

(19)
(12)

(KR)
(A)

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G02F 1/13

(11)
(43)

2002 - 0040695
2002 05 30

(21)
(22)

10 - 2002 - 0009424
2002 02 22

(71) ()

2 1337 - 31 18

(72) 111 - 300

518 104 904

1333 1 713

700 - 1(1/18) 112 402

(74)

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(54)

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(41) (42) (43)

(41) (44) .

6

, TFT, LCD, , , , , ,

1

2a

2b

3

4

5 2a

6

7

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< >

15), (10), TFT (11), (12), (13), (14), RGB (15), (20), (30), (41), (42), (43), (44), (50), (60), 1 (61), 1 / (62), (70), 2 (71), 2 / (72), (73), (80), (81, 81'), (63, 73), (64,74,82), (51), (91), (92), (93), (94), (110), (111), (112), (112 - G), (112 - D), (112 - S), (112 - P), (113), (113 - G), (113 - D), (113 - S), 1 (114), 2 (115), (113 - sh), (141), (142), (143), (144)

(backlight)

(light sensing part)

(switching par

t) (storage capacitor)

TFT

가 (10 - 2001 - 0031067). 가

(20), (10), 1 (30) 가

2a TFT (11), (12), (1 (13) R, G, B (15) 3)

(13) 2b (14) (144) (141) 가 (142) (144) (141) (143)

3 (thin film transistor, TFT)

a - Si:H

3 (110) (111) (112) (11 (111) L (110) (112) (112 - S) (113) (113 - D) 1 (114) (112) (112) (112 - G) 2 (115) (a - Si:H) (112 - P) (112 - D) (112 - S) (110) (111) (2b) (L) (112) (112 - P) (112)가 (113) (113 - G) 가 (112) (110) (113) (113 - sh) (113 - D) (112 - S)

2a 3

1

(10)

1

가

(30)

(10)

(20)

(20)

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(20)

(10)

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(20)

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가 .

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() 가

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ITO

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가 ,

가 .

가 (fabrication) ,

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4

(13)

4

(41)

(42)

(43)

(41)

(44)

가

;
;

,

1 , 1 , 1

2 , 2 , 2

가

가 ,

1

가

가

1

, 5 2a
 (80)가 (50) (60) (70)
 (62) , (70) 2 (71) 2 / (60) 1 (61) 1 /
 73) (72) (70) ((80) (81, 81')
 , " 63" " 73" a - Si:H , " 64" , " 74" , " 82"
 , " 51"

6 1 , 5 가
 (141) (144) (142)

6 가 (144) (142)
 (80)가 6 (144) (60) (70)
 (144) 가 가 가

6 (141) ; (144) (142) (142)
 (60) (70) (80) (60) (70)
 (142) (80) (81, 81') (80)

, 6 (144)
 , (60) (70) (80) 가 가 . [(144)
 가 (60) (70)가 (142) (141) ; (144)
 (81, 81') (142) (142) , (80)
 , (144)
 (142) (142) . , 7 2 (144)
 6 , 7 1 2 가
 (144) (60) (61) (60) 가 .
 , 7 (60) 1 (73) , 7 2 6 (71)
 (70) (73)
 7 (144) , 6
 6 (144)
 7 (144)
 (70) (80) , (60) 1 (61) (80) (60)
 (81, 81') (142) (141) (60), (70), (80) (80) (83)
 (60) (70) 가 (70) 2 (71)
 8 (91) (92) (93) (94)
 가

가

(57)

1.

;

2.

1 ,

1

2

3.

2 ,

4.

3 ,

가

5.

2

6.

5 ,

1

7.

8.

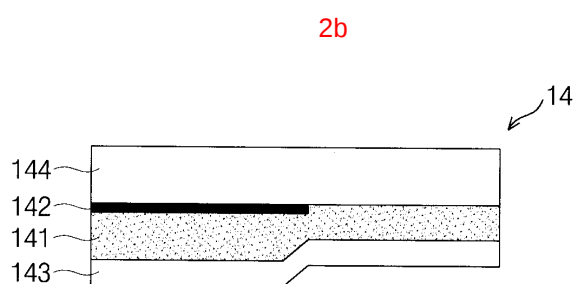
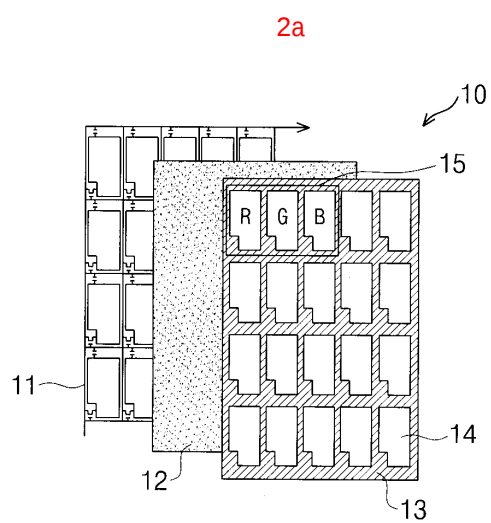
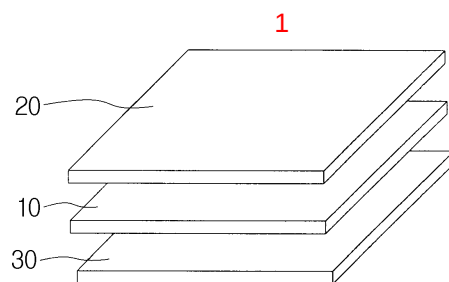
9.

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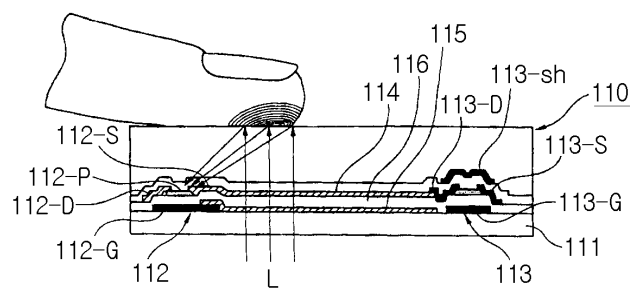
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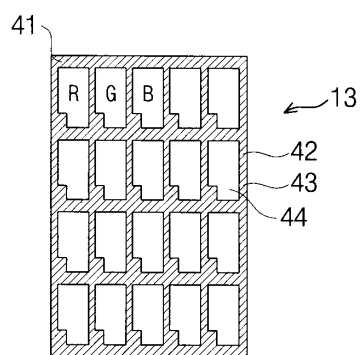
1



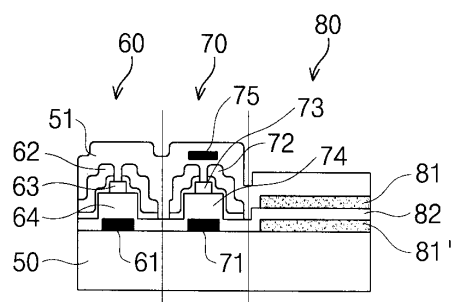
3



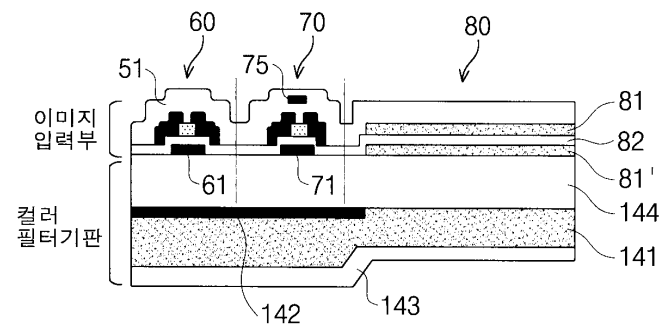
4



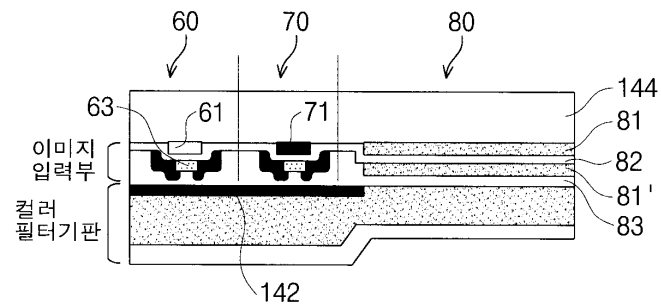
5



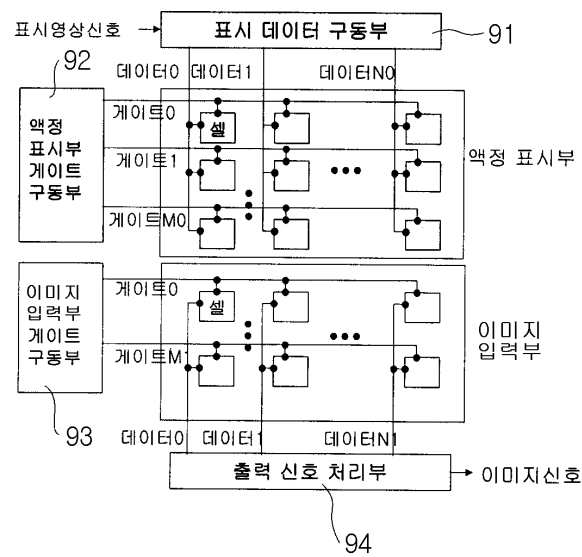
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专利名称(译)	具有图像输入部分的液晶显示面板		
公开(公告)号	KR1020020040695A	公开(公告)日	2002-05-30
申请号	KR1020020009424	申请日	2002-02-22
[标]申请(专利权)人(译)	NITGEN		
申请(专利权)人(译)	有限公司，针织禅		
当前申请(专利权)人(译)	有限公司，针织禅		
[标]发明人	JEON YONGSOO 전용수 MIN KYONGIL 민경일 SHIN SUNGHYU 신성휴 LEE DONGWON 이동원		
发明人	전용수 민경일 신성휴 이동원		
IPC分类号	G02F1/13 H01L31/09 H01L27/146 G06K9/00 G02F1/133		
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代理人(译)	PARK , SUNGMIN		
其他公开文献	KR100501070B1		
外部链接	Espacenet		

摘要(译)

本发明涉及用于形成并同时通过液晶和指纹等执行包括信息标记的图像输入的装置及其制造方法，作为本发明的LCD面板的滤色器基板中的直接图像获取部分涉及具有图像获取部分的LCD面板。具体地，图像获取部分的光感测部分（42）和切换单元（43）形成在黑矩阵（41）所在的区域内。电容器部分（44）围绕黑矩阵（41）所在的区域形成。指纹，TFT，LCD，液晶显示器，输入指纹，黑矩阵，滤色器，光感应部分，切换单元。

