

(19)
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G02F 1/136(11)
(43)2002 - 0051185
2002 06 28(21) 10 - 2000 - 0080735
(22) 2000 12 22(71) .
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20

(72) 224 - 5

505 - 513

(74)

:

(54)

가 (Mono domain)
(Polymer network)
FT
5mW/cm² (Light intensity) , 240 ~ 1200mJ/ cm² 가 T
1 ~

9d

- 1 V FLC .
 - 2 V FLC .
 - 3 HV FLC .
 - 4 HV FLC .
 - 5 가 HV FLC .
 - 6 HV FLC 가 .
 - 7 HV FLC .
 - 8 HV FLC , .
 - 9 HV FLC .
 - 10 HV FLC , .
- < >
- 1 : 2 :
- 3,4 : 5 : TFT
- 7 : 8 :

, (Liquid Crystal Display : " LCD")

, 가 (Ferroelectric Liquid Crystal Display) , 가 , 가

가 ,
가
lix) FLC , SS(Surface Stabilized) FLC , AFLC(Antiferroelectric) , V FLC , DH(Deformed He
FLC 가 . , HV(Half V)

1 V FLC .
V FLC 가 .
가 .

2 V FLC .
V FLC 가 가 " V"
 , 가 .

3 HV FLC .
HV FLC V FLC HV FLC (
가 , 가
)
 . HV FLC 4 " Half - V"
 .

HV FLC 가 .
(isotropic) → (N*) → C (Sc*) → (Crystal)

가 , 가
 , 가
 , 가 2가
 .

5 6 . 5 E(-)
가
E(+) 가 6 , E(-)
 .
가 , 4 " Half - V"
 .

(Grinding)

가

DC 가 가 가 가

가 가 HV FLC 가

(Mono domain)
(Polymer network)

TFT
 $1 \sim 5\text{mW/cm}^2$ (Light intensity) , $240 \sim 1200\text{mJ/cm}^2$

가

9

(2) (3) (1) TFT (5) ,
(4) (6) , (1,6) (8) (
(7) (1,6) ,
(7) 가
가 , Shear stress
9a , DC 가 , 9b
(,)
(mono domain)

9c 가 , 9d .

HV FLC (Total exposure energy)가 가 (Light intensity) , (radkcal) 가 , 가 .

(Ultraviolet light) 100nm (Hg Lamp) 240 ~ 1200mJ/ cm^2 (Xe Lamp) 365nm

가 , (Polymerization) 가 , (disclination) 가 , 가 .
1 ~ 5mW/ cm² .

			HV	FLC		HV	FLC
7,	8,	10	.				

7 HV FLC Half - V
(Heat stress)
가 V 8 Half - V
가 HV FLC 10

가
(Heat stress)
가

가

(57)

1.

가 가

2.

1 가 가 (T_N s)

3.

1 DC 가

4.

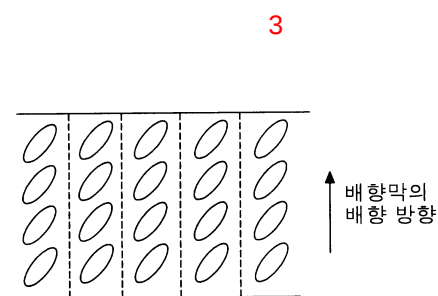
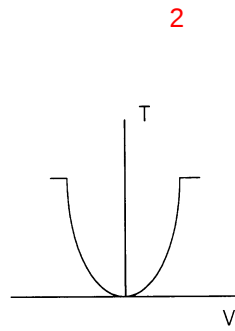
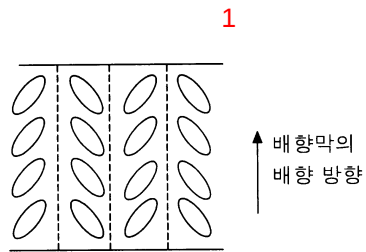
1 3

5.

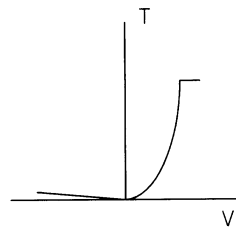
1 1 ~ 5mW/cm²

6.

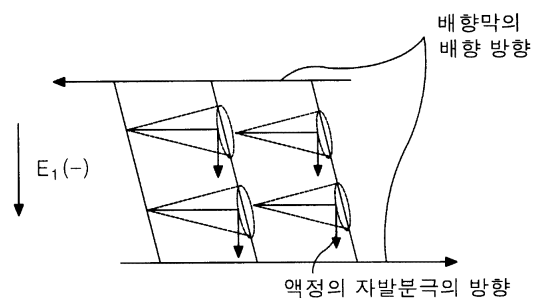
1 5 ,

240 ~ 1200mW/ cm^2 

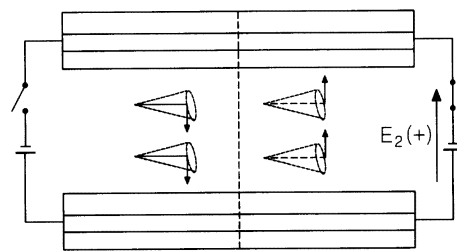
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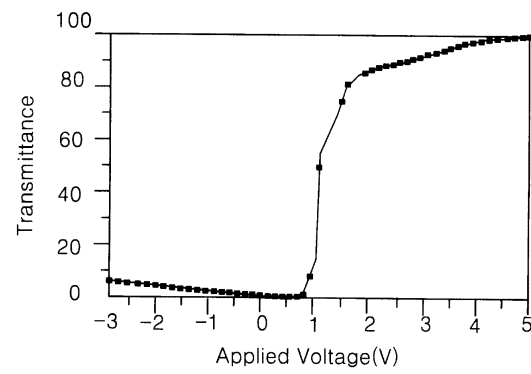
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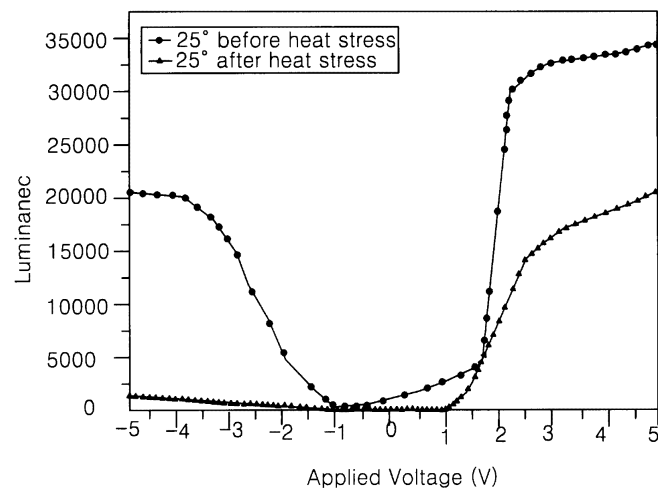
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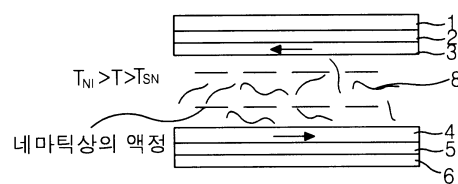
7



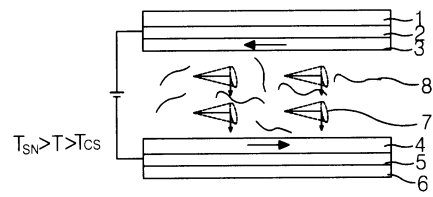
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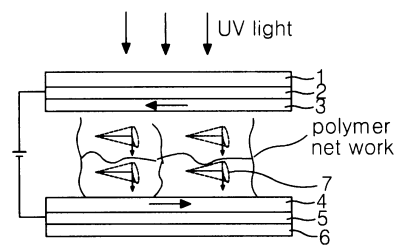
9a



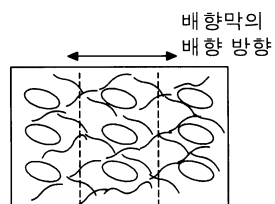
9b



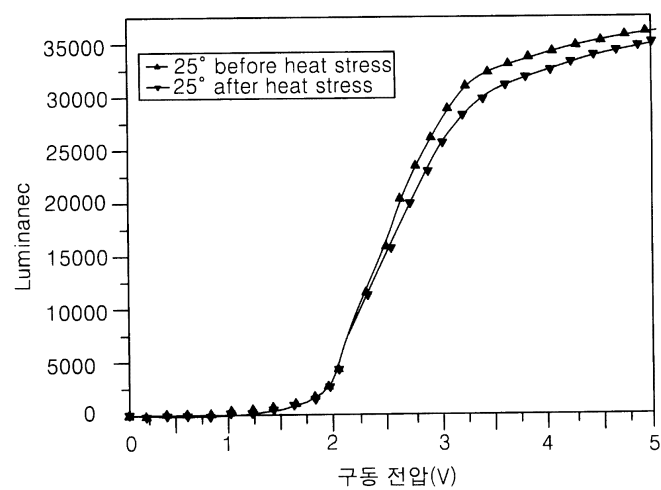
9c



9d



10



专利名称(译)	铁电液晶显示装置及其制造方法		
公开(公告)号	KR1020020051185A	公开(公告)日	2002-06-28
申请号	KR1020000080735	申请日	2000-12-22
[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	CHOI SUSEOK 최수석 CHOL SUKWON 최석원		
发明人	최수석 최석원		
IPC分类号	G02F1/141 G02F1/1334 G02F1/136 G02F1/137		
CPC分类号	G02F2001/13345 G02F2001/13775 G02F1/141		
其他公开文献	KR100752507B1		
外部链接	Espacenet		

摘要(译)

用途：提供铁电液晶显示器和制造液晶显示器的方法，以便即使在外部温度变化或冲击的情况下也能保持稳定的对准状态。

