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(12)

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2003 - 0005803
2003 01 23

(21) 10 - 2001 - 0041259
(22) 2001 07 10

(71) .
20

(72) 1 150 - 196

5 601 - 705

(74)
:

(54)

IPS(In - Plane Switching)

3a

1a

1b (Thin Film Transistor array)

2a

2b 2a

2c 2b

3a 가

3b

3c

11: 21:

24: 25:

IPS(In - Plane Switching)

or) (Thin Film Transist

(Polyimide)

(cell gab)

??

가

가

가

IPS(In - Plane Switching)

IPS

IPS(In - Plane Switching)

IPS

가

가

가

IPS

가

(Thin Film Transistor)

1a

(11)

가

(12)

(12)

ITO(Indium Thin Oxide)(14)

(over coat) (13)

가

ITO

(14)

(15)

1b

acitor) , 가 ITO(14) 가 (storage cap 가
 가 (thin film transistor array)(16) ,
 (15) . (mi
 cro grooves)

가 TN(Twist Nematic) IPS 90. 가
 , IPS TN , IPS
 , IPS

가

2a

(23)

가

(24)

2b

(23)

2a

(25)

(21)

(24)

가

(15)
5)

가

(23)

(25)

가

(2

가

2c

2b

(26)

(24)

$$(\quad) \times \cos(90 - \quad)$$

(23)

3a, 3b, 3c

3a

가 ??

(24)

(24)

가

가

가

가

20.

5.

3b

(15)

가

(24)

(24)

(23)

3a

(24)

(22) (24)

(23)

(23)가

(24)

(24)

(21)

(25)

(23)

가

3c

3b

(26)

가

(24)

(23)가

(24)

(22)

$$(\quad) \times \cos\{(90 - \quad) - \quad\}$$

(23)

(24)

가

(57)

1.

가 , 가 ,

2.

1 ,

IPS(In - Plane Switching)

3.

1 ,

가

4.

1 ,

5.

1 ,

가
가

6.

1 ,

가 가

7.

1 ,

가 가

8.

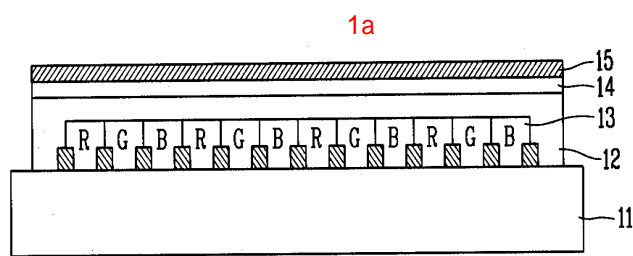
1 ,

가 가

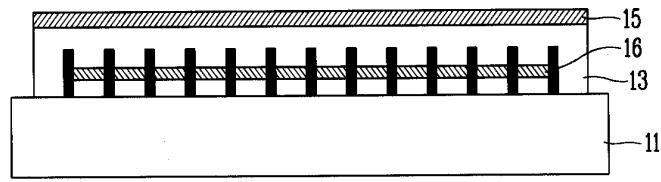
가

9.

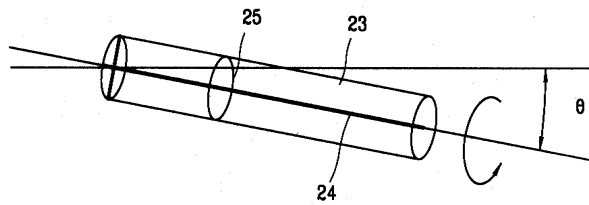
1 ,



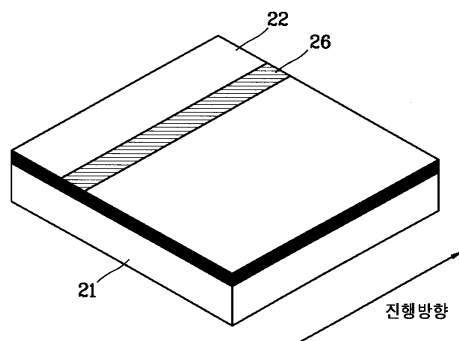
1b



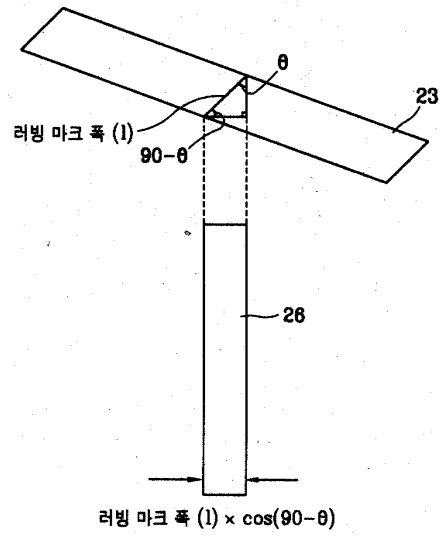
2a



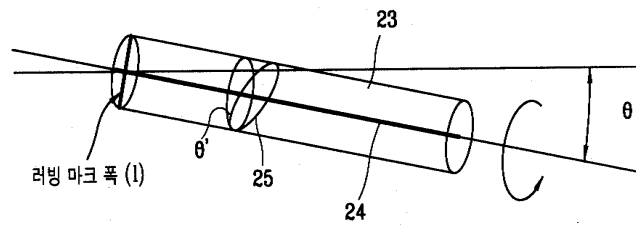
2b



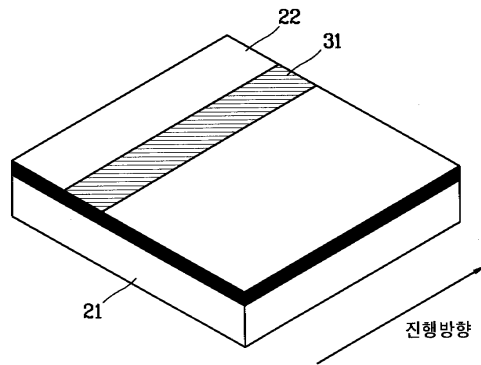
2c



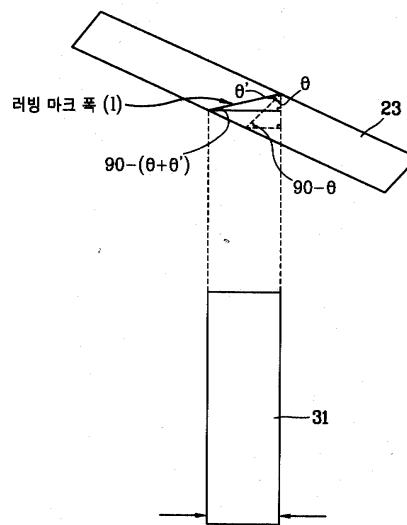
3a



3b



3c



러빙 마크 폭 (l) $\times \cos\{(90-\theta)-\theta\}$

专利名称(译)	液晶显示器的摩擦方法		
公开(公告)号	KR1020030005803A	公开(公告)日	2003-01-23
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当前申请(专利权)人(译)	LG显示器有限公司		
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摘要(译)

液晶显示器的摩擦方法技术领域本发明涉及一种液晶显示器的摩擦方法，并且为了解决在由横向电场系统驱动的IPS（面内切换）模式液晶显示器中经常出现的垂直线的摩擦缺陷，至预定角度 θ ； $\theta \in [0, \pi/2]$ 。通过扭转摩擦法摩擦后转移到液晶显示器面板的摩擦缺陷线的宽度比摩擦布相对于摩擦辊不扭曲时的宽度宽，从而提供均匀且清洁的液晶显示屏，并提高液晶显示器的工艺良率。 图3A

