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103,203,303 : 105,205,305 :

117,217,317 : 119,219,319 :

122,222,322 : 124,224,324 :

140,240,340 :

(Mobile Phone), PDA, 가
 (Flat Panel Display Device) 가
 LCD(Liquid Crystal Display), PDP(Plasma Display Panel), FED(Field Emission Display), VFD(Vacuum
 Fluorescent Display)
 (LCD)가

가 TN 가 TN
 가 가 가
 (refractive anisotropy) 가 가

(wide viewing angle characteristic)
 (In Plane Switching Mode)
 가
 가 IPS

1

2

(10)가 (3) 가 가 (10) (3) (5) (5) (11)
 가 (3) 가 가 (11) , (12) (12) (4)
 가 가 가 (13) (14) (17) (19)
 (17) (5) (18)

(1)가 (19)가 (17) (19)

(1)가

2 IPS 2(a) I-I' 1 (20)
2(b) IPS II-II' 2(a) (22) (14)

(11) (12) (13) (14)

(22) 1 (20) (passivation layer;24)

2 (30) (32) (34) (32) 가
(,) (34) R(Red), B(Blue), G(Gree
n)

1 (20) 2 (30) (40) (1)

2(b) (17) 1 (20) (19) (19) (2
(17) (19))

IPS 가 , TN(Twisted Nematic)
가

, TN ITO(Indium Tin Oxide)

, IPS TN 가

IPS TN
()
IPS
2 ()
IPS
3 3(a) III-III' IPS 3(a) 3(b)
() 2
3(a) (112), (113) (103) (114) (105) (110)가 (111),
(119) (105) (117) (117) (1
05) 2 (,)
3(b) (119) (124) (105) (122) (117) (105) (117)
124) (122) (124) NiOx SiOx (124)
(105) (117) (coupling capacitance)가
(117) (119) (photoacryl) (1
24) BCB(Benzo-Cyclo-Butene) 가
(117) (105) (t1 t2). ()
105) (119) 가
3(a) (110) (114) (124) (contact hol
e;115) (124) (119) (115) (110)
(114) 가 (119) 가
(117) (118) (118) 1 (120) (124) (118) 1
(120) (117) (122) (118) ()
4 IPS 3 IPS
IPS
(224) (222) (205) (219) (224)
(205) (205) (217) (217) (205) 가 가
(205) (219)
IPS 3 IPS 가
IPS
(205) (219) (222) IPS (217) (224)

. 3 IPS IPS
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) , IPS 가 (()
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 , 3 4 IPS 2
 . 2 IPS 1 2 2
 , 2 IPS
 , IPS 가 가 , 4
 5 6 , IPS IPS
 4 IPS
 5 , 4 IPS (317) (319)
 4 , 3 (317) 2 (319)
 2 (305) (317) 2 (31
 9) IPS ,
 (305) ,
 가 가 ,
 가 2 ,

(57)

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BCB(Benzo - Cyclo - Butene)

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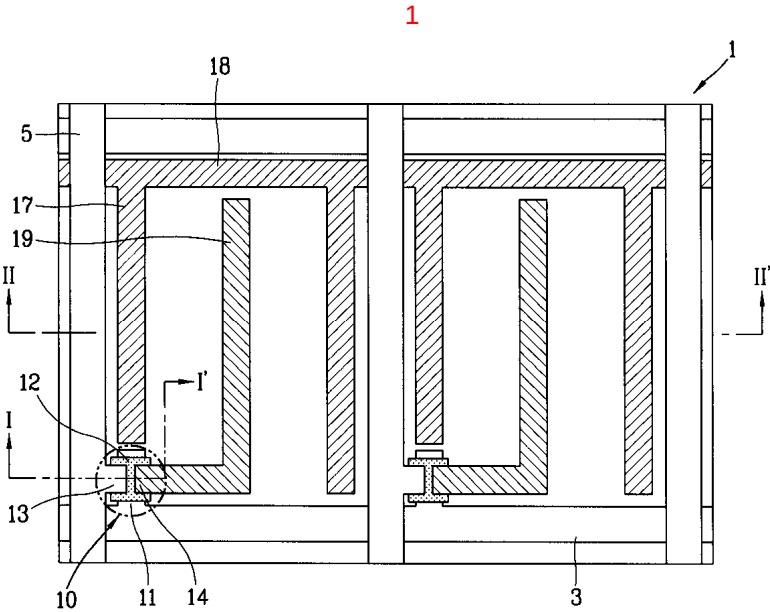
14 ,

BCB(Benzo - Cyclo - Butene)

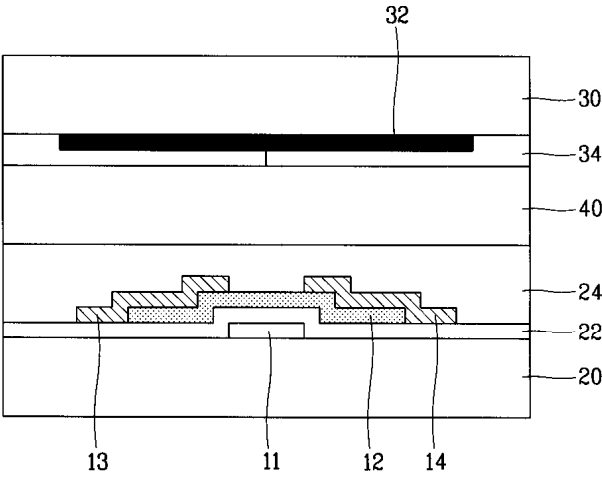
16.

13 ,

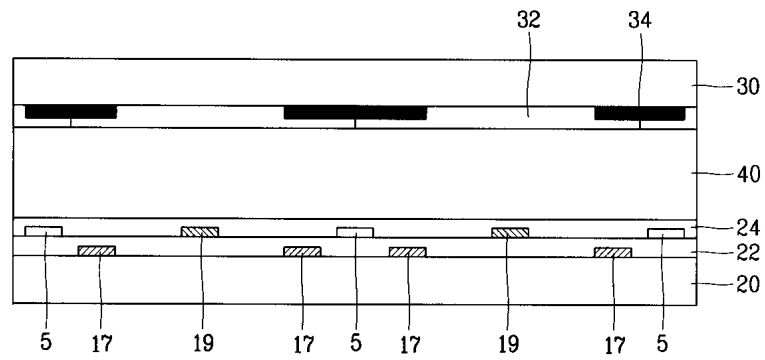
가



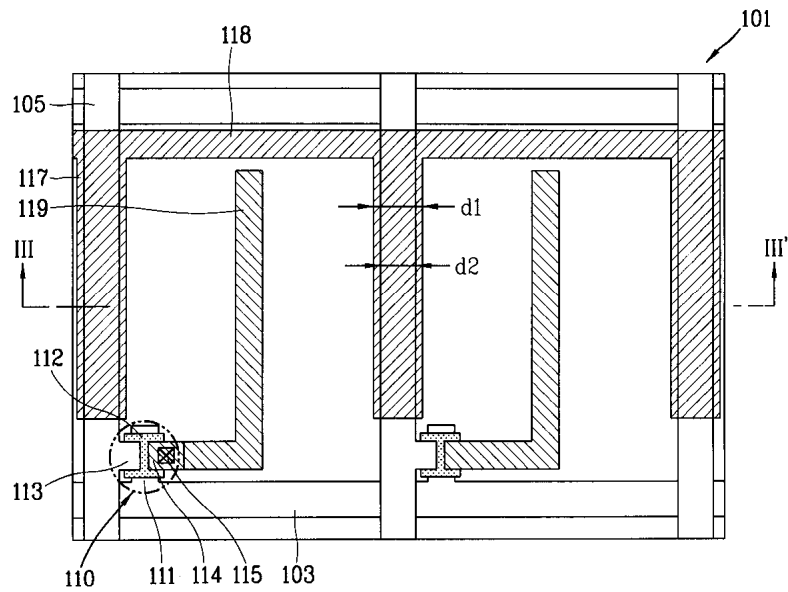
2a



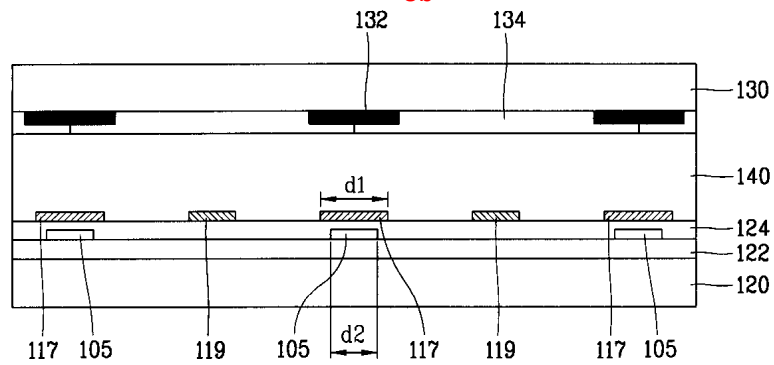
2b



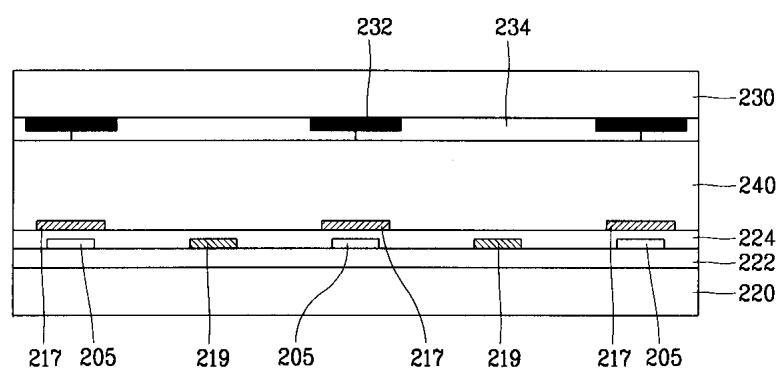
3a

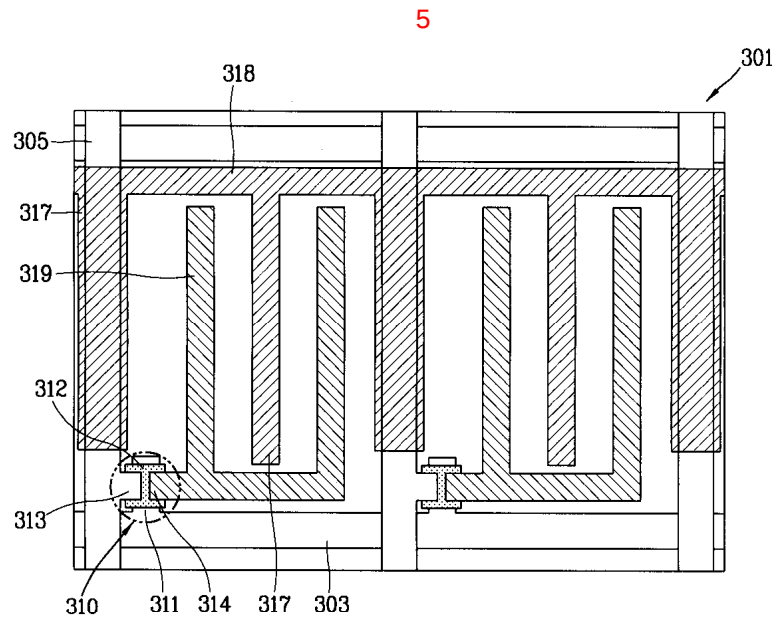


3b



4





专利名称(译)	具有改善的孔径比的横向电场模式液晶显示元件		
公开(公告)号	KR1020040038355A	公开(公告)日	2004-05-08
申请号	KR1020020067253	申请日	2002-10-31
[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	LEE JAEKYUN 이재균 KIM IKSOO 김익수 CHAE GEESUNG 채기성		
发明人	이재균 김익수 채기성		
IPC分类号	G09G3/36 G02F1/1362 G02F1/1343		
CPC分类号	G02F1/136286 G02F1/134363		
代理人(译)	PARK , JANG WON		
外部链接	Espacenet		

摘要(译)

在本发明的平面内切换模式液晶显示装置中，数据线被布置在公共电极上，有机绝缘层位于间隔中并与数据线重叠。通过由不确定的公共电极最小化像素内的截止区域来改善孔径比。它防止形成的公共电极的宽度比数据线宽，并且平面切换被数据线和像素电极之间的电场扭曲。在平面切换模式中，公共电极，数据线，重叠，有机保护层，孔径比。

