

(19) (KR)
 (12) (A)

(51) . Int. Cl.⁷
 G02F 1/13

(11)
 (43)

10-2004-0017239
 2004 02 26

(21)	10-2003-7016648		
(22)	2003 12 19		
	2003 12 19		
(86)	PCT/US2002/019506	(87)	WO 2003/001280
(86)	2002 06 20	(87)	2003 01 03

(30) 60/299,886 2001 06 21 (US)

(71) 55133-3427 . . 33427

(72) 偈 ,
 ,45242 , , 9836
 ,45208 , , 3302

(74)

:

(54)

(11) LCoS (37)	(21) (13)	(39)	(30, 31, 33)
(15, 17) (41, 43)			,

偈

, LCoS (color wheel) DLP (single chip DLP projector)
 (relaxation time) (frame by frame) 가 가
 , 2000 2 2 EP 0977422 A2 6,266,105 B1('105)
 , '105 Brennesholtz,
 Matthew S. LCoS (Color-Sequential LCoS Projector with a Rotating Dr
 m)(SID 2002, 51.4, 1346 1349 , 2002) , '105

, , LCoS ()

(a)

(b)

(a)

(b)

(c)

1
2 1
3 1 LCoS ㅏ
4 2
5 4
6 ㅏ 4
* *
11 :
13 :
15 :
17 :
19 :
21 : , LCoS
23 : (21)
25 : ()
27 : ()
29 : (23)
30 :
31 :
33 :
35 :
37 :
39 :
41 :
43 :
45 :

47 :

49 :

51 :

53 :

55 : 가

LCoS (row-by-row)

(39) . . . ,
 (15) (37) (assembly; 13) (30, 31, 33)
 (39) (integrator; 17)

,
2001 9 27 PCT WO 01/72047 6,361,172

(17)(1997 4 29) 1 . , (11) (15),
ormly Illuminating a Light Valve)', 5,625,738 (Apparatus For Unif
(15) (17) (entrance window) (13) (19)
) (21) (exit window) . (19)

1 UV , (cold mirror) /
., , 6,139,157

가 , 가 가

$$1 \quad . \quad , \quad (13) \quad (45) \quad (37)$$

, (39) 가 가 가 /

2 (13), 가 (45) 1
 (opaque strip; 35) (30, 31, 33)
 (dichroic filter) ()

$$\text{가} \quad (23), \quad (\quad) \quad (3 \quad). \quad (21)$$

x=0.30 y=0.31

(relaxation time)

가 .
가

1 (13) 4
 (plano-parallel plate) (segment)(51)

(housing) . 5 6
가 (angle-ground)

(-5), (gap)

$$(-3), \quad (-3). \quad ,$$

가

가

(39)

()가

(high pressure mercury arc lamp; UHP

) 가

가

$$, \dots), \dots) \quad , \quad , \dots).$$

가

71

가

)

(57)

1.

(a)

(b)

가

2.

1

(dichroic filter)

3.

1 ,

4.

1 ,

(opaque strip)

5.

1 ,

6.

1 ,

(segmented)

7.

6 ,

가 (angle-ground edge)

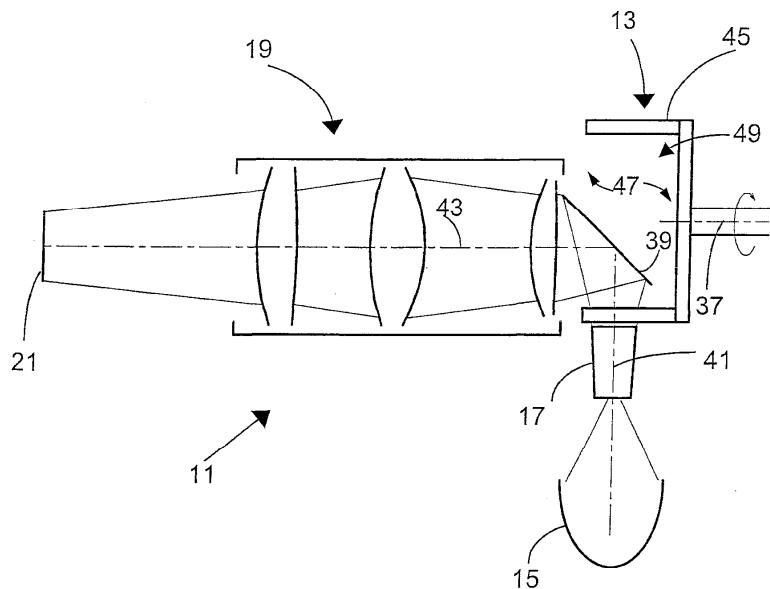
8.

(a)

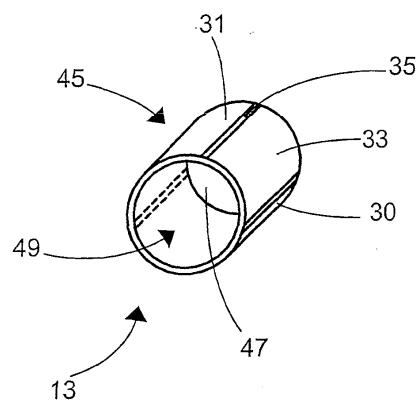
(b)

(c)

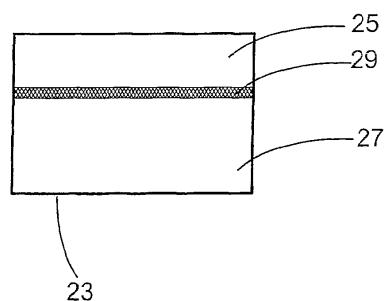
1



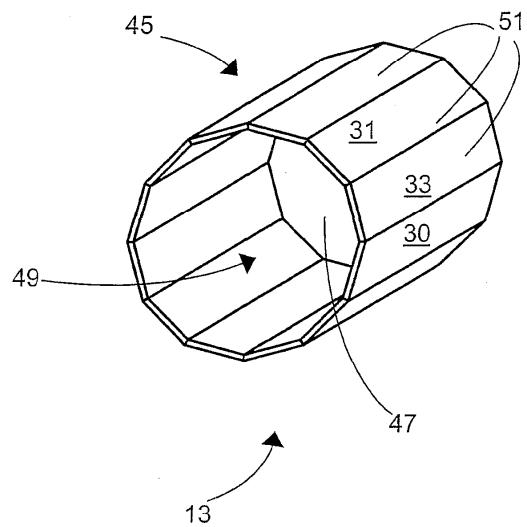
2



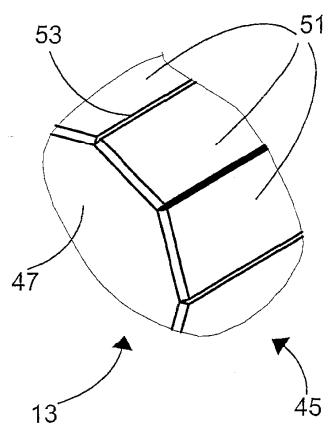
3



4



5



6

