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(22)

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136 - 1

(72)

699 - 7 3 301 1403

77 - 44

(74)

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(54)

FFS(Fringe Field Switch) - (Liquid Crystal Display Device;LCD)

.

2 ITO(Indium Tin Oxide) TFT(Thin Film Transistor) , 1

, TFT / (S/D) 2 ITO TFT ITO , TFT

S/D .

2

1 FFS ,

2 1 ,

3 2 1 ,
 4 3 ,
 5 2 ,
 6 3 ,
 7 6 3 ,
 8 4 .

* *

30: , 32: ,

34: 1 ITO, 40: ,

42: , 44: ,

48: / .

stal Display Device;LCD) , FFS(Fringe Field Switch) - (Liquid Cry

가 FFS LCD가 .

1 FFS LCD , (10) (Storage)
 1 ITO(Indium Tin Oxide) (12) , LCD
 TFT(Thin Film Transistor) (14)가 , TFT (14)
 가 가 (16) .

, FFS LCD 1 ITO (12) 2 ITO
 (18) , TFT (14) 가 (20)
 (12) (22) .

FFS LCD (12) 2 ITO (,)(18)

, FFS IPS TN TFT - LCD

, FFS LCD BCE TFT (5 -) BOE, ITO (Attack)

, , FFS / ITO

n+ TFT

TFT(Thin Film Transistor)

1 2 ITO(Indium Tin Oxide)

(S/D) TFT 2 ITO ITO , TFT S/D TFT /

가

ITO TFT /

, TFT S/D

TFT S/D ITO

, TFT S/D TFT / (S/D) 2 ITO ITO /

, TFT S/D ITO

, TFT S/D ITO

2 1 , 3 2

1 , 4 1

, (30) (32)가 1 ITO(34) (36)

(38)

, TFT (A) (38) (40) (42a)

2 ITO(42)가

, 2 ITO(42) (B) (C) (44)

, (46) , TFT (A) / (48)

1 / (48) /

ITO / n+

, (42a) TFT (A)

, / (48) ITO 가 .

, ITO , .

, / (48) (42a) 가 가 .

5 2 , TFT
(A) (Floating) / 가 가 .

6 3 , 7 6 .

FT (A) - TFT (A) (42a') / ITO T
(On - current) .

8 4 , .

가 , , 2 ITO 가 .

, TFT ITO S/D S/D TFT , 가
FFS 가 .

, , ITO , .

(57)

1.

m Tin Oxide) TFT (Thin Film Transistor) , 1 2 ITO (Indium
TFT , TFT

TFT / (S/D) 2 ITO ITO ,

TFT S/D .

2.

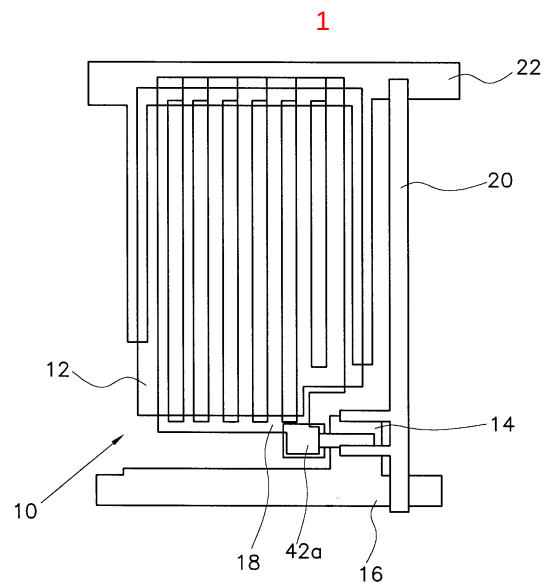
1, ITO TFT /

3.

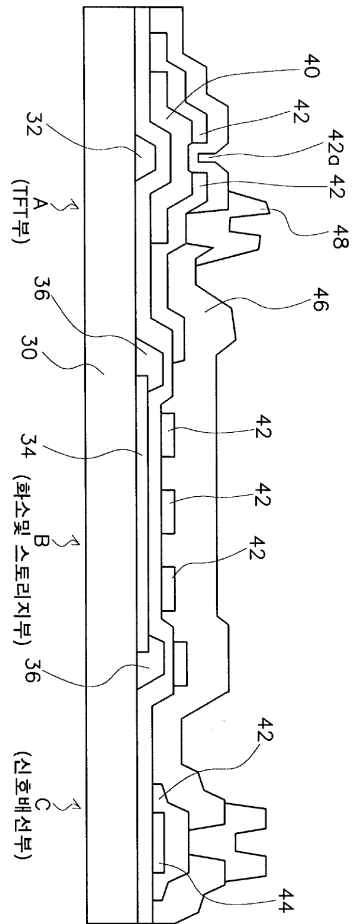
1, TFT S/D

4.

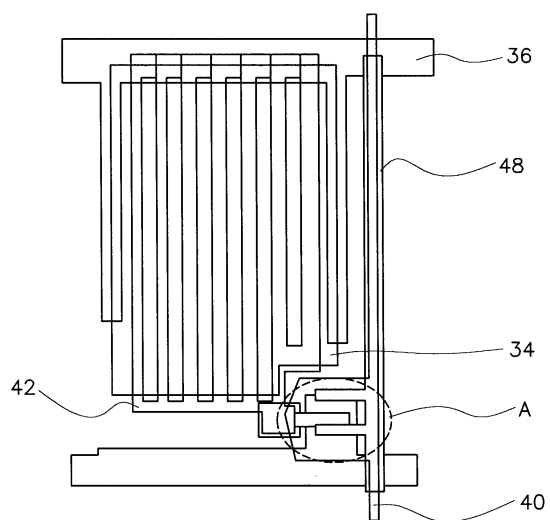
1, TFT S/D ITO



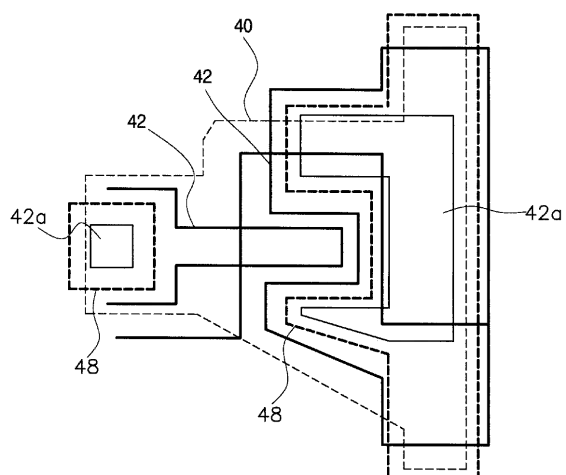
2



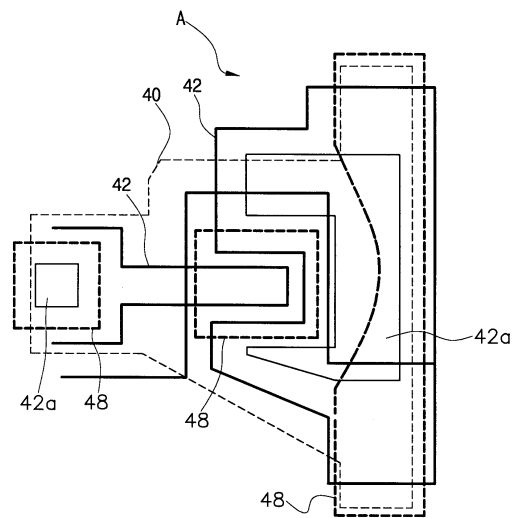
3



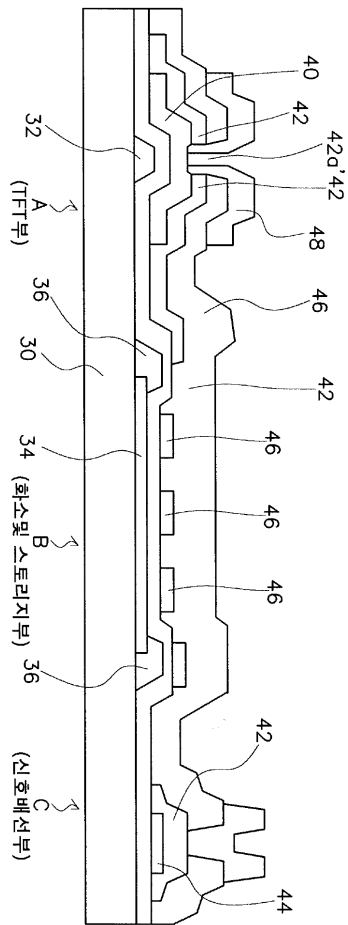
4



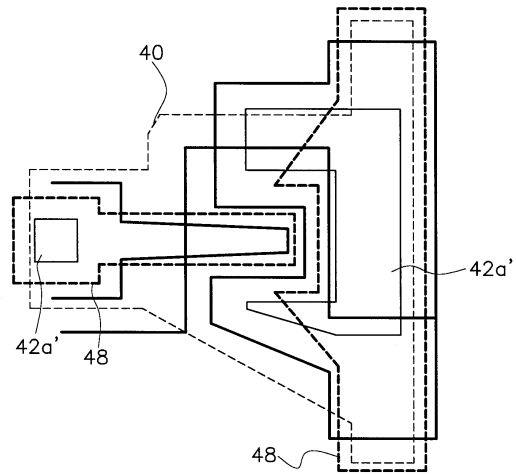
5



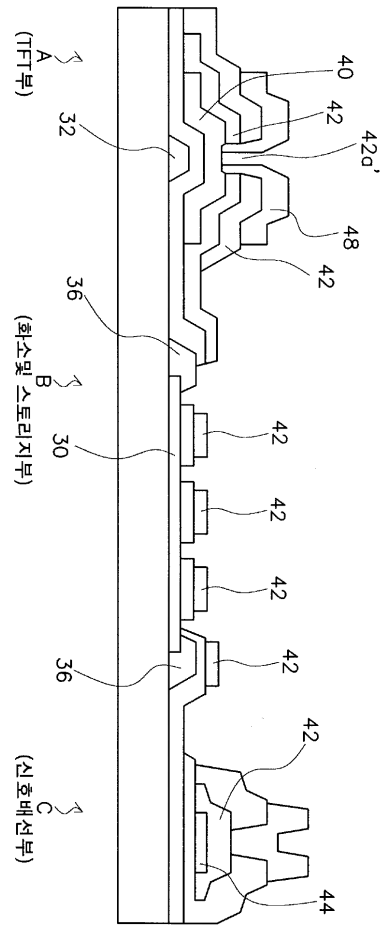
9



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专利名称(译)	液晶显示器		
公开(公告)号	KR1020020044287A	公开(公告)日	2002-06-15
申请号	KR1020000073312	申请日	2000-12-05
[标]申请(专利权)人(译)	HYDIS TECH HYDIS技术有限公司		
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[标]发明人	LEE KYUNGHA 이경하 KIM JEONGGEUN 김정근		
发明人	이경하 김정근		
IPC分类号	G02F1/136		
其他公开文献	KR100658071B1		
外部链接	Espacenet		

摘要(译)

液晶显示装置技术领域[0001]本发明涉及一种能够防止信号线短路并改善FFS(边缘场开关)模式液晶显示装置(LCD)中的余像特性的液晶显示(LCD)装置。根据本发明,提供了一种TFT(薄膜晶体管)部分作为开关元件,像素和存储部分,包括形成为存储和公共电极的第一和第二ITO(氧化铟锡),并且TFT部分的源极/漏极(S/D)由用于形成第二ITO的ITO形成,并且在形成TFT部分的接触孔时形成S/D金属层。2

