

1 .
 2 .
 3 .
 4 5 .
 6 7 .

()

1 : 2 :

2a : 3 :

4 : 5 :

11 : 12 :

13 : 20 :

20a : 30 : ITO

, , , , .

(Fringe Field Switching mode LCD : , FFS - LCD) IPS - LCD
 98 - 9243 .

1 FFS - LCD , .
 , (1) (11) (d: ,) ,
 (20a) (20) (1, 11) .
 (1) (20a) (2) (4)
 (3) , (2) (4) , ,
 (d) , (2) (2) ,
 , , , (4) .

(1) 가

(11) (12)가 (12)

R, G, B (13)가

(1,11) (5) (15) 3° (5, 15) (anti - parallel), 180°

(20) 가

45° (5, 15) $+78^\circ$ -78° (5, 15) $+12^\circ$ -12° $+45^\circ$ -45° $+45^\circ$

(1) (11) (5)

FFS - LCD (2) (4) 가 가

(2) (4) (d) (2) (4)

FFS - LCD IPS - LCD

2 FFS - LCD

$0.3\mu\text{m}$ $(\Delta \epsilon) - 4$ $(\Delta n) 0.077$ $(\Delta n \cdot d)$

가 100.00ms 45.6%

FFS - LCD

가

(13) 1 (12) (13)

14) (11) 500 (16)

(16) ITO (16) 가

FFS - LCD

FFS - LCD , ;

가 ;

ITO ; ,

1 ; ITO , 1

2 ; , 1

ITO

ITO

()

3 FFS - LCD , 1

(1) (11) (d) (20) , (1, 11)

(20a)

(1) ()

()가 ,

ITO (2) (4) (4)

(3) (2) , (4)

(1) (12)가 (13)

R, G, B (13)가 (12) (13)

ITO (30) ITO (30)

(1, 11) (5) 3° (5) (anti - parallel)

(15) (15)

(20) (20a) IT

(11) ITO (30)

O (30) (4) 가

가 ,

		($\Delta n \cdot d$)	ITO (20)	
	(11) ITO (20)	FFS - LCD		
		(20a) ($\Delta n \cdot d$)	0.20 0.50 μm	
		(5, 15)	+45 °	- 45
°		+12 ° - 12 °		
		FFS - LCD	(1, 11)	
		(5)		
		FFS - LCD	FFS - LCD	
	(11) ITO (30)			
	(11) ITO (30)		(1)	
ITO (30)				
ITO (30)				
	FFS - LCS			
4	5	FFS - LCD		
		(2)		(4)
	(2a)			
	(11) ITO (30)	ITO (30)	(4)	가
	(2a)	(4)		2 3 μm
6		FFS - LCD		
	($\Delta \varepsilon$) - 4,	(Δn) 0.077,		($\Delta n \cdot d$)
0.3 μm				
	FFS - LCD	ITO		
가 100.00ms	, 42%			
7		FFS - LCD		
	($\Delta \varepsilon$) - 4,	(Δn) 0.09,	($\Delta n \cdot d$) 0.33 μm	
		가 100.00ms	, 45%	가
		($\Delta n \cdot d$)		

ITO
FFS - LCD

(57)

1.

가
;

ITO ;

;

1 ;

ITO , 1 2 ;

1 ;

.

2.

1 , ,

3.

1 ,

4.

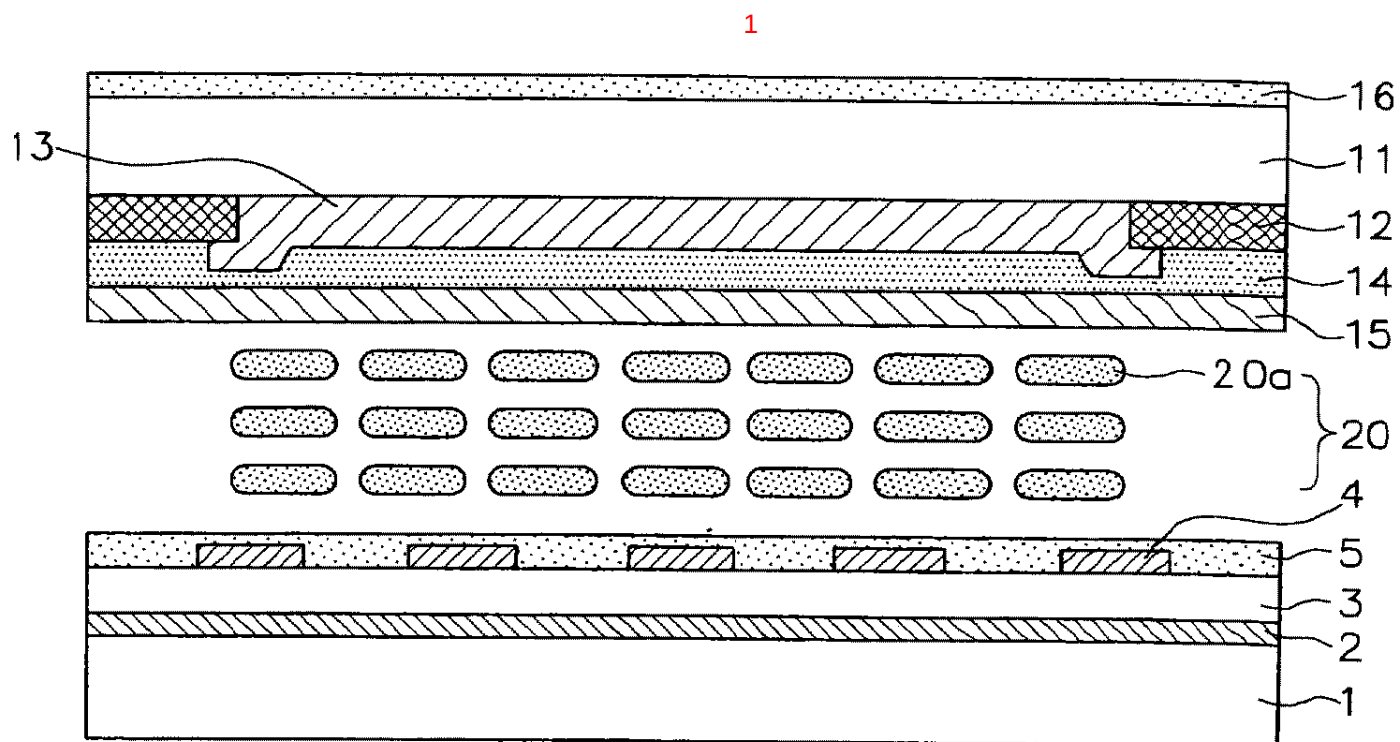
3 , 2 3 μ m .

5.

1, ITO

6.

1, $(\Delta n \cdot d) = 0.20 \sim 0.50 \mu\text{m}$

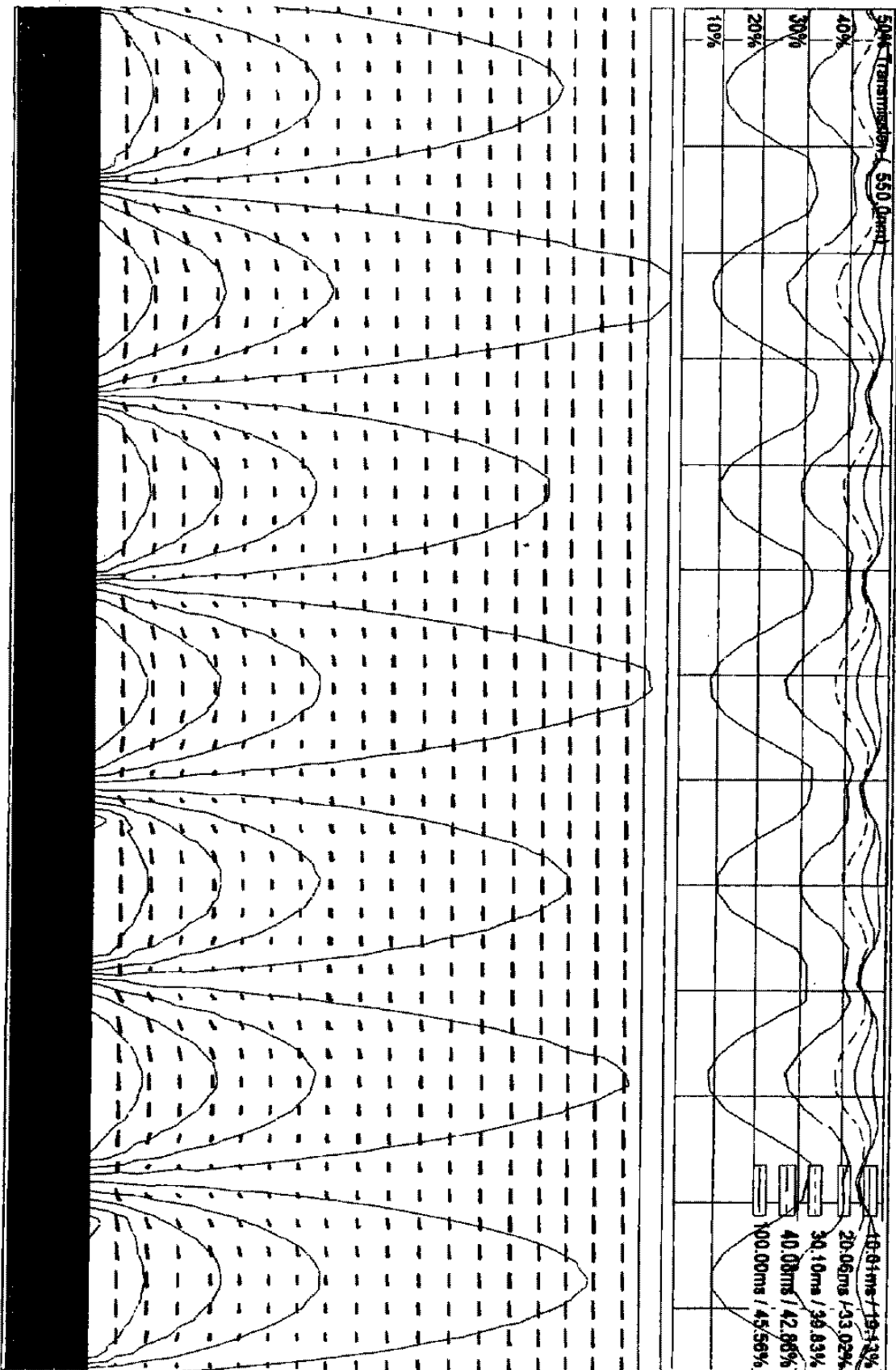


2

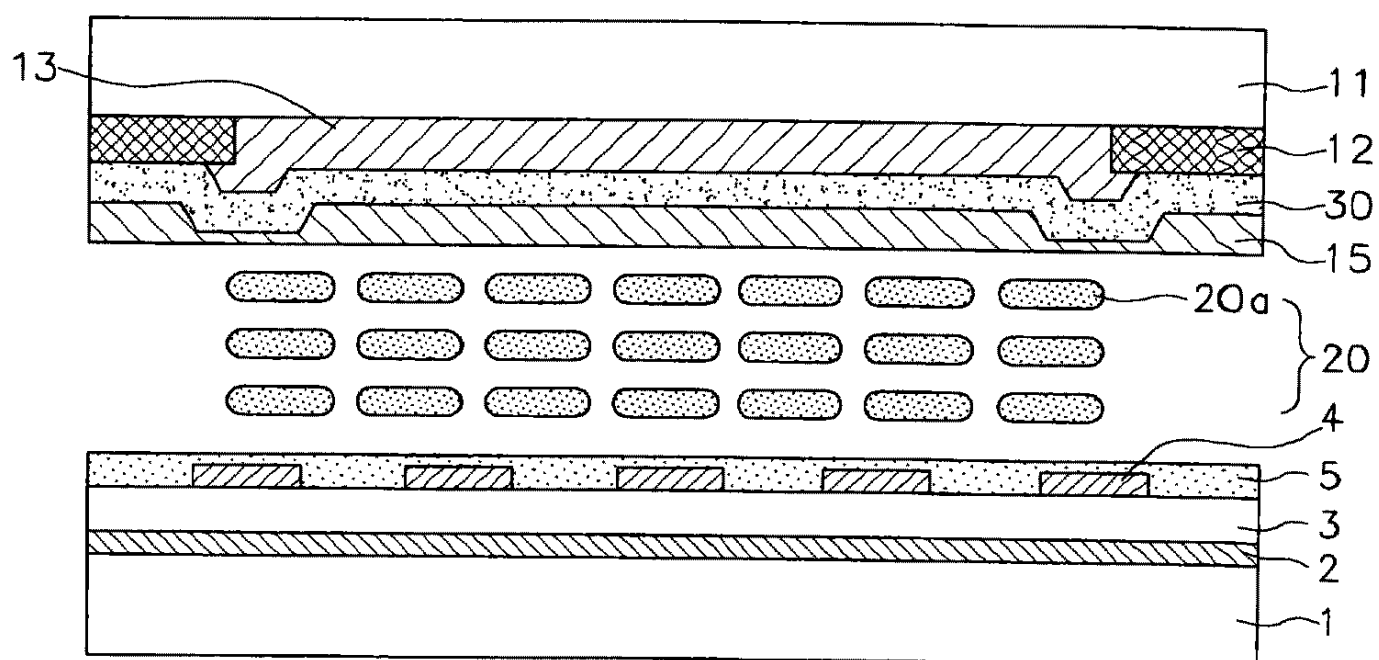
$$\Delta\eta \cdot d = 0.3$$

$$\Delta\varepsilon = -4$$

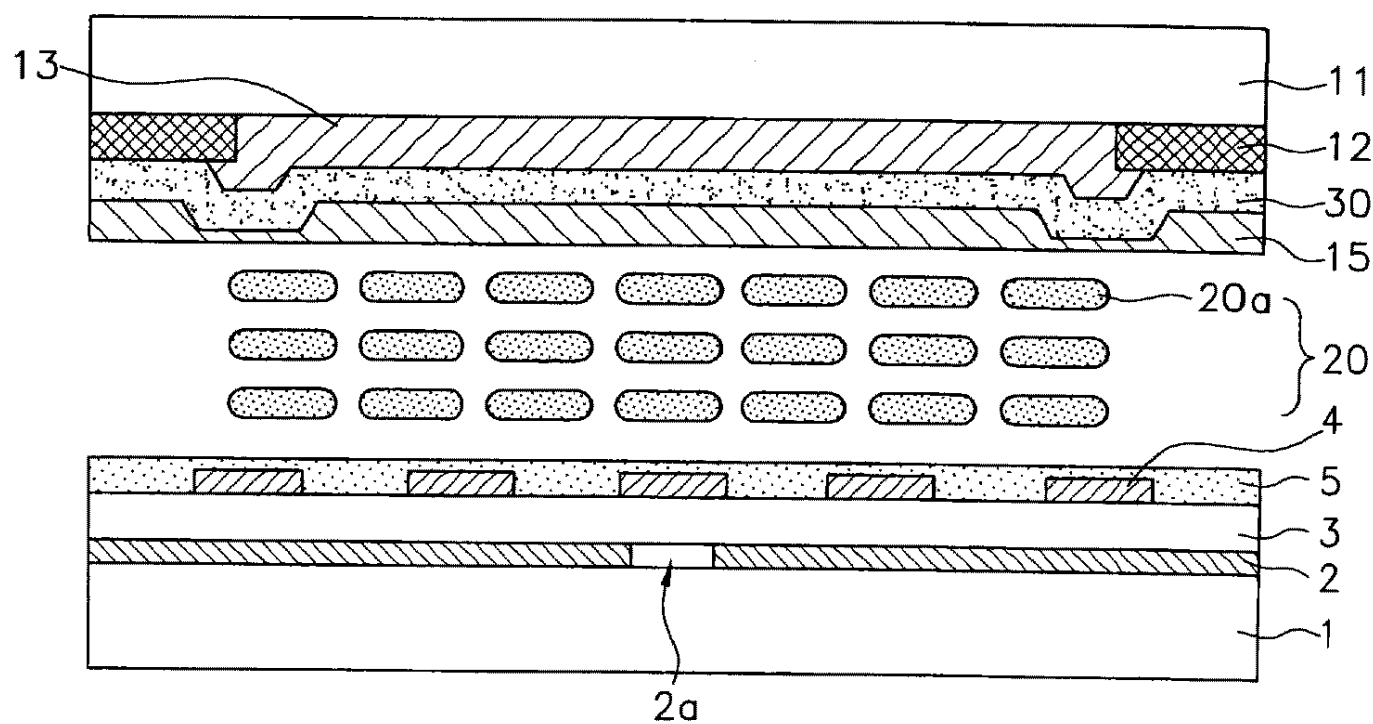
$$\Delta\eta = 0.077$$



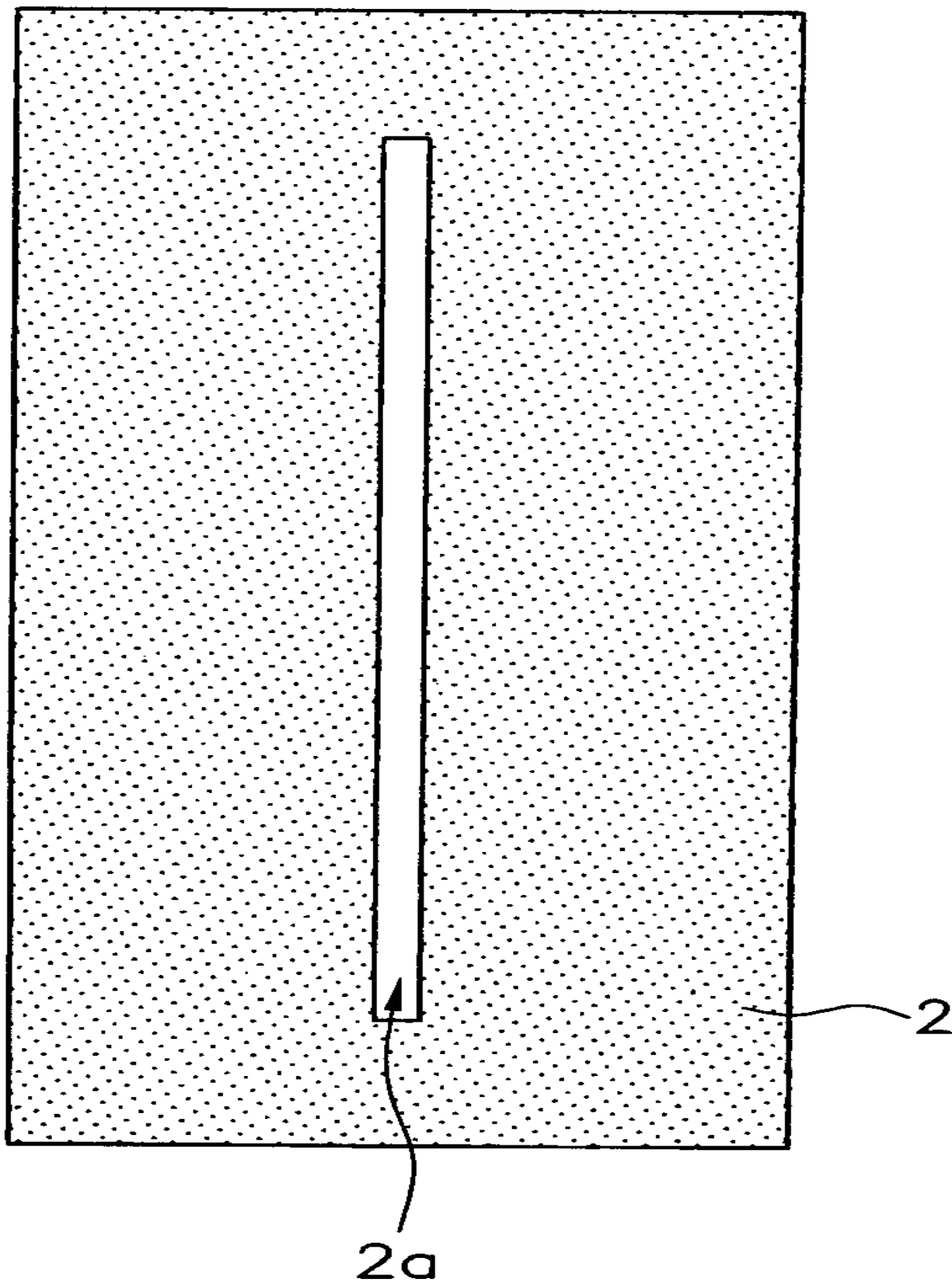
3



4

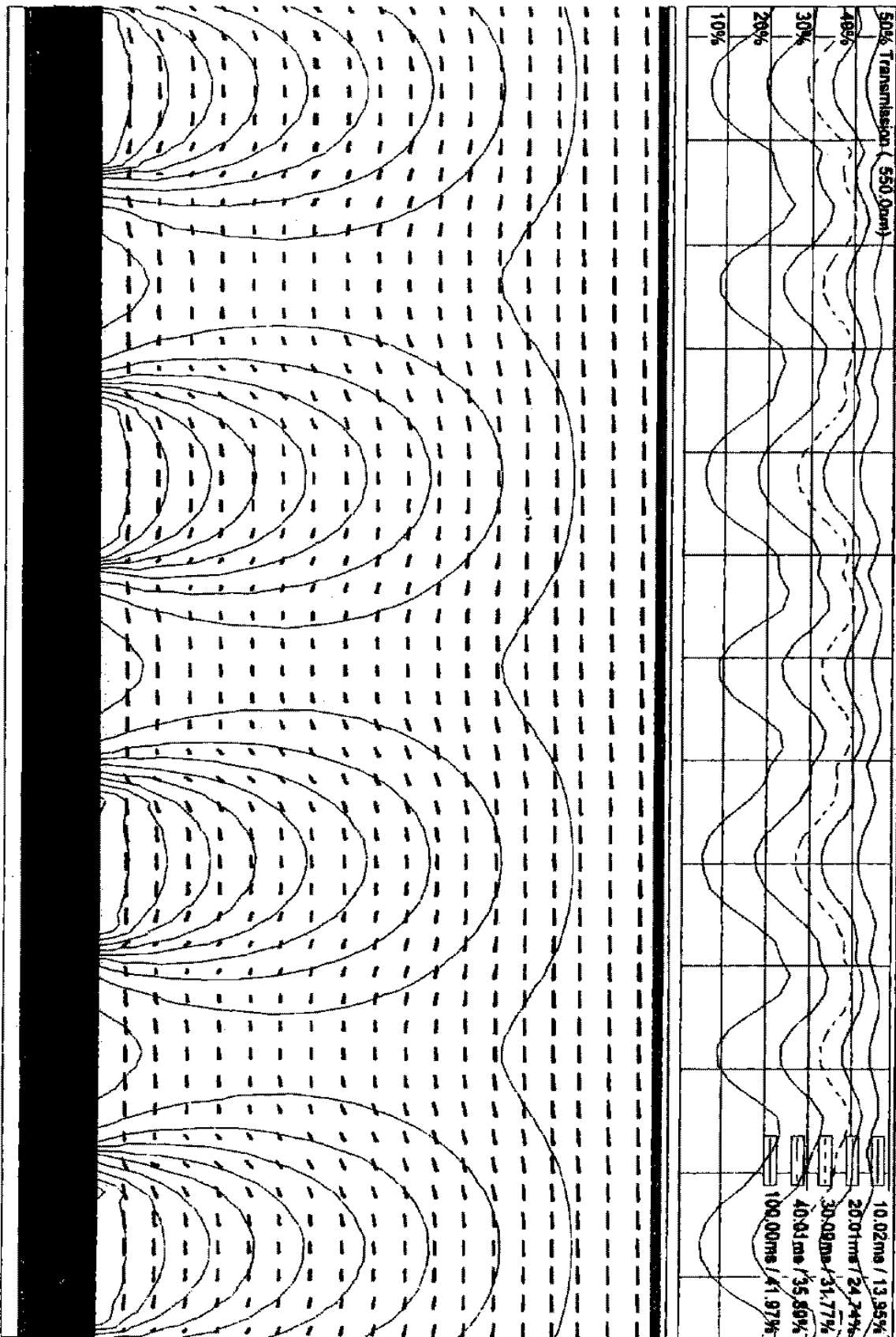


5



$$\Delta\eta \cdot d = 0.3$$

$$\Delta\epsilon = -4, \Delta\eta = 0.077$$

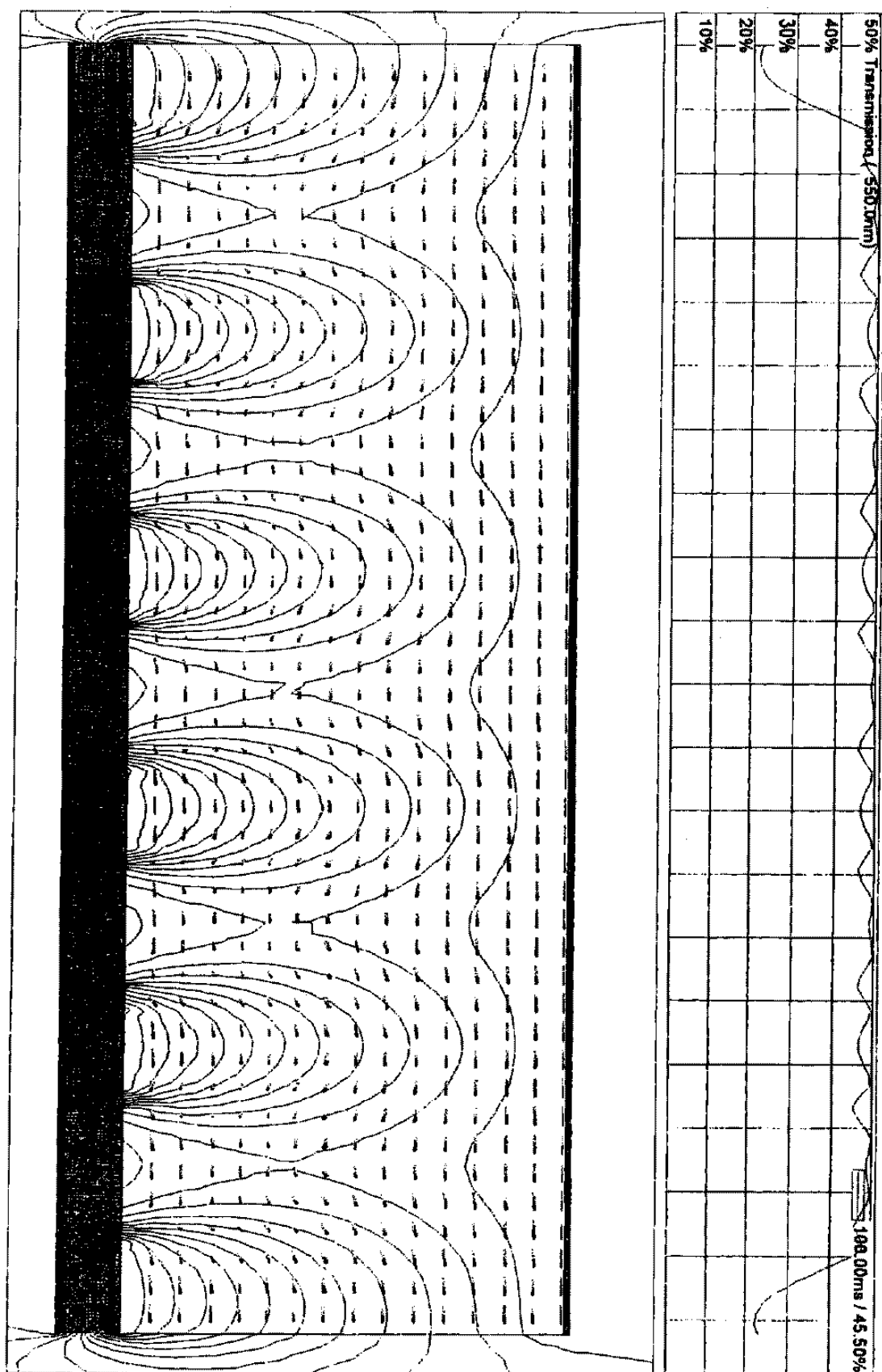


7

$$d = 3.9$$

$$\Delta \varepsilon = -4$$

$$\Delta \eta = 0.09$$



专利名称(译)	边缘场驱动液晶显示器		
公开(公告)号	KR1020010108998A	公开(公告)日	2001-12-08
申请号	KR1020000030096	申请日	2000-06-01
[标]申请(专利权)人(译)	HYDIS TECH HYDIS技术有限公司		
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IPC分类号	G02F1/1335 G02F1/1333 G02F1/1343 G02F1/1337 G02F1/136		
CPC分类号	G02F2201/121 G02F1/134363		
其他公开文献	KR100671509B1		
外部链接	Espacenet		

摘要(译)

用途：提供FFS（边缘场切换）模式LCD（液晶显示器）以获得高清晰度并通过有效去除静电和残留图像来降低制造成本。

