

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

(51) . Int. Cl. 7 (11) 2002 - 0016073
G02F 1/136 (43) 2002 03 04

(21) 10 - 2000 - 0049200
(22) 2000 08 24

(71) .
,

$$(72) \quad 105 \quad 105$$

(74)

(54)

가

가

1 a b conventional organic BM(Black Matrix) on array

2 a b

3 a b

4

5

^ V

101, 301... 102, 302...

103, 303... 104, 304...

105, 305... 401...

, TV

가

, CRT

가

기

가

가

CRT

,

(pixel)

array

conventional

(black matrix) 가

organic BM(Black Matrix) on a

rray

conventional

organic BM on array

1 a b conventional

organic BM(Black Matrix) on array

1 , conventional (101) ,
 (102), (103), (104) .

, organic BM(Black Matrix) on array (102)
(105)가 .

(104) () ,

, 가 (104) , , 가 가

$$\begin{aligned}
 & , \quad 2 \quad & & (101), \quad & (102), \quad & (103), \quad & (104) \\
 & , \quad & (103) \quad & (103) \quad , \quad & (102) \\
 & (103) \quad & (2a) \quad .
 \end{aligned}$$

$$, \quad (102) \quad (201) \quad , \quad (201) \quad (103) \\ , \quad (104) \quad (2b) .$$

, (101) (102) (201) , (101)
 , (102) (201) (c) , (102)
 (201) (103) 가 (104) ,
 (102) (201) (103) (capacita
 nce) 가 (crosstalk) , 가

가

가

가

3 a b

3 a b , (301)
 302), (303) (304) (301) (302) (30)
 1) (a) .

가 (302) 가 (302) conventional (3a) ,
organic BM on array (3b)

(302) , , (304) (301)
(301) (302) (a) (301)

(a) , (302) (301)

organic BM on array (301) (302) (3b) (305) (305) (305) (305) .

, (305)가 , (301) , (302)
(s)가 , (305) (305)
(305) , .

, , (301) , (wet etch)
 , HF , HF NH₄F BO
 E

, , , (302) ,
 (302)

4 , , , ,
 (304) (301) (302) (401) (301)
 , (401) (304) (302) (401) (d) 가 ,
 (401) (303) (303) (303)

, 5 ,
 , , , ,
 03), (304) (303) (303) (301), (302), (302)

, (302) 가 , , , (304)
 (302) (303) (302) (301) (301)
 (s) 가 , (303) (303) (e) 가 , (302) (303)

, , , ,
 (302) (401) (301) (401) (304) (301) (301) 가
 , (401) (304) (302) (401) (303) (301) (d) , (303)

, , , ,
 , , , ,
 가

(57)

1.

가

2.

1

,

,

3.

1

2

,

,

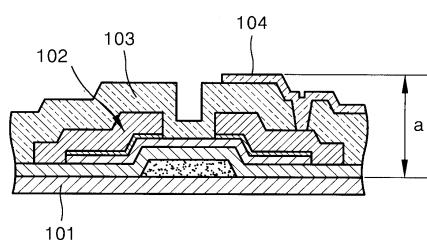
4.

1

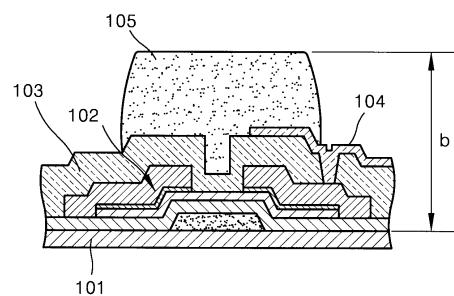
,

가

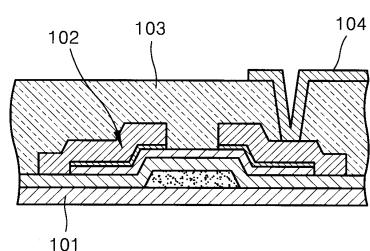
1a



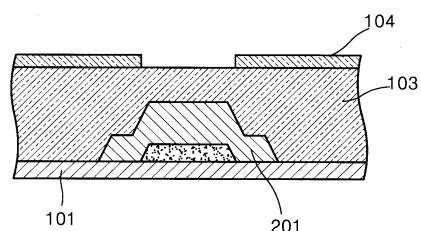
1b



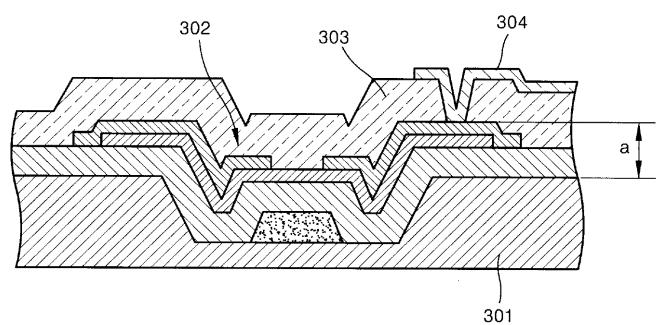
2a



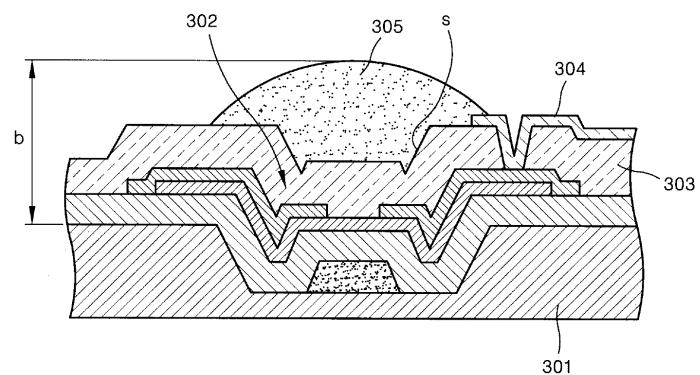
2b



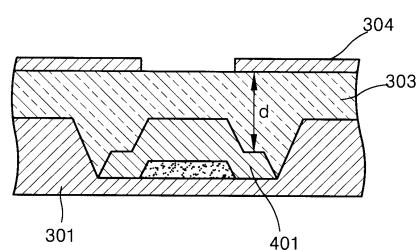
3a



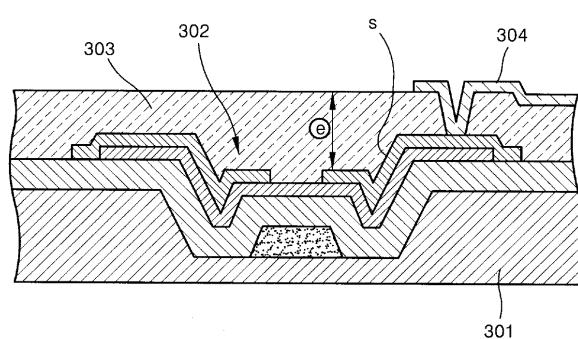
3b



4



5



专利名称(译)	液晶显示器		
公开(公告)号	KR1020020016073A	公开(公告)日	2002-03-04
申请号	KR1020000049200	申请日	2000-08-24
[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	KO BYUNGSOO 고병수		
发明人	고병수		
IPC分类号	G02F1/136		
外部链接	Espacenet		

摘要(译)

形成薄膜晶体管的部分的玻璃基板相对于液晶显示器形成较低，其中薄膜晶体管，以及绝缘层和像素电极连续地形成在其中液晶的玻璃基板上。根据本发明的显示器，支撑作用比其他部分和玻璃基板与薄膜晶体管之间的整体台阶高度减小。这里，相对较低形成的玻璃基板可能是在薄膜晶体管的栅极或数据布线部分中形成的。而且，相对较低的玻璃基板可能是通过湿法蚀刻形成的。本发明的优点在于减小了用于液晶显示器或数据布线部件的薄膜晶体管所具有的整体台阶高度。以这种方式，它可以防止摩擦被很好地组成并产生光照射的区域。相对地，可以通过增加绝缘层的厚度来防止像素之间的信号干扰。

