

2003-0079706
2003 10 10

1

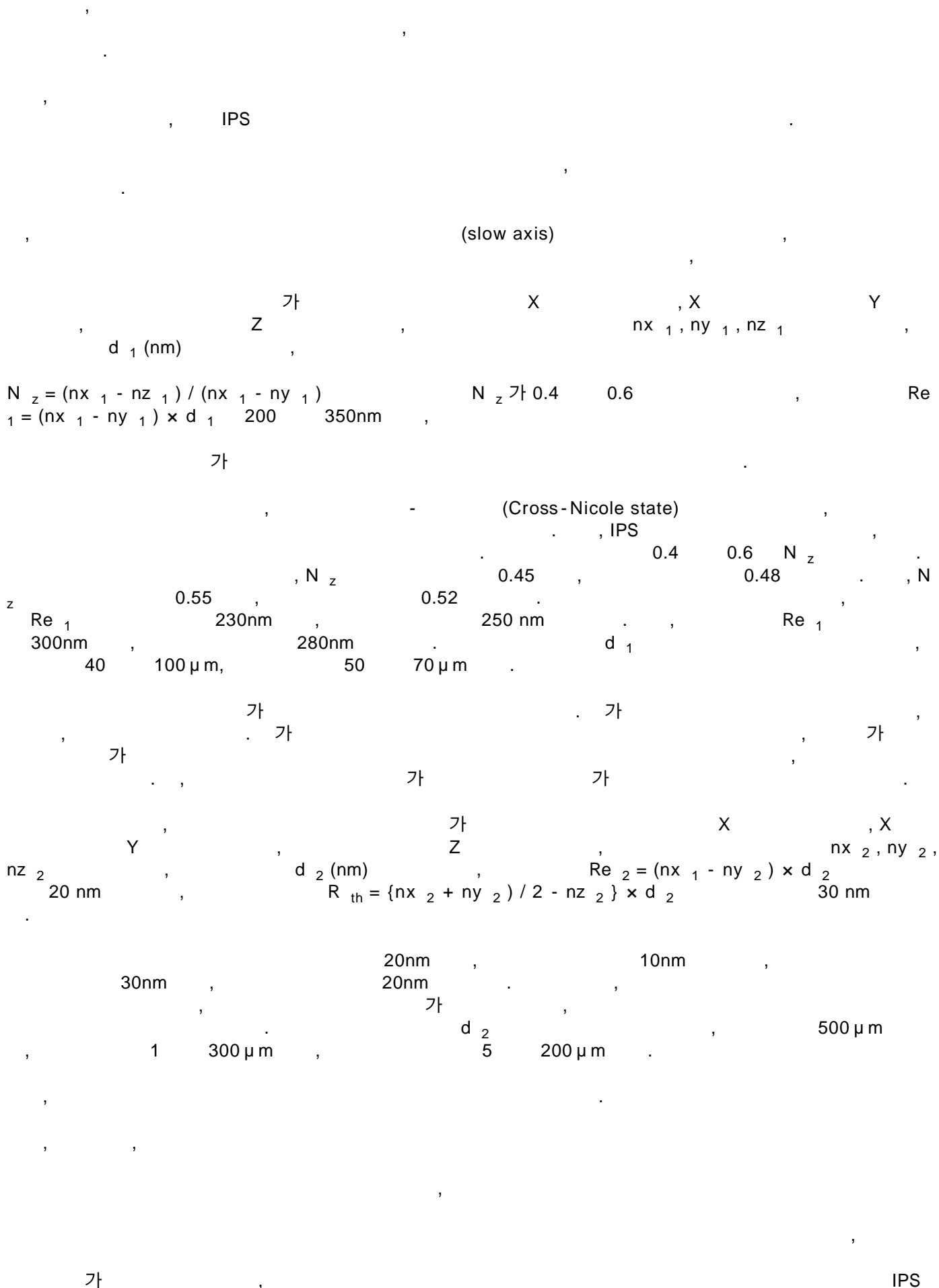
$$N_z = \frac{(n_{x1} - n_{y1}) \times d_1}{200} \times 0.4$$

$$Re_1 = (n_{x1} - n_{y1}) \times d_1$$

1 .
2 .
3 .
* *

1: 1a:
1b: 2:
3: 4: IPS

, PDP, CRC . , IPS
TN , , TN , , I
PS , 가 ,
가 .
, IPS ,
가 , 가 .
(shift)
4-371903 4-305602
(wide viewing ang
le)
4-305602 , 가 ,
, 가 .
, 4-371903 , (TAC
) , 가 ,
, TAC , 가
TAC ,



가
IPS
IPS
IPS
X
Y
Z
X
nx₂, ny₂, nz₂
d₂ (nm)
Re₂ = (nx₂ - ny₂) × d₂ 20 nm
30 nm
R_{th} = {nx₂ + ny₂} / 2 - nz₂

IPS
IPS
IPS
가
가

가

(1b) (1a) (1) (2) (1) (2) (1) (2) (1) (2)

N_z

Re₁

(polyolefin); (polycarbonate); (polypropylenes)
(polyethylene terephthalate) (polyethyle
(polyesters); (poly norbornene) (cycloali
(polyvinyl alcohols); (polyvinyl butyrals);
(polymethyl vinyl ethers); (polyhydroxyethyl acrylates);
(hydroxyethyl celluloses); (hydroxypropyl celluloses);
(methylcelluloses); (polyallylates); (polysulfones); (polyether sulfon
(polyphenylene sulfides); (polyphenylene oxides);
(poly allyl sulfones); (polyvinyl alcohols); (polyamides); (polyimides
(polyvinyl chlorides); (cellulose based polymers);
(binary copolymers); (ternary copolymers);
(graft copolymers); (blended materials)

(heat shrinking film)

(conjugated linear atomic group) (; mesogen) (discotic polymer), (cholesteric polymer) (polysiloxanes), (polya crylates), (polymethacrylates), (poly malonates), (para-substitu ted cyclic compound unit)

(dehydrated polyvinyl alcohol) (polyvinyl chloride) (5 80 μ m)

3 7 (soil) (blocking inhibitor)

(cyclo-olefin) (carbon-carbon double bond) (carbon-carbon double bond) ZEONEX, ZEONOR (), JSR CORPORATION ARTON (), ZEON CORPORATION

(AS) (sticking)

가

Figure 1. Schematic diagram of the experimental setup. The UV light source is used to illuminate the sample. The sample is placed on a stage, and the UV light is focused on the sample by a lens. The light intensity is measured by a photodiode. The sample is illuminated by the UV light, and the light intensity is measured by the photodiode. The sample is placed on a stage, and the UV light is focused on the sample by a lens. The light intensity is measured by a photodiode. The sample is illuminated by the UV light, and the light intensity is measured by the photodiode.

()

$\frac{1}{2}$, $\frac{1}{4}$ ($\frac{1}{2}$) $\frac{1}{4}$)

() ()

, 3
()

가

가

가

50

가

가

1
가

EF) ; (3M Co., Ltd. D-B
F350, Merck Co., Ltd. Transmax) (NITTO DENKO CORPORATION PC

550nm (pale color light) 1/4 1/2
1/4 ,가

2 ,가
2

VA IPS
2

n_x, n_y, n_z (Oji Scientific Instruments KOBRA21ADH)
 N_z Re_1 R_{th}
 Re_2

()
가 (ZEON ZEONOR1600R) (single screw extruder)
275 290 , 50μm
4nm Re_2 20nm R_{th}
()

(; 20 μ m)
()
, 60 μ m , 260 nm Re₁ , N_z = 5

()
2 , IPS
가

(가)
45 70
35 EZ Co
ntrast (ELDIM) 200 60 95% RH
2

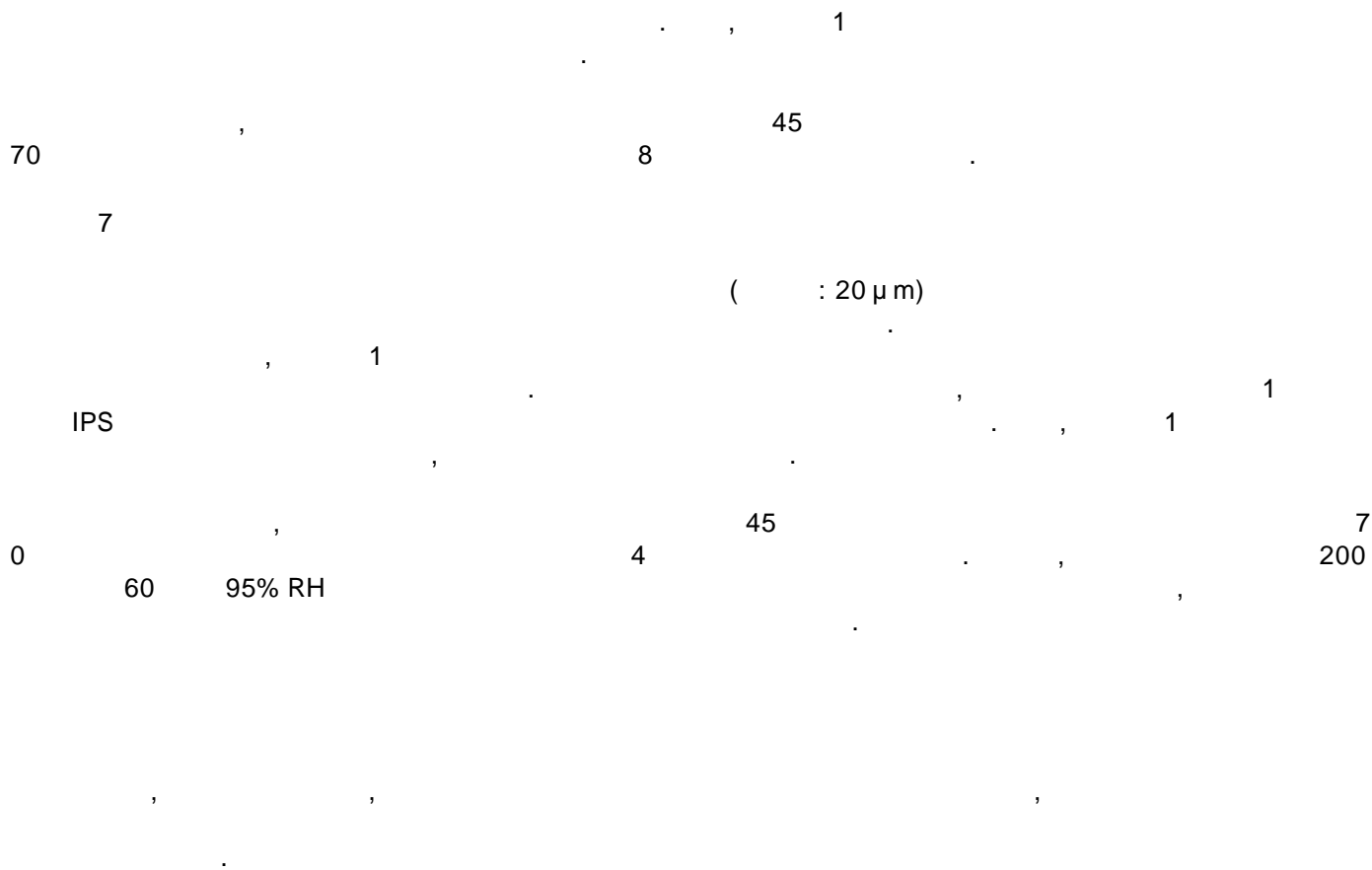
()
가 (JSR ARTON)
40 μ m
Re₂ 22 nm R_{th} 4 nm

()
(; 20 μ m)

()

()
2 , IPS
가

(가)
70 35 60 9
45 200 5%RH
1



(57)

1.

가, X, Y, nx_1, ny_1, nz_1 , d_1 (nm), $N_z = (nx_1 - nz_1) / (nx_1 - ny_1)$, N_z 가 0.4, 0.6, Re, $1 = (nx_1 - ny_1) \times d_1$ 200 350nm, 가

2.

1, 가, X, Y, nx_2, ny_2, nz_2 , d_2 (nm), $Re_2 = (nx_2 - ny_2) \times d_2$ 20 nm, $R_{th} = \{(nx_2 + ny_2) / 2 - nz_2\} \times d_2$ 30 nm, 가

3.

1, 가

4.

, 1 ,

, ,

가
IPS .

5.

4 ,

, 가 IPS

6.

4 ,

가 X , X Y
Z nx₂, ny₂, nz₂

d₂ (nm) ,

Re₂ = (nx₂ - ny₂) × d₂ 20 nm
30nm IPS , R_{th} = {(nx₂ + ny₂) / 2 - nz₂

7.

, ,

, 1 ,

가
IPS .

8.

7 ,

, 가 IPS

9.

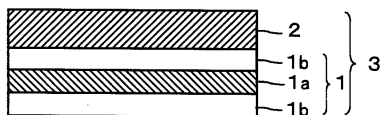
7 ,

가 X , X Y
Z nx₂, ny₂, nz₂

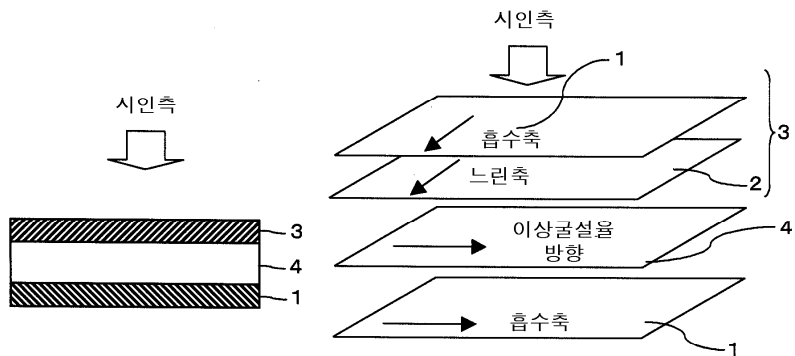
d₂ (nm) ,

Re₂ = (nx₂ - ny₂) × d₂ 20 nm
30 nm IPS , R_{th} = {nx₂ + ny₂ } / 2 - nz₂

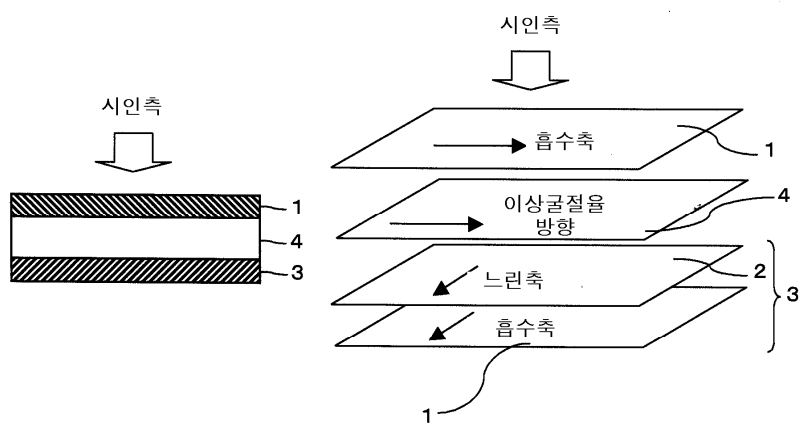
1



2



3



专利名称(译)	光学薄膜和图像显示系统		
公开(公告)号	KR1020030079706A	公开(公告)日	2003-10-10
申请号	KR1020030019291	申请日	2003-03-27
[标]申请(专利权)人(译)	日东电工株式会社		
申请(专利权)人(译)	日东电工 (株) 制		
当前申请(专利权)人(译)	日东电工 (株) 制		
[标]发明人	YANO SHUUJI 야노슈우지 MAEDA HIROE 마에다히로에 NISHIDA AKIHIRO 니시다아끼히로		
发明人	야노슈우지 마에다히로에 니시다아끼히로		
IPC分类号	G02F1/13363 G02B5/30		
CPC分类号	G02F2413/01 G02F2202/40 G02F1/13363		
代理人(译)	韩国专利公司		
优先权	2002098874 2002-04-01 JP		
其他公开文献	KR100822247B1		
外部链接	Espacenet		

摘要(译)

在影响液晶显示系统时，它在宽范围内具有高对比度。它可以在高温高湿条件下实现稳定的相移值。相位差板，偏振片和光学膜。

