

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G02F 1/133

(11)
(43)

2001 - 0082203
2001 08 29

(21)	10 - 2001 - 7003284
(22)	2001 03 14
	2001 03 14
(86)	PCT/EP2000/06587
(86)	2000 07 11

(87)

WO 2001/06309
2001 01 25

[illegible]

(30)	99202351.5	1999 07 16	EP(EP)
------	------------	------------	--------

[illegible]

(72)	가,			
	,	- 5656,	.	6
	,			
	,	- 5656,	.	6

(74)

1

(54)

(black double cell)

180 °

1

lays) 1 (automotive disp

USP 5,287,207 (double cell)
2
(grey scale inversion) 가

180 ° 180 ° { (cockpit appli
cation)}

50 ° 100 °

1
가
(discotic materials) 가

1

2

3 1

4 5

가

6

7 8

가

1 (2, 3) (positive dielectric anisotropy)
 (11) 1 (10)
 (12, 13) (2, 3)
 (12) (13)
 (8) (7)
 (15) (12, 13) { (16, 16')
 (14) , (12, 13) (14) , (12, 13) 0 V Φ_1
 Φ_1 50 ° 100 ° 90 °

가
 2 (21) 2 (20) (3) (3, 4) (10, 20)
 (24) (3, 4) (21) (24) , 가
 Φ_1 (6) Φ_2 (5) (14, 24) (10, 20)

(14') { (masked rubbing or vapor dep
 position) }, 180 °
 2 (6) ; (2) (14') ; (3)
 (14, 24) ; (4) (24) ; (5)가 (2)
 (14') , (3) (14, 24) , (4) (24)
 (27', 27" , 27, 28, 29) (27, 28)

(6) (26) , 27'(27") 0 ° (180 °) 26
 27 가 (14, 24) (wall orientation) , (0 V) (10)
 (director)가 (20)
 (division) Φ_1 (10)
 180 ° 3
 (10) (27', 27" , 27) , (6
 26) 0 V , 27' 27 Φ_1 27"
 27 2 (20)(- Φ_1) , 28
 (27) 29 가
 25 (5) .()

가 , , 가

(For the grey scales as a function of the viewing angle of this double cell, it now holds that it is composed, as it were, from those of the two sub - pixels).

4 5 4
(60 ° d. Δn = "330" nm 가) 가
가 20 ° , 50 °
5 ,

6 (10) Φ_1 90 ° , d. Δn = "400" nm ,
2 (20) 2 (21) (24) ,
- Φ_1 (20) ,
(21) , (a polymerized liquid crystal
line material) (24) , (3) { (calam
atic)} (27) 가 , (3) (28)

7 (20) 가 ; 8
(20) ()
(black)" (180 °
) ,

가

(57)

1.

1

(twist angles)

2.

1 , 50 ° 100 °

3.

1 , , 180 °

.

4.

1 , , .

5.

4 , .

6.

1 , .

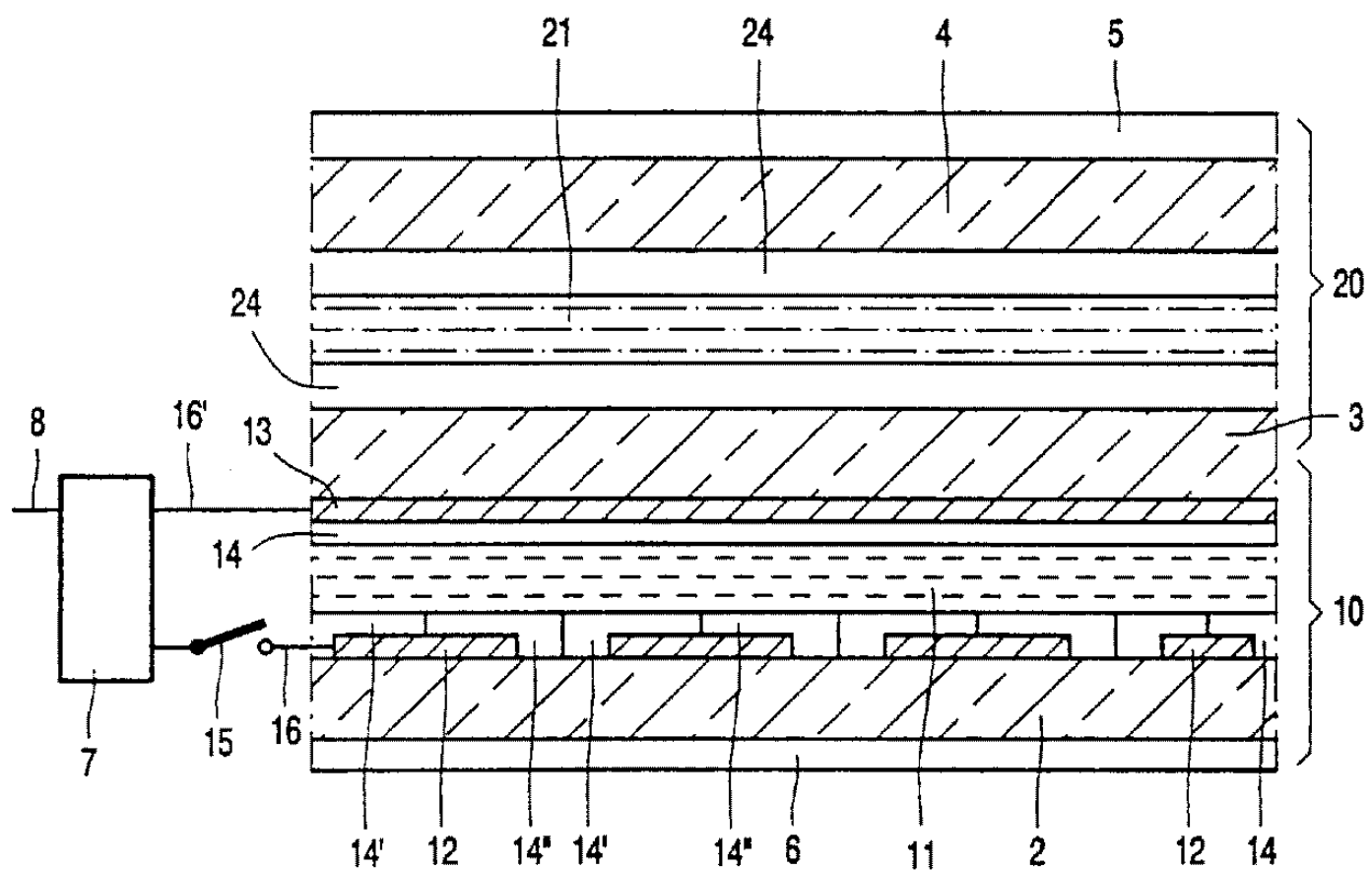
7.

1 , , .

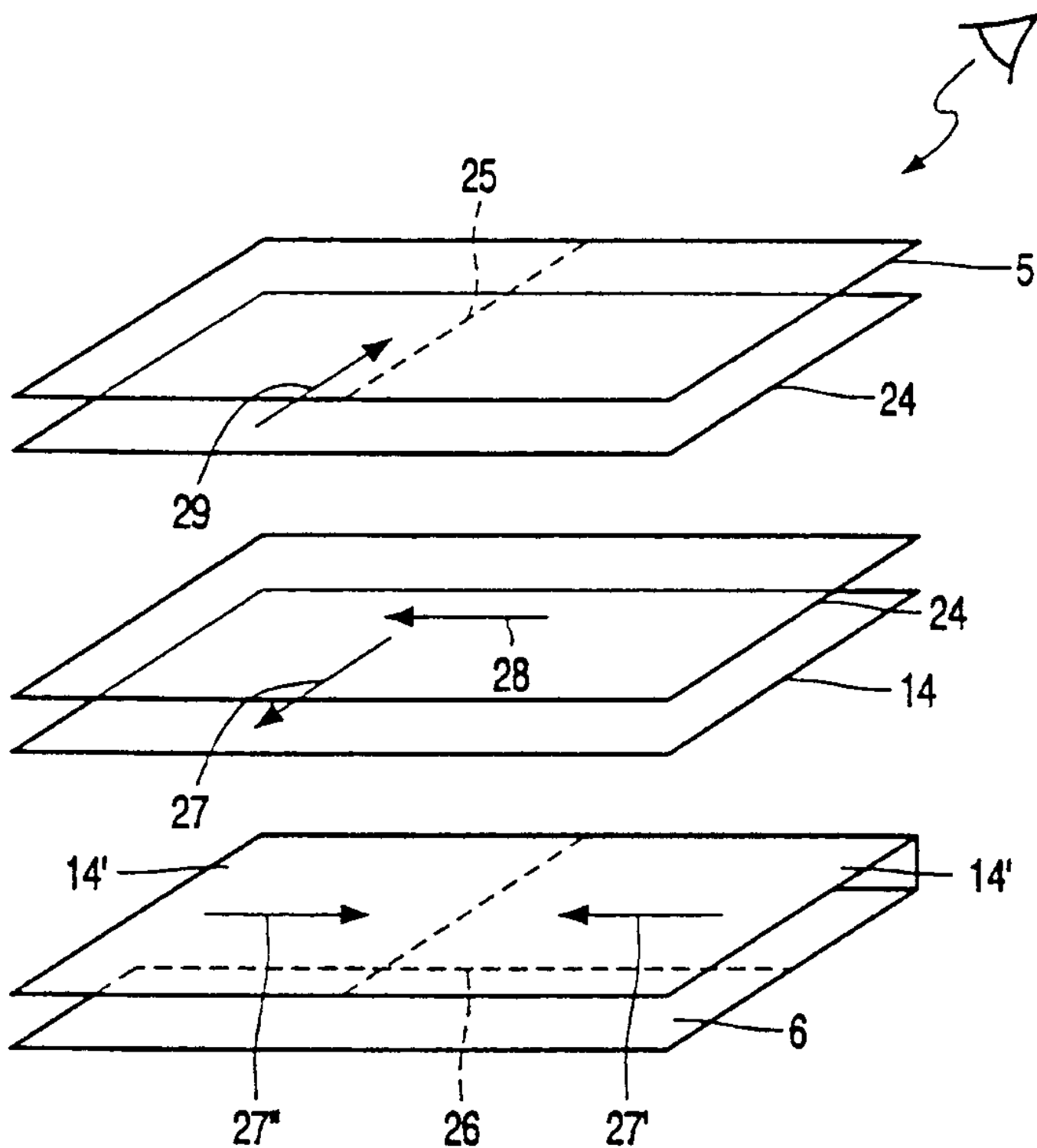
8.

1 , , .

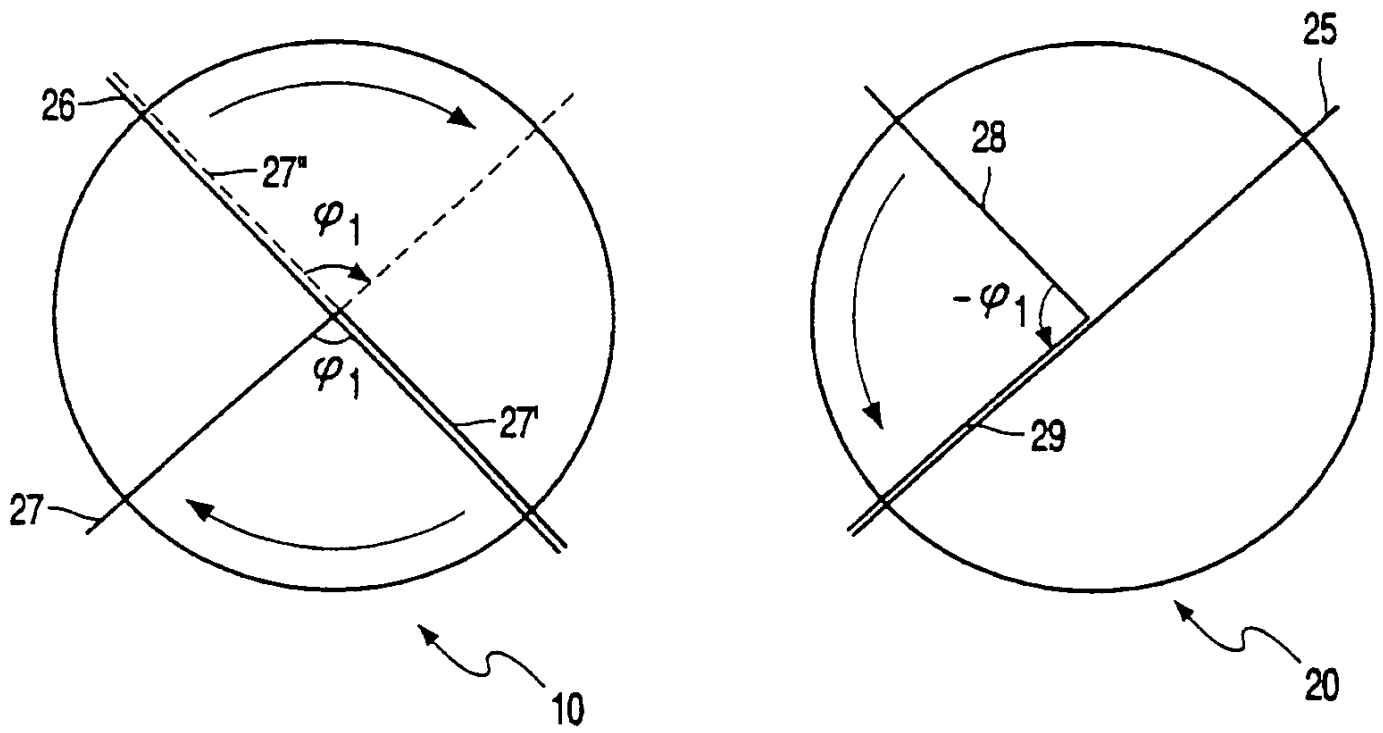
1



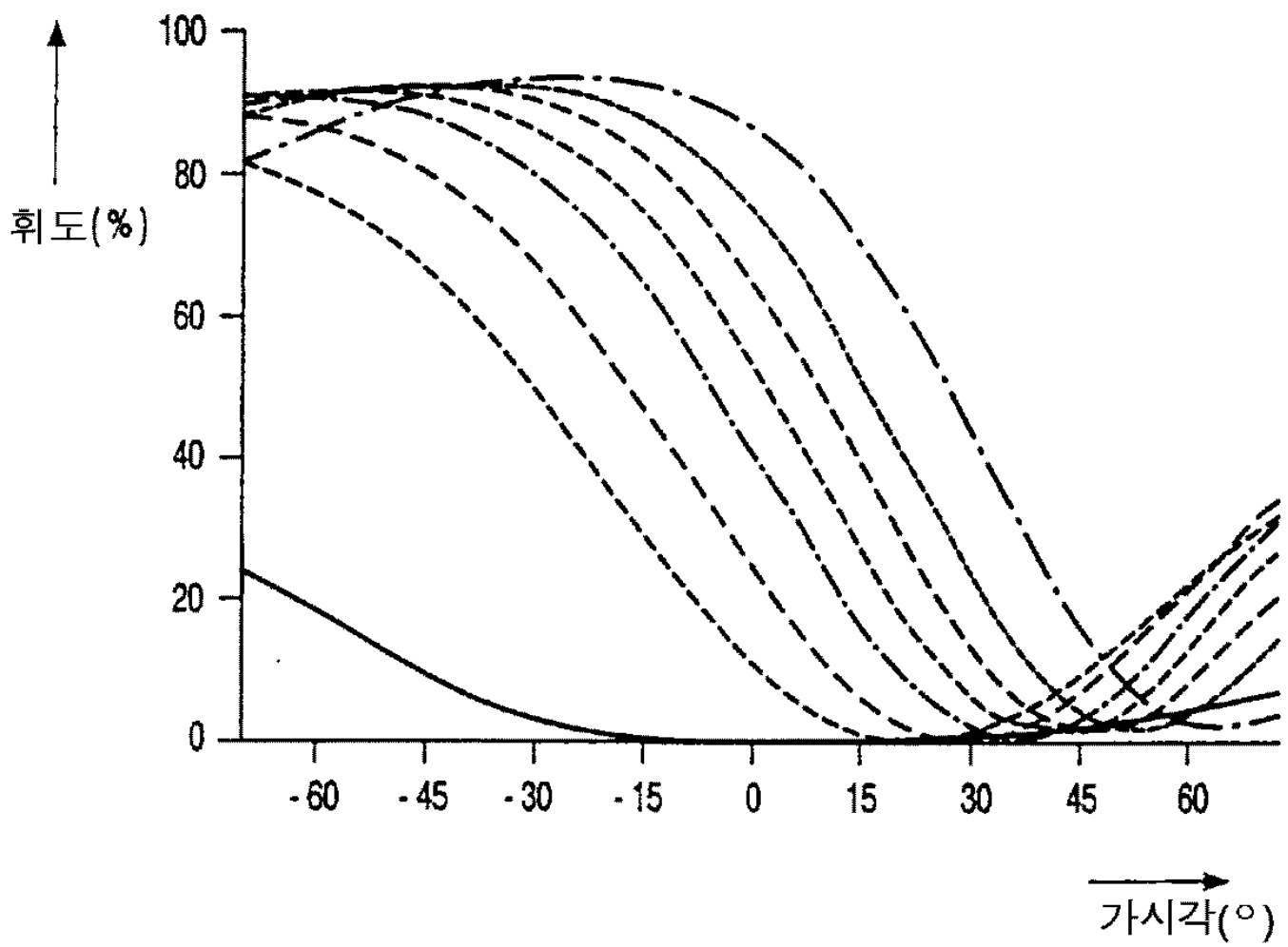
2



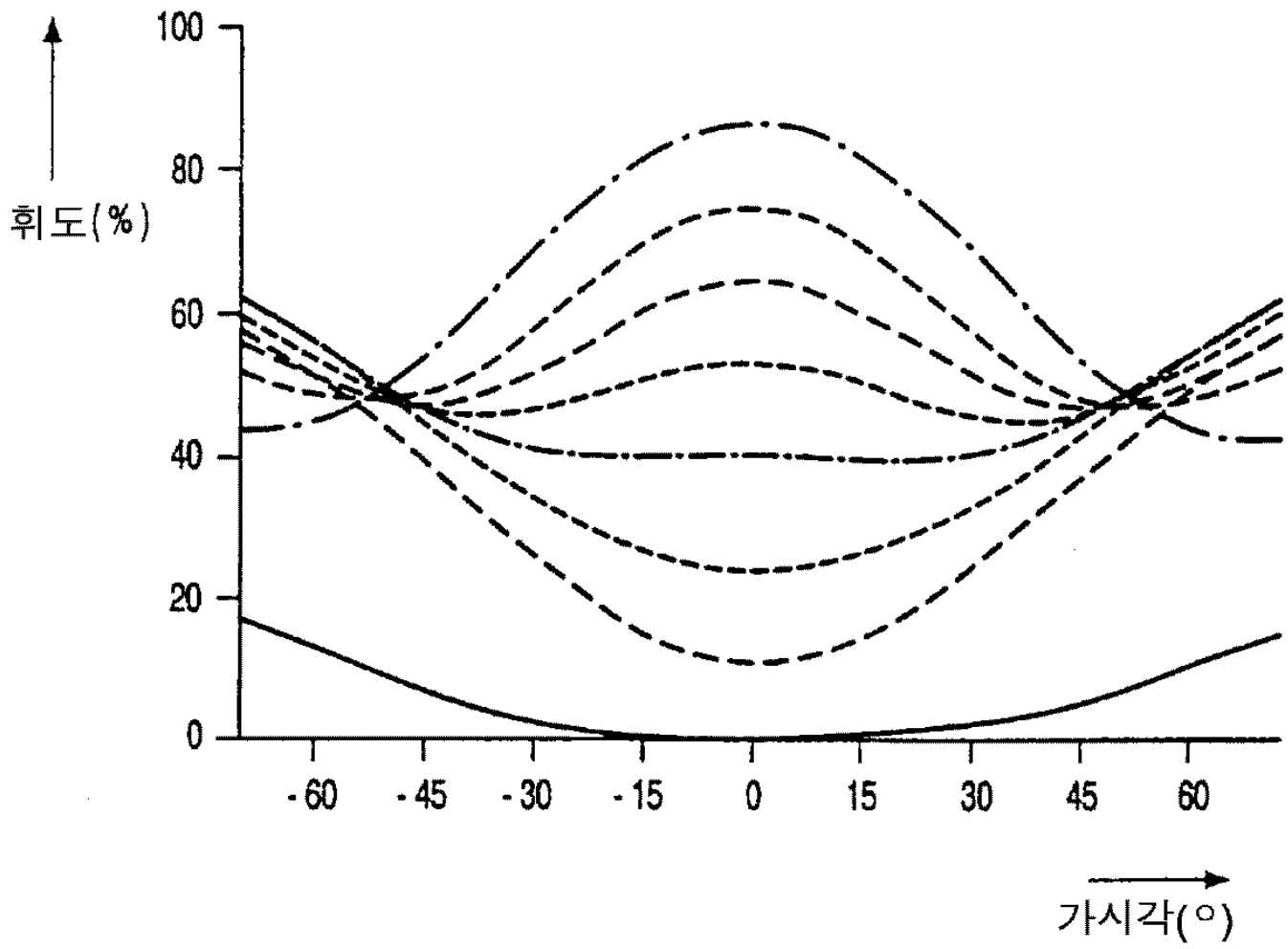
3



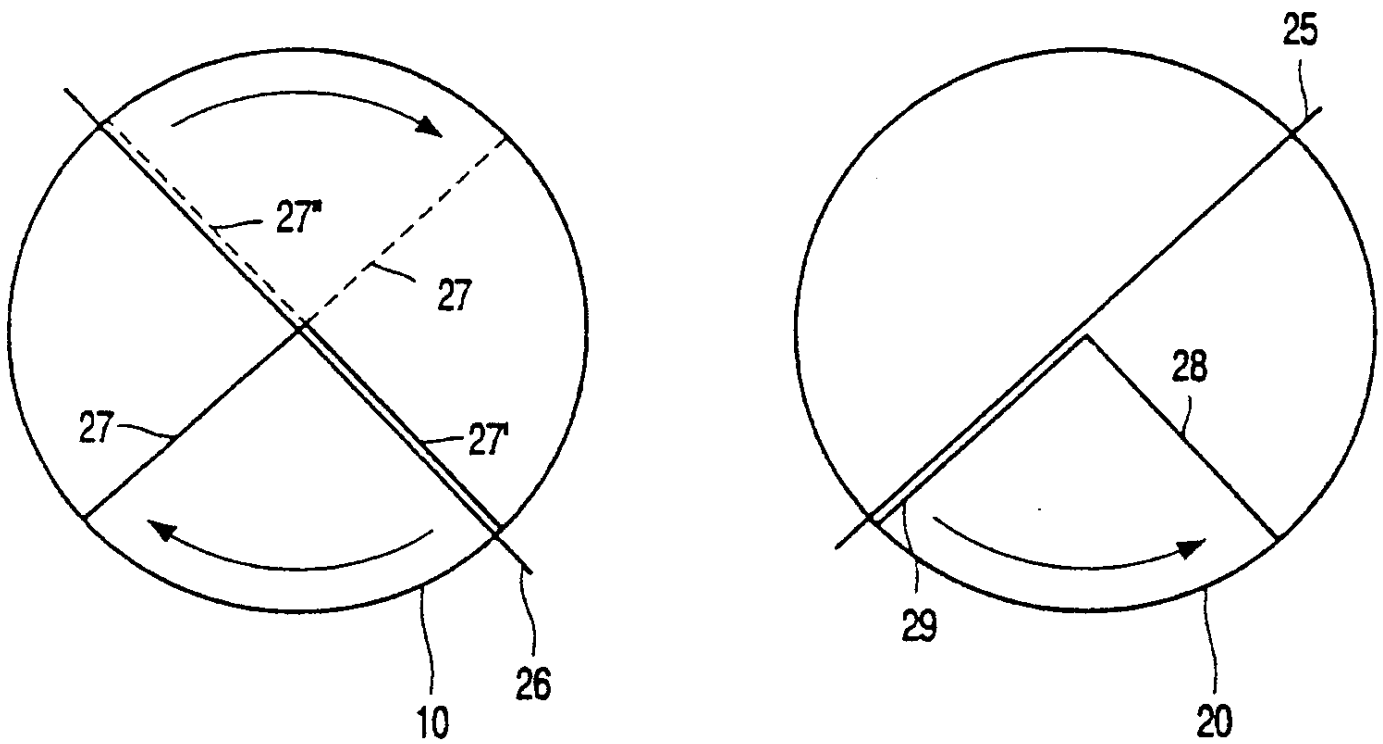
4



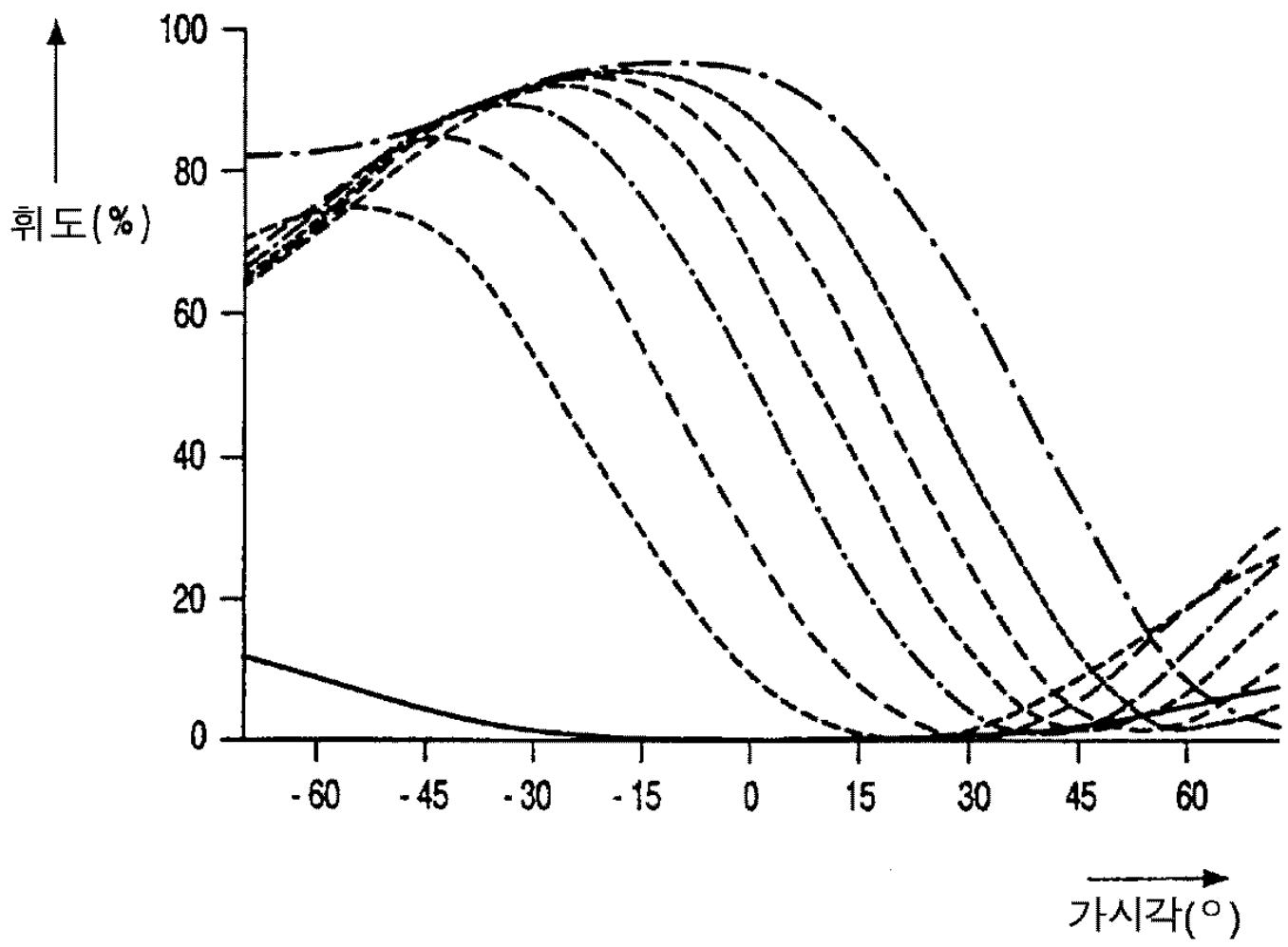
5



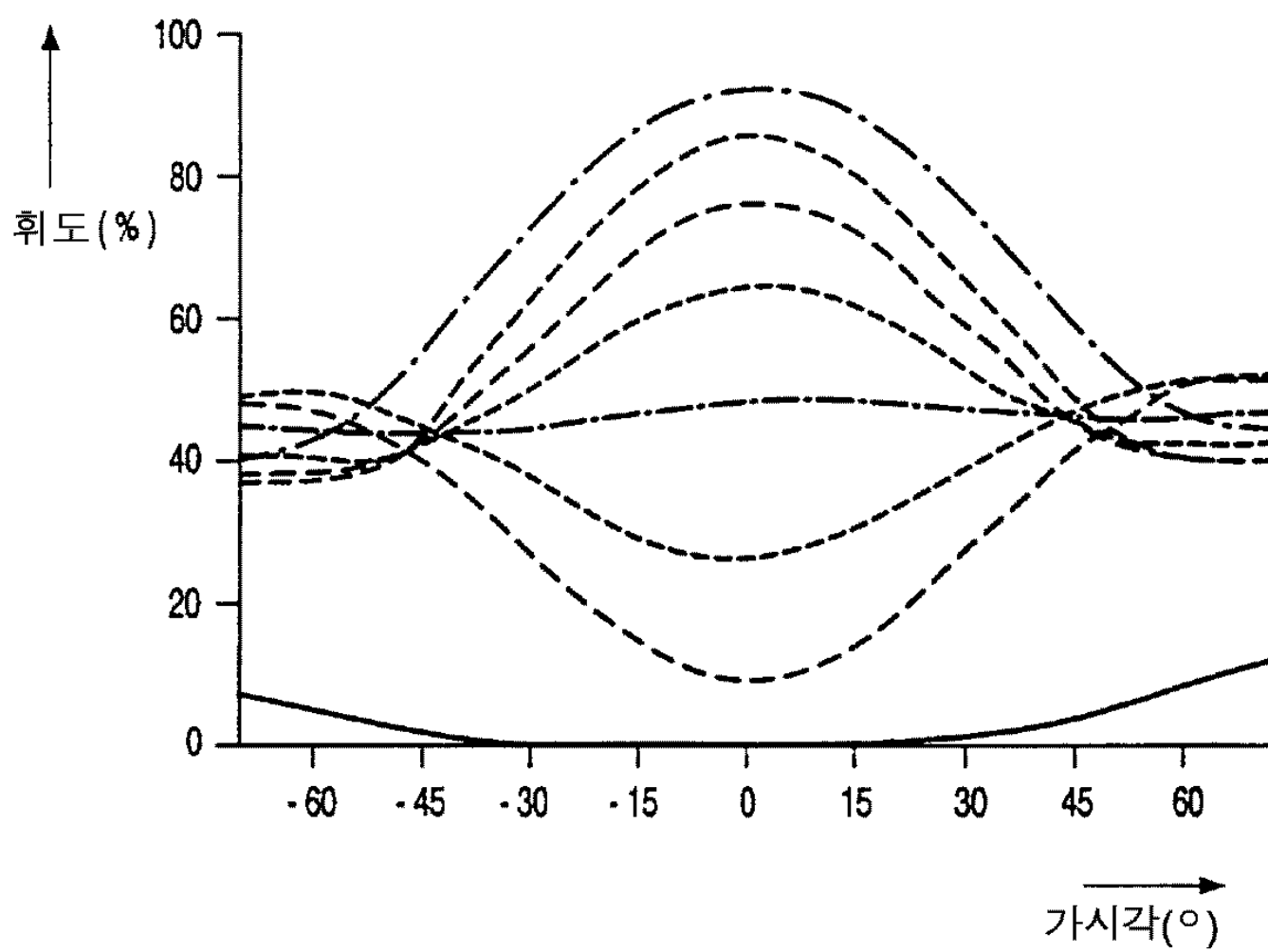
6



7



8



专利名称(译)	液晶显示装置		
公开(公告)号	KR1020010082203A	公开(公告)日	2001-08-29
申请号	KR1020017003284	申请日	2000-07-11
[标]申请(专利权)人(译)	皇家飞利浦电子股份有限公司		
申请(专利权)人(译)	科宁欣克利凯恩菲利普斯日元.V.		
当前申请(专利权)人(译)	科宁欣克利凯恩菲利普斯日元.V.		
[标]发明人	STALLINGA SJOERD 스탈링가쇼에르드 VANDEWITTE PETER		
发明人	스탈링가,쇼에르드 반데윳테,페테르		
IPC分类号	G02F1/1347 G02F1/13363 G02F1/1337 G02F1/133		
CPC分类号	G02F1/133753 G02F2001/133757 G02F2413/15		
代理人(译)	MOON , KYOUNG金 CHO , 贤SEOG		
优先权	1999202351 1999-07-16 EP		
外部链接	Espacenet		

摘要(译)

在一般的黑色双单元 (黑色双单元) 中，灰度级改进将驱动单元的像素相对于彼此分成子像素，优选地旋转180°。

