

(19)
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10-2004-0062144
2004 07 07

(21) 10-2002-0088471
(22) 2002 12 31

(71) . 20

(72) 1 221

106 1001

101 610

(74)
:

(54)

가

4g

1

TFT

2

3a ~ 3f

4a ~ 4g

5a ~ 5c

41: 42:

43: 44:

45: 47,57:

46,53: 52:

가

가

1	(black matrix)(6)	1	(subcolor filter)(, ,)(7)	(8)	(21)	(8)
	(18)		(1) , (3)			
(T)		(5)		(4)		
TFT	(2)	(1)	TFT	(2)	(10)	
	TFT	(array)	가	(T)가	(12)	
	(2)	,		(11),		
	TFT	(4)	(11)	(12)		
	(2)	(5)	- -	(ITO,Indium Tin Oxide)		

2

TFT
(rubbing) (seal)
TFT

1 TFT TFT 가

2 TFT

g) TFT (rubbin

가 (display)

(polyimide)

가

3 (seal pattern)

TFT (gap)

TFT

4

가 TFT (cell gap)

TFT

5 가 TFT

(margin) μm 가 TFT

6 1 5

가

7 cm^2 μm -

3a ~3g

3a (31) TFT (32)

(reverse tilt domain)

(carbon) 가 (optical density)가 3.5 / (Cr) (Cr/CrOx)

가

가 가 3b

(32)가 (31) (

(33a)

가

(33b)

(33

c)

가

3c

(33a,33b,33c)가 (31) 가

(34)

(Cr)

가
가 1~1.5 μ m

가
가

3d

(35)

ITO(Indium Tin Oxide)

가

3e

(36)
(photolithography)

(35)

가

가 가

가

가

가 가

가

가

가

가 가

IPS(in plane switching)

가

가

가

가

가

3f
polyimide)

(37)

(rubbing)

가

(p

가
가

가

TN
IPS

4b

4b

(42)가

(41)

(43a)

가

(43b)

(43

c)

4c

(44)

TFT

가

IPS

(45)

4d

가

(4e).

TFT

(46)

가

4f

가
가 가
10 μ m 가

4e

(46)

가

가

2

3

가

3~7 μ m가

가

TFT

가

4g

가

가

5

- 2-

1 5 2 가

5a (51) (52)가

5b 가

5b (53) 3 가

가
가

가

가 10 μ m

1

1

5c 5b 5L 가 (stripe) (53) 56 57 (54)가 가
가 55

(57)

1

(53)

가
가

가

가

가

(smear)

(57)

1.

; 가 ; ;

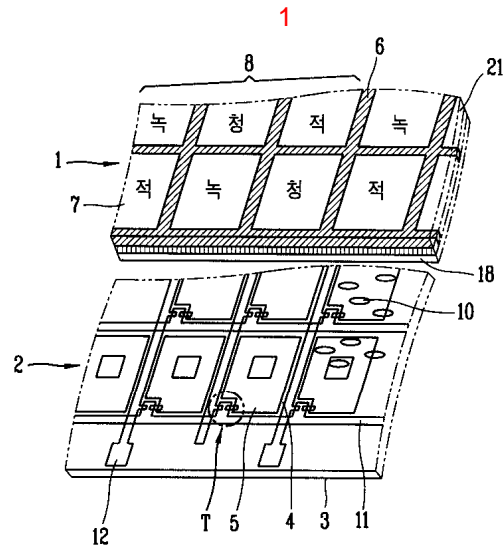
2.

1 , ,

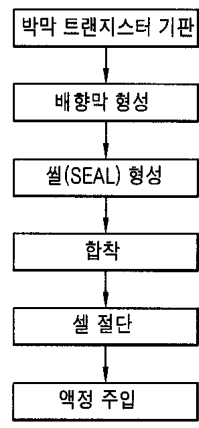
3.

1 ,

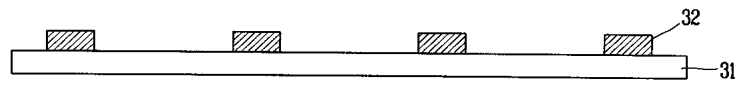
- 1 4. , 가 .
- 1 5. , .
- 6. ; ; 가 ;
- 6 7. , .
- 7 8. , .
- 9. ; 가 ; ;
- 8 10. , .
- 11. ; ; ;
- 11 12. , .
- 11 13. , .



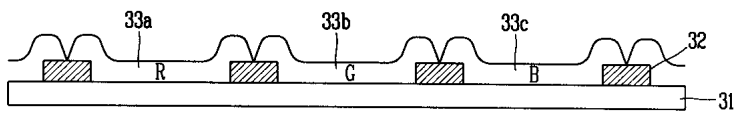
2



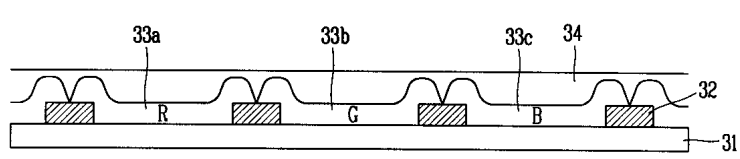
3a



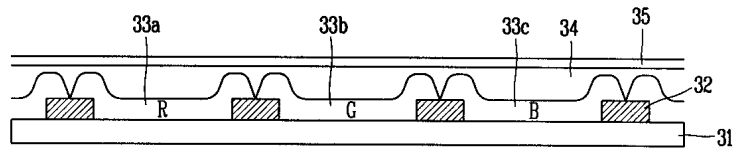
3b



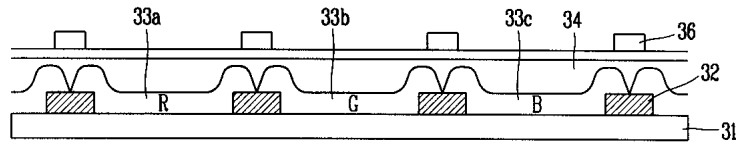
3c



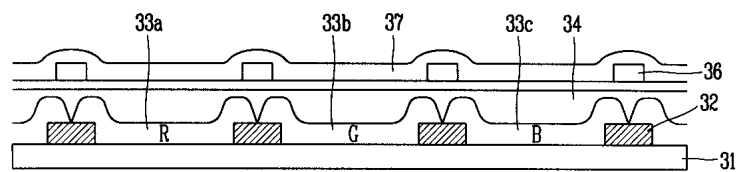
3d



3e



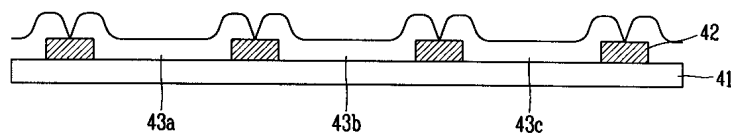
3f



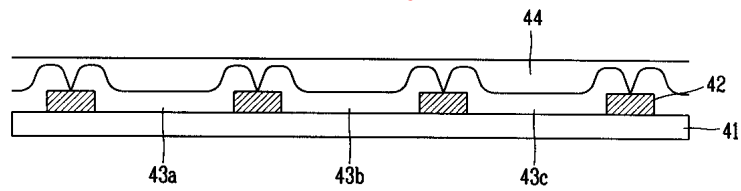
4a



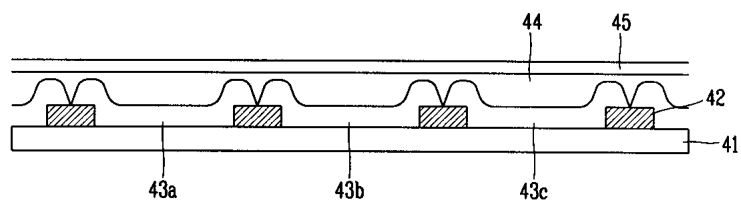
4b



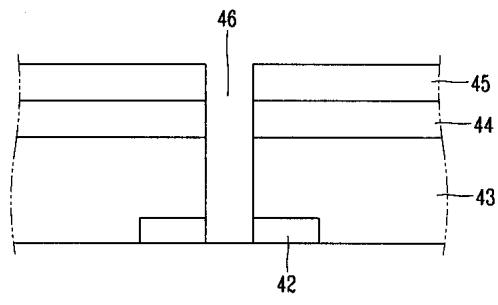
4c



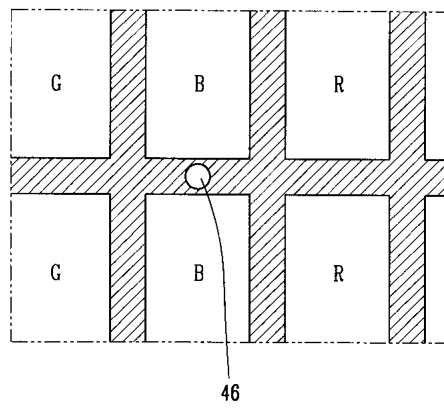
4d



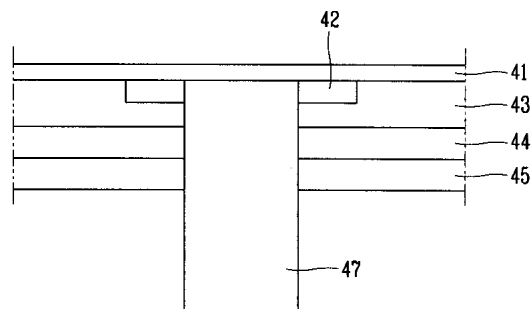
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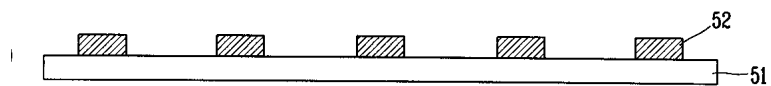
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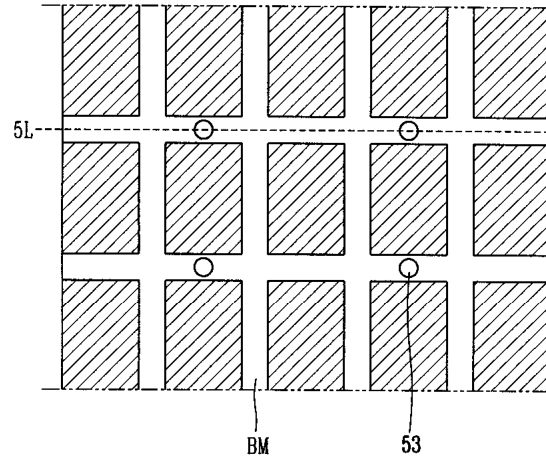
4g



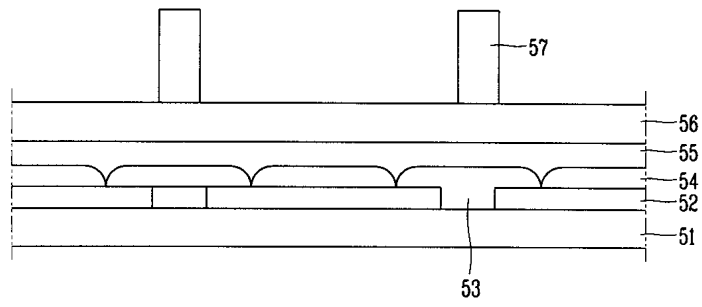
5a



5b



5c



专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	KR1020040062144A	公开(公告)日	2004-07-07
申请号	KR1020020088471	申请日	2002-12-31
[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 KYETAE 이규태 SEOK SOOWON 석수원 PARK KIBOK 박귀복		
发明人	이규태 석수원 박귀복		
IPC分类号	G02F1/1339 G02F1/1335		
CPC分类号	G02F1/13394 G02F1/133512		
代理人(译)	PARK , JANG WON		
其他公开文献	KR100652213B1		
外部链接	Espacenet		

摘要(译)

本发明是由凹陷单元间隙缺陷朝向当从外部图案化间隔物压力下，由于彩色到黑色基质树脂的破坏和包含图案化间隔物到一种现象，即在显示发生不均的液晶显示装置上的平坦化层作为并在基板上形成黑矩阵；在黑矩阵上形成滤色器；通过去除黑色矩阵的一部分来暴露一部分衬底，形成图案衬垫以便与暴露的衬底直接接触，并在图案衬垫上形成对准层。图4g 指数方面 图案垫片，黑色矩阵，细胞间隙

