

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. 7
G02F 1/136

(11)
(43)

2002 - 0041288
2002 06 01

(21) 10 - 2001 - 0073367
(22) 2001 11 23

(30) JP - P - 2000 - 0035 2000 11 27 (JP)
9522

(71) 가 가
가 가 4 6

(72) 3550
2243 - 8

(74)
:

(54)

가

1 .
 2 가 .
 3 1 III - III .
 4 1 IV - IV .
 5 .
 6 5 VI - VI .
 7A , 7 B 7A b - b

8 .
 < >

SUB1, SUB2 : RST :

GL : DL :

GI : AS :

SD1 : SD2 :

PSV : ORI1 :

LC : PIX :

FIL : BM :

X y y X 가

, , , , .
 , , , , .
) () , 5 () 1 , 1 (2
 (5 - 19294).

, , 2
 가 .
 , 1 , 2 가 .
 가 () 가 .

, , , , .
 , , , , .
 , 가 .
 , , , , .
 , 가 .
 , , , , .
 , 가 .

, , 2 .
 , , , , .
 , 가 .
 , , , , .

1. (가)

2

가

2 (SUB 1) (SUB 1) (SUB 2)

(SUB 1) x y (GL)
(GL) y x (DL) AR

(GL) () (TFT) (P)
(TFT) (DL) ()가

(PIX) (GL) (GL) (TFT)가 (PIX)
(Cadd)가 (Cadd) ,

(PIX) (SUB 2)
(CT) ()

(GL) () SUB1
(DL) (SUB 1) (GDRC) (GTM)가 (SUB 1)
(DDRC) () (DTM)가

(GDRC, DDRC) 가 (SUB 1) COG()

(GDRC, DDRC) (SUB 1) (GTM)2, DTM2
가 (GTM)2, DTM2 (SUB 1) 가
(GTM 3, DTM 3)

(SUB 2) 가 (SUB 1)
(SUB 1)

(SUB 1) (SUB 2) (SUB 2) SL
, SL (SUB 1, SUB2)

()

1 (SUB 1) , 2 A

, 3 1 III - III ((SUB 2)), 4 1 IV - I
V

1 (GL)가 (SUB 1) x y
 (GL) (RST) (DL)
 (GL) (RST) (GL)
 (GI)가 (GL), (RST) (SUB 1) SiN (GL)
 (Cadd) (3, 4) (GI) (DL)
 (TFT) 가
 (GL) a-Si i (:
 (AS)
 MIS (TFT)
 DL) (TFT) (SD 1) (SD 2) (GI) (
 DL) y (GL) x (DL) (RST) (
 (DL) (AS)
 (TFT) (SD 2)
 PIX (SD 2) (SD 1)가 (SD 1) 가
 (SD 2), (SD 1) (AS)
 (SD 1) (AS) (SD 2)
 가
 (DL) (SD 2, SDI) (SUB 1)
 (DL) SiN (PSV) (3, 4).
 (PSV) (TFT)
 (TFT) (SD 1) CH가
 (PSV) , ITO(Indium - Tin - Oxide)
 (PIX)

PIX (SD 1) (PSV) (CH) (TFT)

1) 가 (PIX) (SUB 1) (PIX) (ORI
 (ORI1) (LC) (ORI1) (LC) 가
 (SUB 1) (LC) (POL1)
 (SUB 2) (BM)가
 (BM) (TFT)

가 가 (BM) ()
 가 (FIL)가
 (FIL) , y 가 x
 (R), (G), (B) 가
 (BM) (FIL)가 (SUB 2) (BM)
 (FIL) 가 (OC)가 (BM)
 (OC) ITO (CT)가
 (CT) (PIX) ()
 (LC) (POL1) (POL

2) 가 (CT)가 (SUB 2) (CT) (ORI2)
 (ORI2) (ORI2) (LC) 가
 (SUB 2) (LC) (POL2)

가 5 (DL)

6 가 (DL) (RST) (GI)
 (5 VI - VI
 (DL)
 (DL) (RST)

, , 2

(RST) (DL)

가 () (DL)

2.

7A 7B , 7A
7B 7A b - b

1, 3, 4 가

1, 3, 4 (GI) (DL)
(AS)

(AS) (TFT) (AS)
(DL) (GL) (GI)

1, 3, 4 (GI) (DL)
(RST)

(DL) (RST) (IL)
(IL) (SUB 2) (BM) 가
(IL) (BM) 가

(IL) ST 가 (IL)
(RST)

(IL) (RST) (IL)
(DL) (IL) PIX

3.

1 가 (GL)

8 SUB1 (CT)가 PX가
y) ()

B 1) PX (CT) 가 (SU)

2 가 PX (CT) 가

가

(57)

1.

가

2.

1

가

3.

2

4.

,

,

,

,

가

,

,

가

,

,

,

가

,

가

가

.

5.

4

,

,

.

6.

,

,

,

,

가

,

,

가

,

,

,

가

,

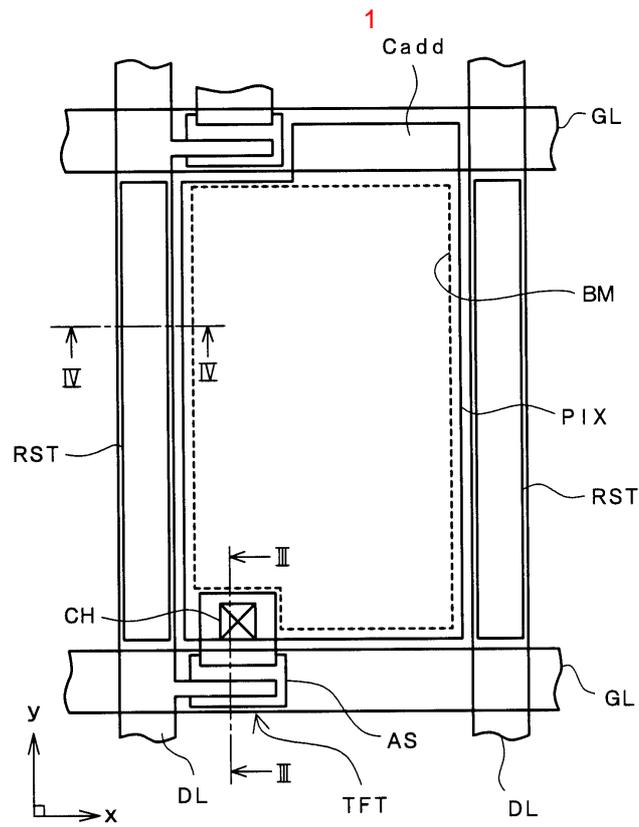
가

,

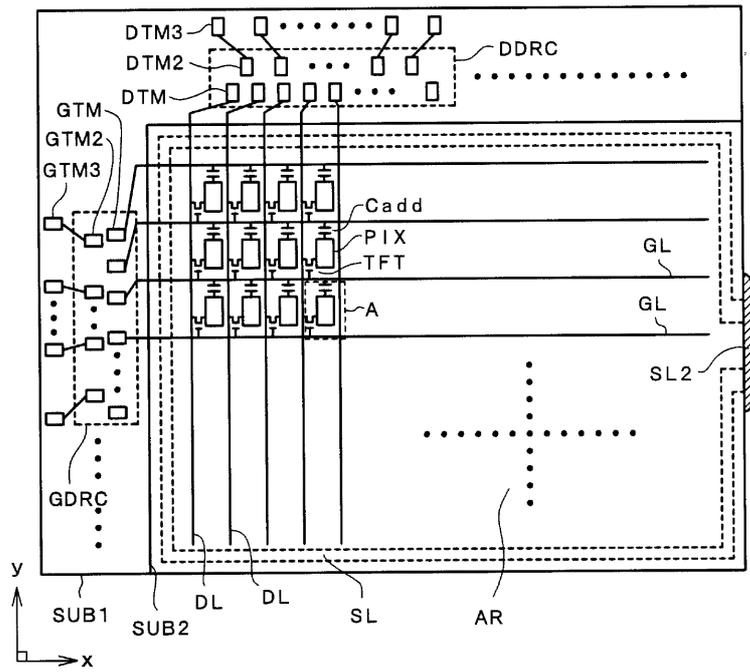
가 ,

7.

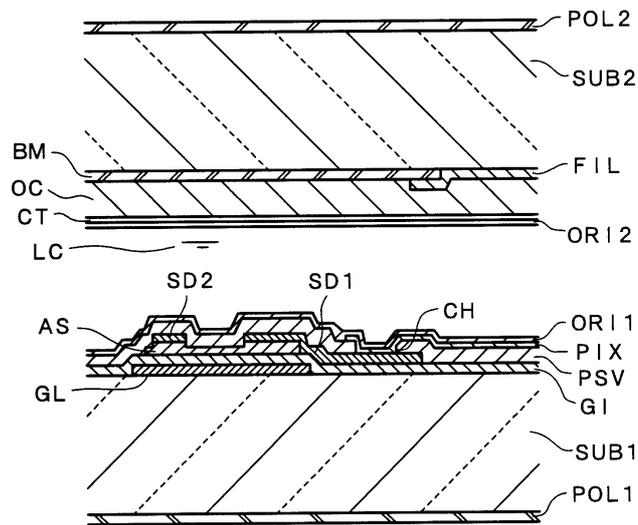
6 ,



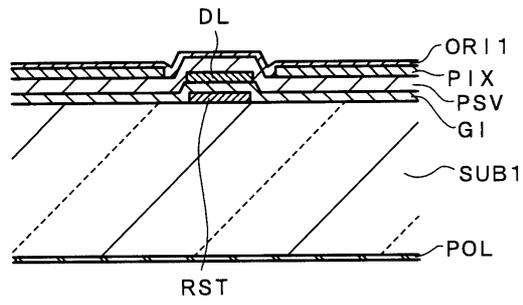
2



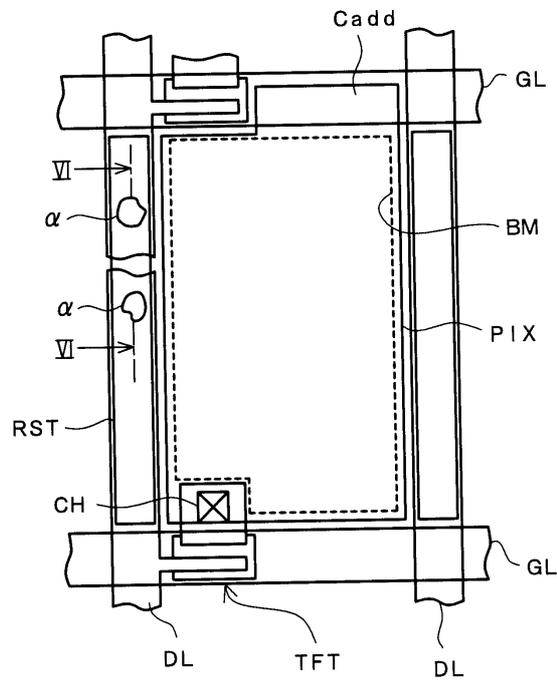
3



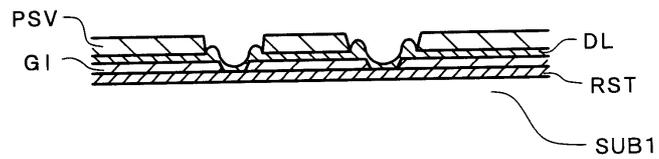
4



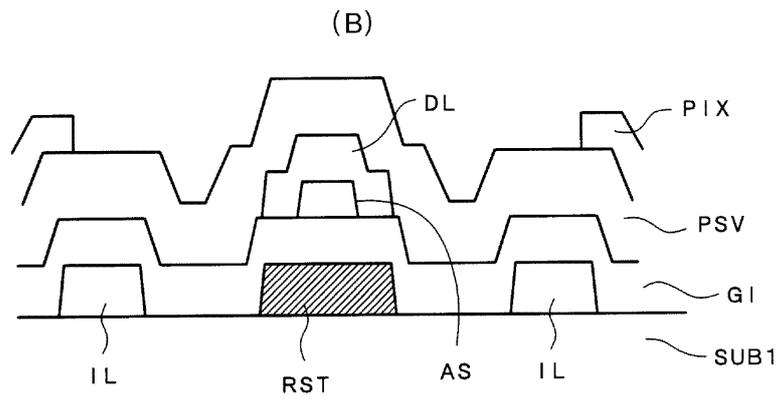
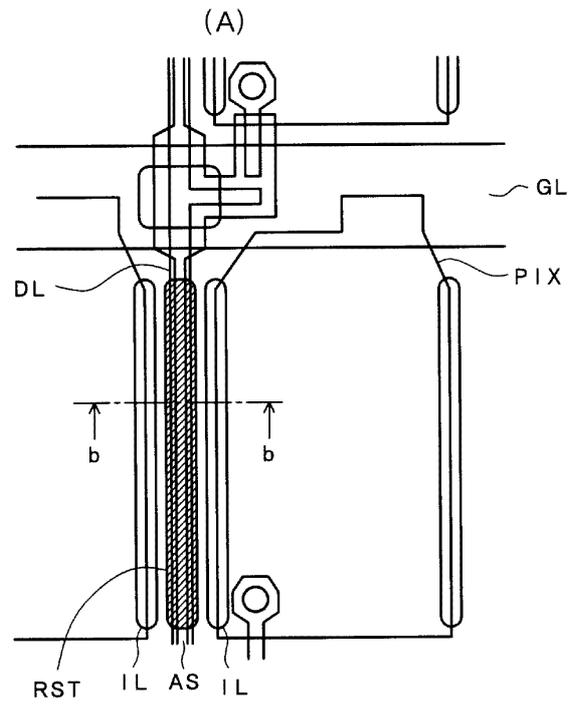
5



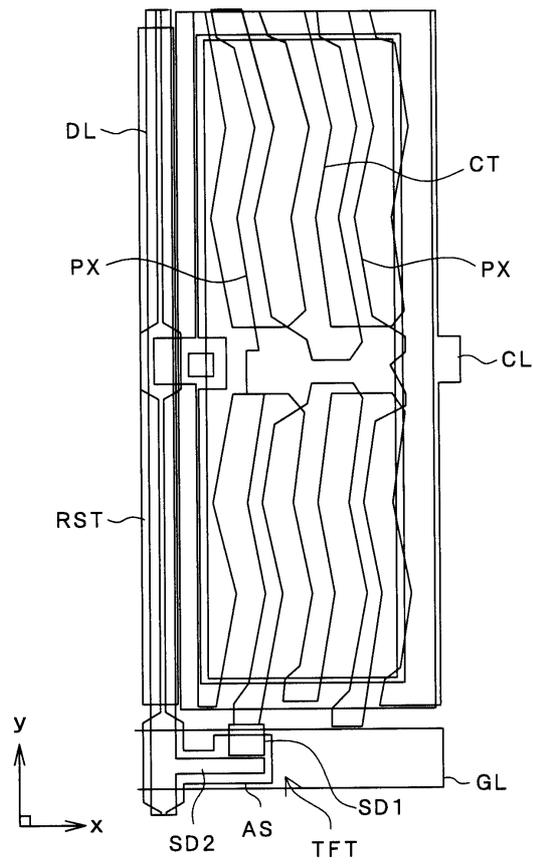
6



7



8



专利名称(译)	液晶显示器		
公开(公告)号	KR1020020041288A	公开(公告)日	2002-06-01
申请号	KR1020010073367	申请日	2001-11-23
[标]申请(专利权)人(译)	日立HITACHI SEISAKUSHODBA		
申请(专利权)人(译)	株式会社日立制作所		
当前申请(专利权)人(译)	株式会社日立制作所		
[标]发明人	HASHIMOTO YUICHI 하시모토유이찌 KASAI TSUTOMU 카사이츠토무		
发明人	하시모토유이찌 카사이츠토무		
IPC分类号	G02F1/136 G02F1/1362 G09F9/30 H01L21/3205 H01L23/52 H01L29/786 G02F1/1368		
CPC分类号	G09G2330/08 G02F1/136259 G09G2300/0439 G02F2001/136272 G02F2001/136263 G09G2300/0426 G02F1/136209		
代理人(译)	李钟IL		
优先权	2000359522 2000-11-27 JP		
其他公开文献	KR100504228B1		
外部链接	Espacenet		

摘要(译)

目的：轻松恢复排水管。组成：由相邻的栅极信号线和相邻的漏极信号线包围的区域是在各个基板的一侧的基板的液晶侧表面上的像素区域，其设置成与液晶相对，并且开关元件与开关元件相对。在该像素区域中设置有来自一侧的栅极信号线的扫描信号和从一侧的漏极信号线经由开关元件向其提供视频信号的像素电极，并且在像素区域中形成用于恢复的导电层，其与漏极信号线重叠并具有绝缘膜。

