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(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G02F 1/133

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2002 - 0035313
2002 05 11

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2000 11 06

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1 957 - 24102

(74)

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(54)

,

2

가

1 2 , 1 2

2

.

3c

,

1a TN

1b

2 1b

3a

3b TN 가

3c TN 가

3d TN

4a ,

4b IPS

4c IPS

4d IPS 가

101 : 1 101a : 2

103a : 1 103b : 2

103c : 3 111 :

111a : ()

,

가

CRT(cathod ray tube)

가 CRT

(flat panel display)

가

(liquid crystal display : LCD), (elec
tro luminescent display : ELD), (field emission display : FED), (plas
ma display panel : PDP) 가 , , , ,

(cost)

가 가

TN(Twisted Nematic) , (Twinsted Nematic) ,
 y inversion) 가 가 (Gra
 N $\pm 25^\circ$ 2 - TN , 4 4 - TN 가 , 2 - T $\pm 40^\circ$
 ,
 1a TN(Twisted Nematic) , (+)
 (liquidcrystal with positive dielectric anisotropy)
 TN (mono domain) ,
 가 가 ,
 1a , TFT (11) (11a),
 (liquid crystal)(13) , TFT (15,15a)
 1b (15,15a) , ,
 ,
 가 가 , ()
 , , (normall white mode)
 , 가 가 , Δn 가
 , (retardation ; $d \Delta n$, d , Δn
) , 0(zero)가
 ,
 2
 , 2
 ,
 가
 가
 ,
 가

2

1 2 , 1 2

2

2 가 ,

,

,

1 2

TN

3a 2

, 3b 3a , 3c 가

, 3d A - A' 가

3d

(100a) 1 (100) 2 (100a) , 1 (100) 2 (103)

1 (100) , 2 (100a)

/

1 (100) 2 (100a) ()

TN 가 3b 2 가

가 3c 1 (103a) 2 (103b) , 1 (103a) 2 (103b)

2 - -

1, 2 (103a,103b) 가

2 -

2

2

2 IPS 2

, 4a 3 , 3 ,

IPS TN , 4b IPS , 가

(111) (111a) 3 (103a,103b,103c)

, 가 (, " 1 " , " 2 " , " 3 "

, 1 , 2 3 .

4b 1 (100) , IPS 1 (100) 2 (100a)

2 (100a)

4c 4b - ' IPS , 1 (100) 2

(100a), 1 (100) (111) (111a) , 1

(100) 2 (100a) , 3 (

) (103)

IPS , 1, 2 3

TN 가 , IPS

1 (100) , 4c (111a)

, (111) (103)

(111a)

(111)

IPS 가 4b , 1,

2 (103a,103b) 3 (103c)

, 4d (111) (111a) 가 ,

1 (103a)

1, 2 (103a,103b) 3 (103c) IPS

가 .

가 .

2

가 ,

, (Multi domain)

(57)

1.

1 2 ;

1 2

2

2.

1 , 1

, 2

3.

1 , 1 2

4.

1 ;

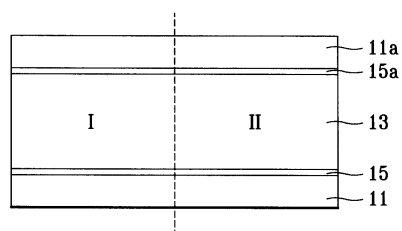
1

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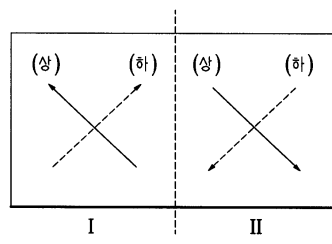
1 2

2

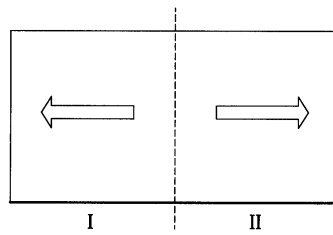
1a



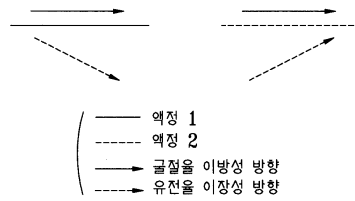
1b



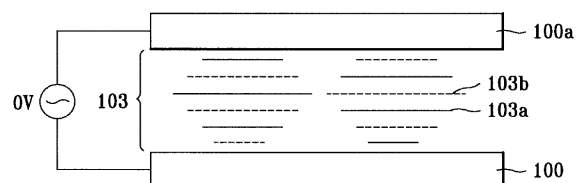
2



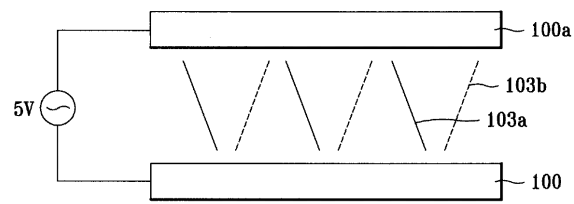
3a



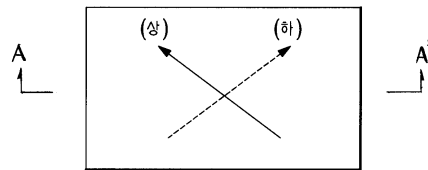
3b



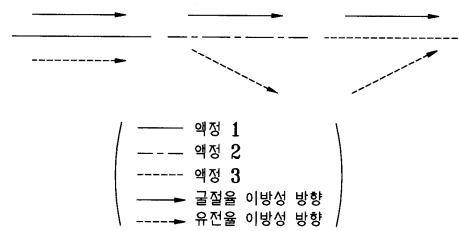
3c



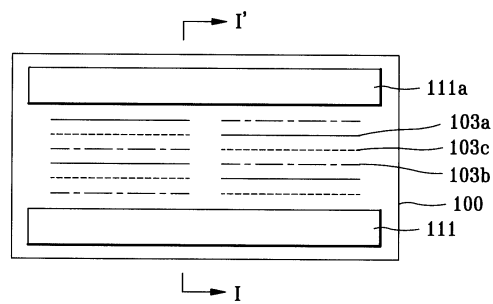
3d



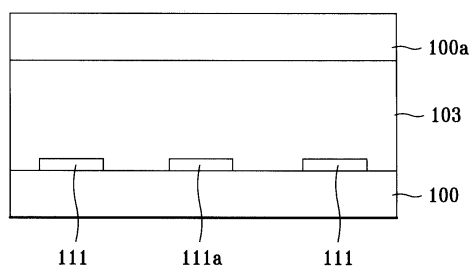
4a



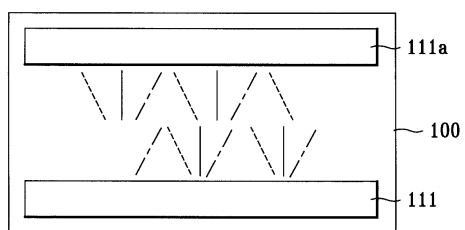
4b



4c



4d



专利名称(译)	液晶显示装置		
公开(公告)号	KR1020020035313A	公开(公告)日	2002-05-11
申请号	KR1020000065552	申请日	2000-11-06
[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	KIM WOOKSUNG 김옥성		
发明人	김옥성		
IPC分类号	G02F1/133		
代理人(译)	金勇 新昌		
外部链接	Espacenet		

摘要(译)

本发明涉及提供一种能够根据工艺简化和特定方向实现色差补偿的液晶显示装置，通过混合具有不同介电各向异性方向的2种以上的液晶实现宽视角折射。指数各向异性方向是相同的。并且，由在第一基板和第二基板之间形成有本发明的液晶显示装置的至少2种以上的液晶的液晶层构成，并且混合第一基板和第二基板。折射率各向异性和介电各向异性。

