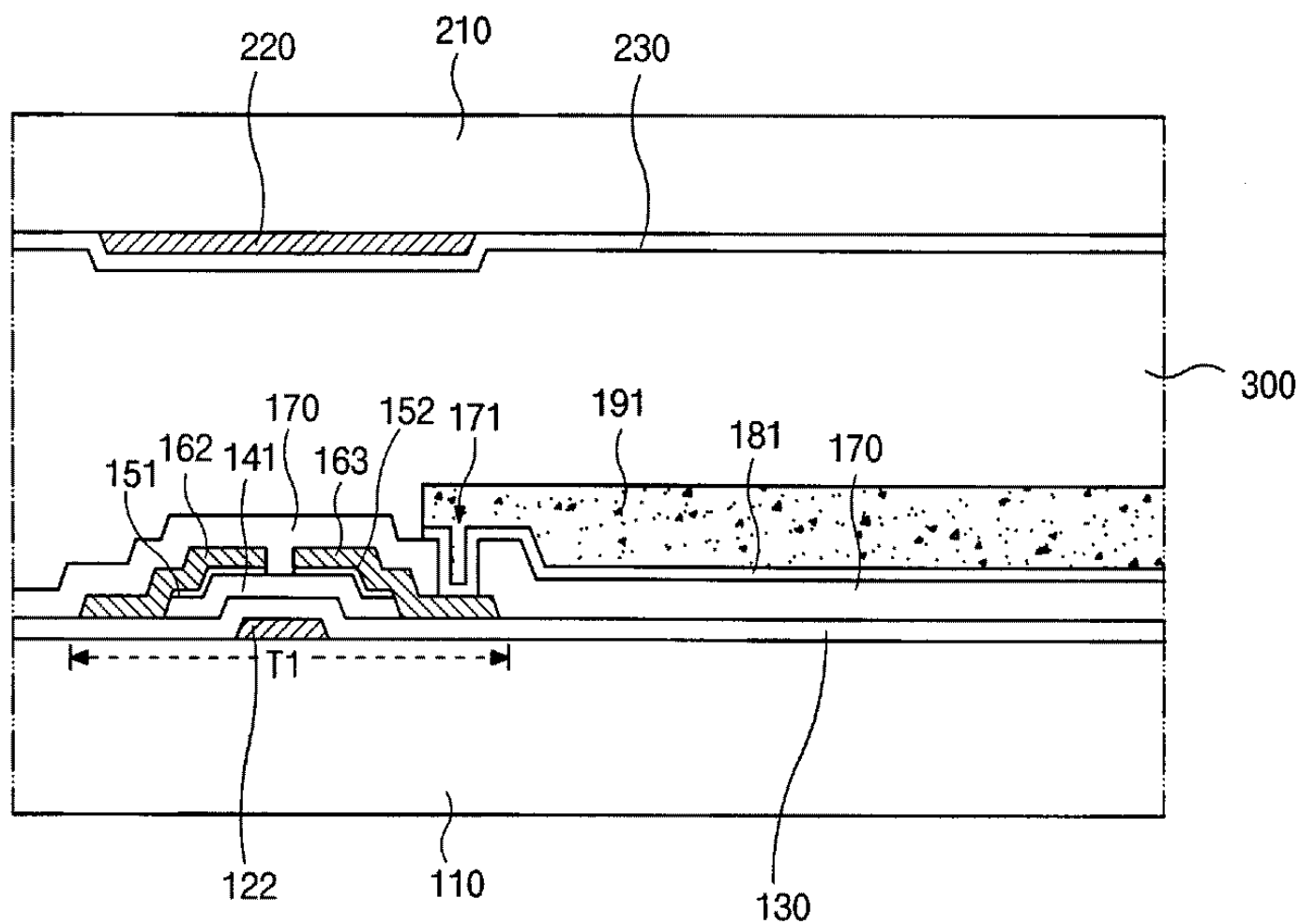




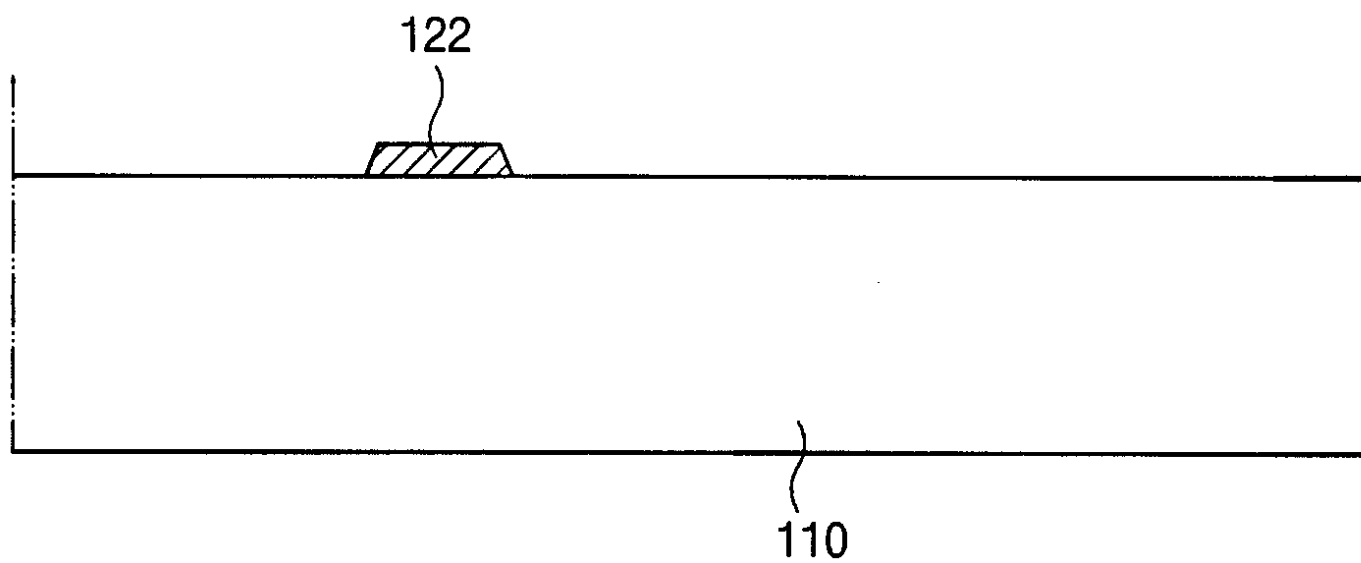
3d



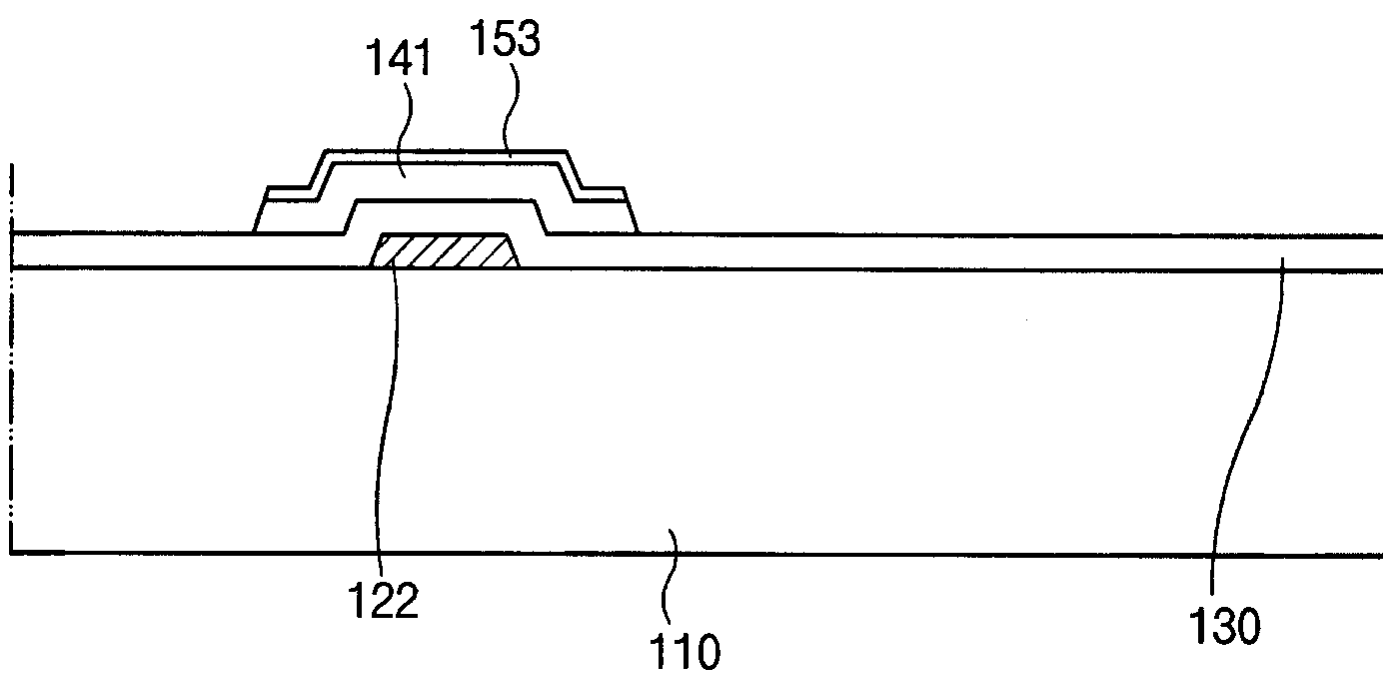
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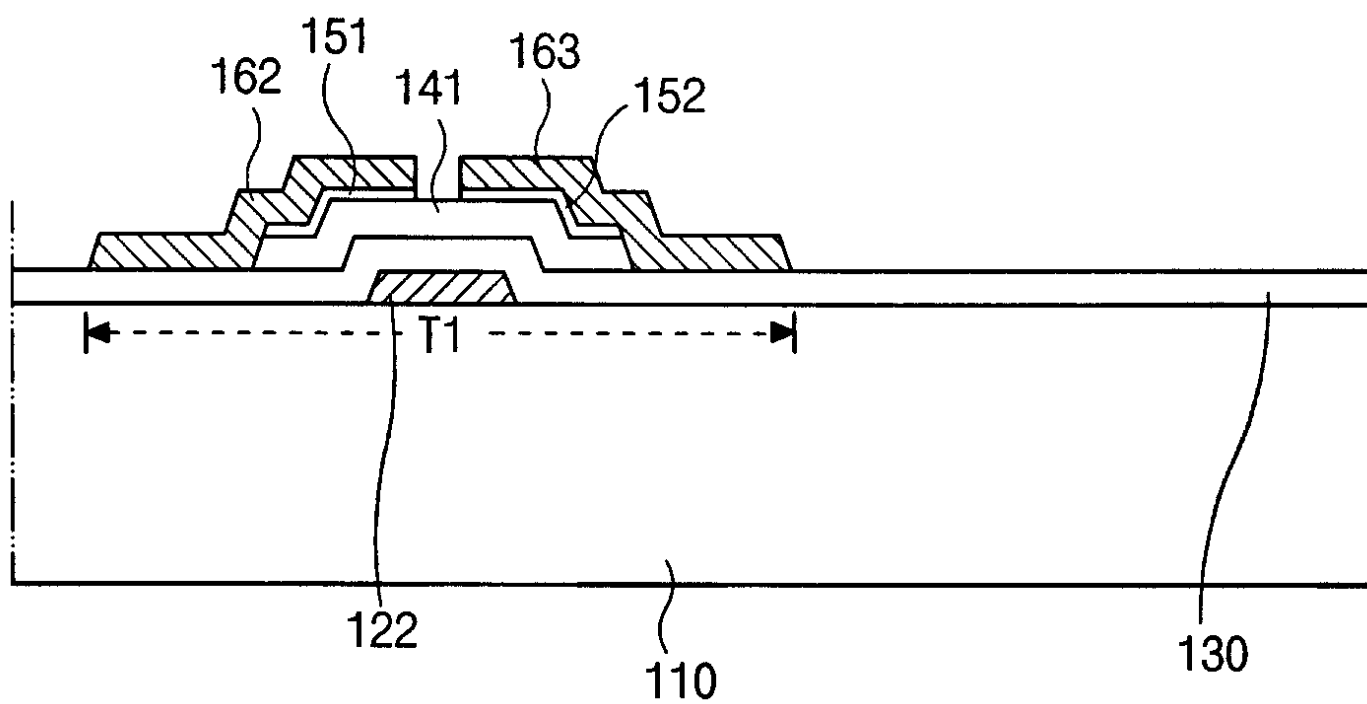
5a



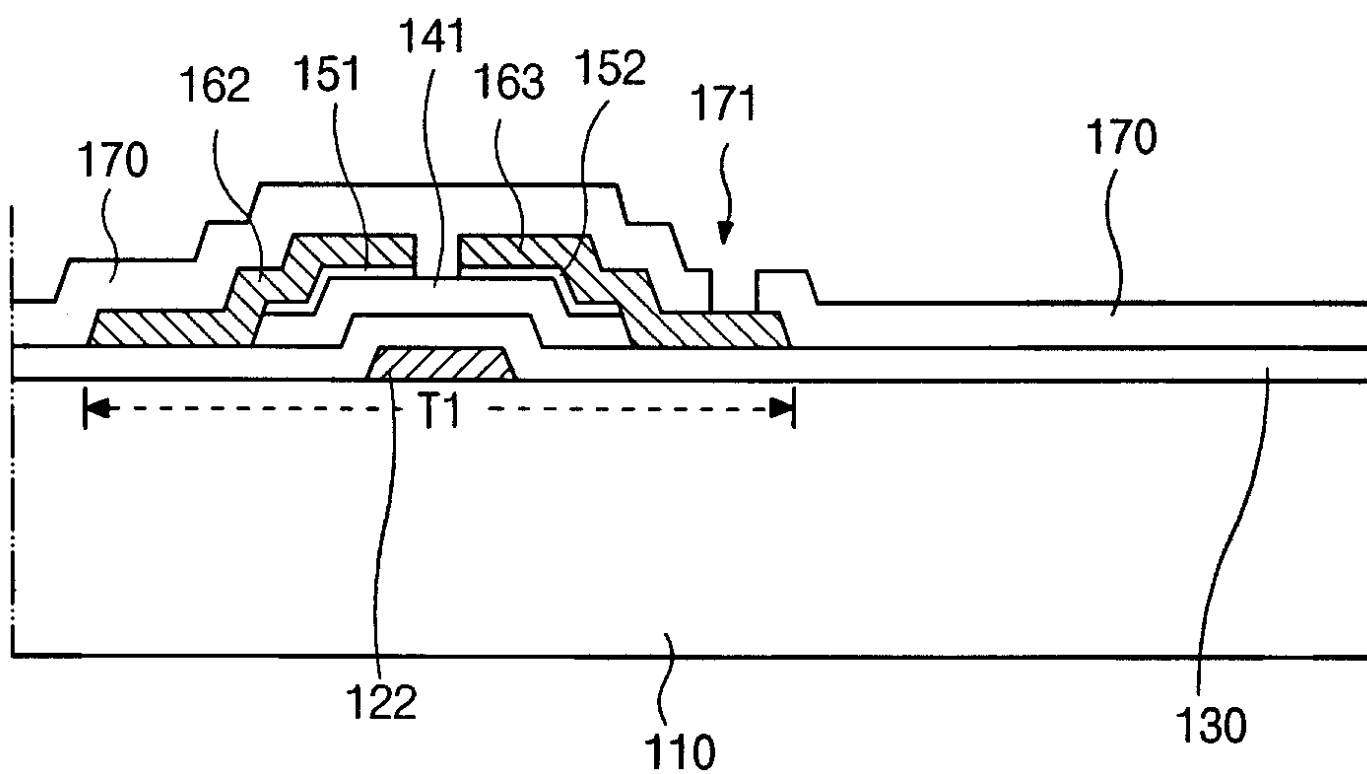
5b



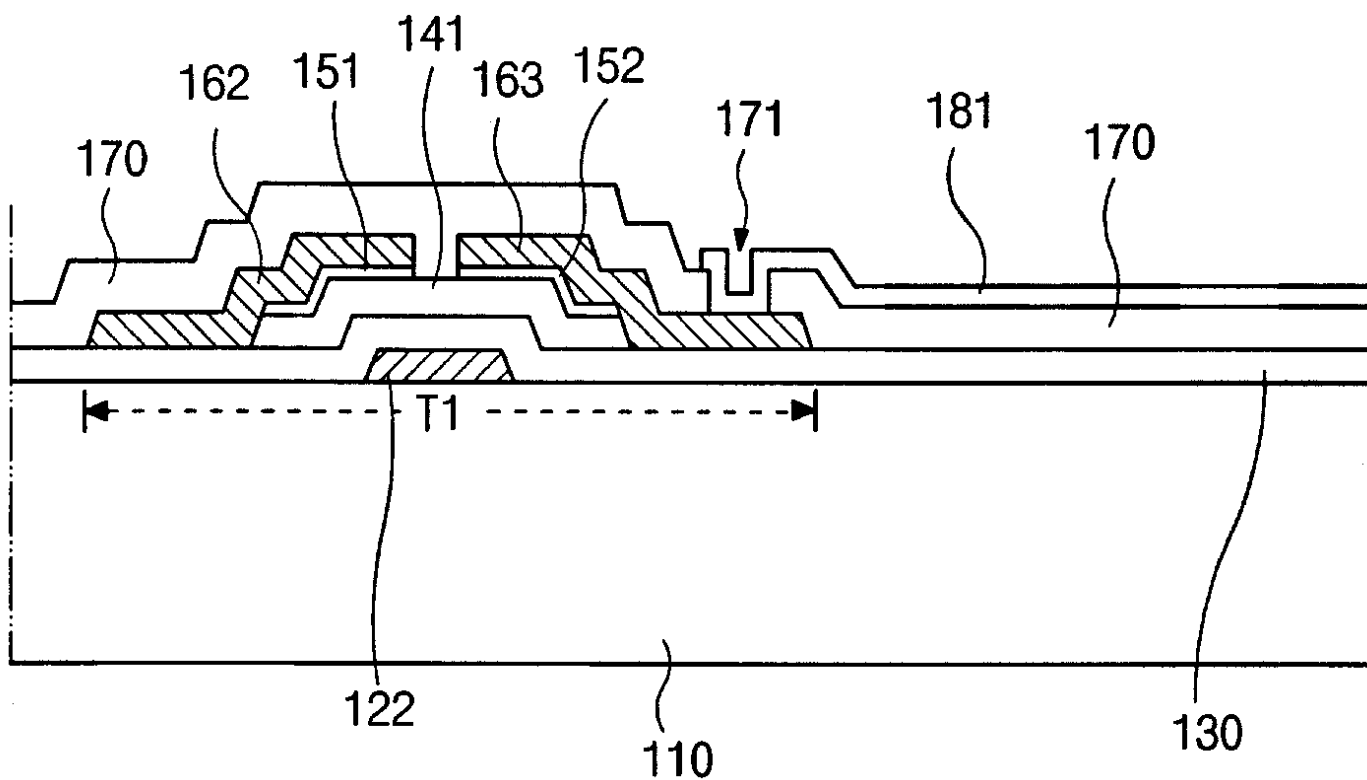
5c



5d

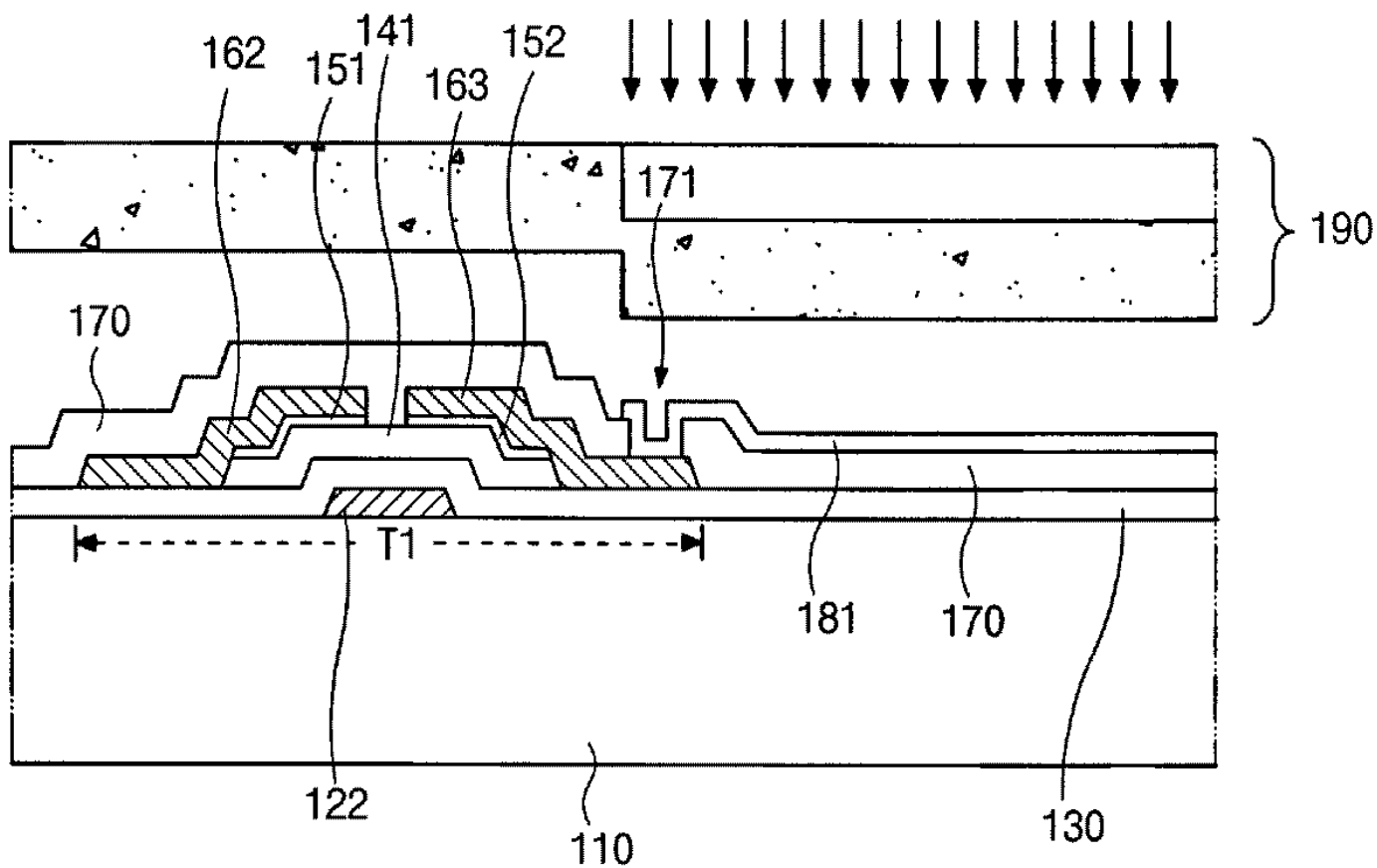


5e

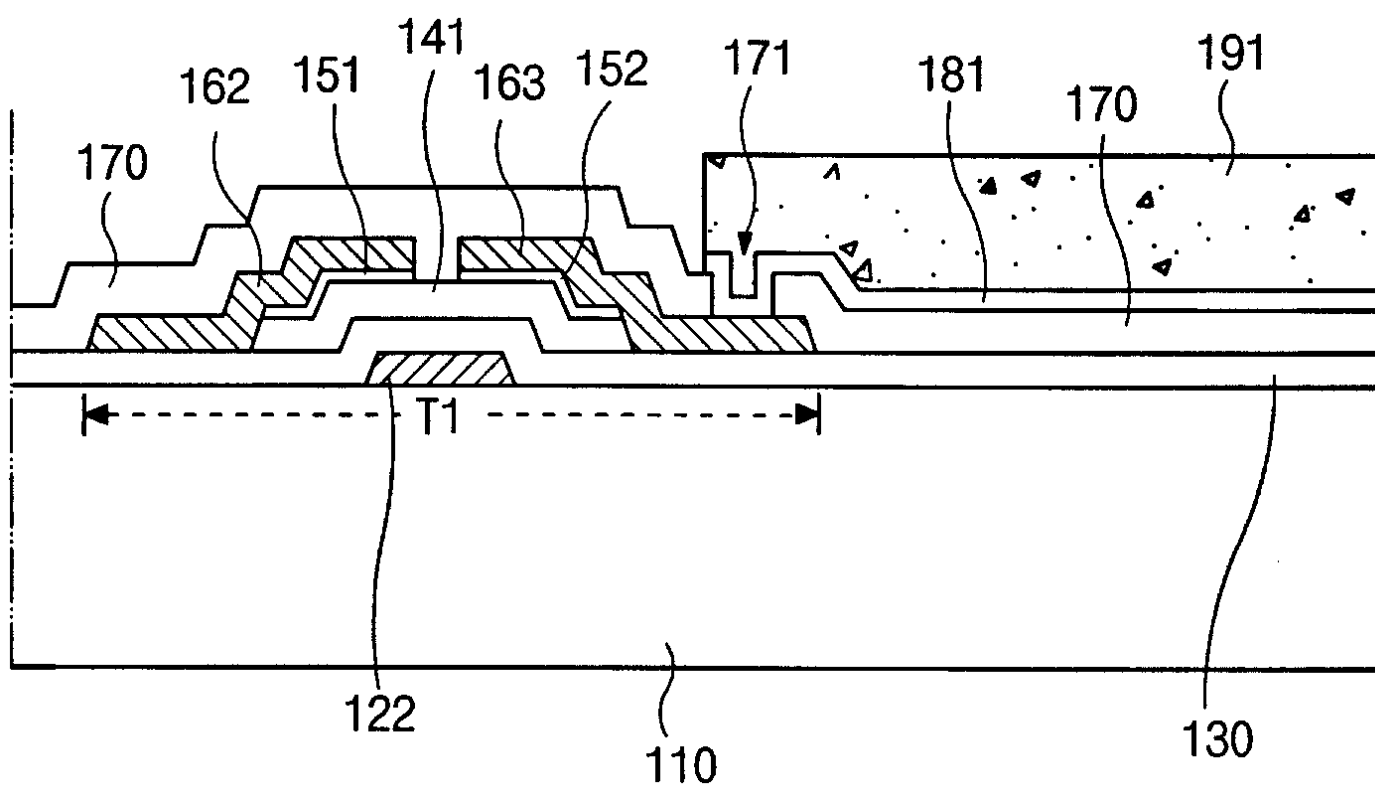


5f

레이저빔



5g



专利名称(译)	一种用于液晶显示器的阵列基板		
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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	JEONG YOUNGSIK 정영식 JUN JAEHONG 전재홍		
发明人	정영식 전재홍		
IPC分类号	G02F1/133		
代理人(译)	贞媛KI		

摘要(译)

本主题创新涉及用于包括该滤色器的液晶显示装置的阵列基板。在典型的液晶显示器的滤色器，并且该过程是复杂的，因此通过使用相同的方法和颜料分散法或染色，并且，在与滤色器和液晶显示器的像素电极的关联制备可能导致未对准在放置衬底的过程中有。如果黑色矩阵大大为了防止这种情况，液晶显示装置的开口率出现退化问题。在本发明中，通过使用其中用激光束照射光敏膜的热转印方法在薄膜晶体管上形成滤色器，并且在阵列基板上形成滤色器，可以减少滤色器的制造过程，可以防止显示装置的孔径比降低。图5f 指数方面 滤色片，热转印，孔径比，COT，未对准 - 1 -

