

(19)  
(12)(KR)  
(B1)

(51) 。 Int. Cl. <sup>7</sup>  
F21V 7/22

(45)	2003	01	24
(11)	10 - 0369109		
(24)	2003	01	09

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(21)	10 - 2000 - 0059809	(65)	2001 - 0050961
(22)	2000 10 11	(43)	2001 06 25

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(30)	11 - 301958	1999 10 25	(JP)
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(73)	가 가 2 4 - 1	
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(72)	,392 - 8502, 가 - , - , 3 - , 3 - 5,	가 가
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(74)

:

(54)

,  
0.005(cal/cm · sec · deg) 20

4

1 (120)

2 1 (120)

3 (reflector) (124) 가

4 가

5

100 . . .

1000 . . .

120 . . .

120ax . . .

122 . . .

122a . . .

122c . . .

122n1, 122n2 . . . (lead)

124 . . .

124R, 124R' . . .

124h . . .

124n . . . (neck)

126 . . . (前面)

190 . . . (fan)

200 . . .

220 . . . (relay)

300R, 300G, 300B . . .

320 . . .

340 . . .

SC . . .

, , ( ) ,

· · · (xenon) · · · (硬質)

( ) . , , , 가  
‘ , , , 가 . , , ,  
, 200 가 . , , ,  
가 . , , , 가 . , , ,

1 , ,

20 0.005(cal/cm · sec · deg)

,  
가 .

$$0 \quad 200 \quad , \quad 0.004 \text{ (cal/cm} \cdot \text{sec} \cdot \text{deg})$$

, 가 .

$\text{Al}_2\text{O}_3$  ,  $2\text{MgO} \cdot \text{SiO}_2$  ,  $\text{MgO} \cdot \text{SiO}_2$  ,  $\text{ZrO}_2 \cdot \text{SiO}_2$  ,  $\text{TiO}_2$  (系) ,  $\text{SiC}$  ,  $\text{Si}_3\text{N}_4$  ,  $\text{ZrO}_2$  , (c  
ermet) 가

(前面)

, 가 .

2

1

가

(光線束)

1 가 .

가

( )

A.

1 (120) . (120) , (124) , (前面)  
(126) , (124) , (124) , (120)  
, (126) , (124) , (124) ,  
(+z )



$$, \quad 3 \quad (\text{Al}_2\text{O}_3) \quad 90\% \quad , \quad 3.6 \\ (\text{Al}_2\text{O}_3) \quad (\text{w}1) \quad , \quad (\text{飽水試料}) \quad (\text{w}2) \quad (\text{w}3) \quad , \quad \{ = \text{w} \\ 1/(\text{w}2 - \text{w}3) \quad , \quad (124) \quad (124) \quad , \quad (124) \\ (\text{124R}, \text{124R}') \quad$$

3 ,  $(2\text{MgO} \cdot \text{Al}_2\text{O}_3 \cdot 5\text{SiO}_2)$  (mullite)  $(3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2)$

4 , 가  
 $(Al_2O_3)$ ,  $(SiC)$ , . 4 , 3

$$(\text{Si}_3\text{N}_4) \quad (\text{ZrO}_2) \quad . \quad , \quad ,$$

20 0.005 (cal/cm · sec ·

deg)	,	0	200	0.004(cal/cm · sec · deg)	.	,	
	,		20	0.0016	0.0029(cal/cm · sec · deg)	,	, 0
200		0.001	0.005(cal/cm · sec · deg)	.	4	,	200
			0.004(cal/cm · sec · deg)				(124)
,	(122)			(124)		,	(122)
가	.	,	4			(SiC)	
가	가						

0.005(cal/cm · sec · deg)

가

B.

5 , (200) , (220) , 3 . (1000) , (100) ,  
(320) , (340) . (300R, 300G, 300B) ,

(100) , (100) , (200) (R), (G), (B) 3  
 (300R, 300G, 300B)

가 . , (300R, 300G, 300B)  
(320) , (340)

(SC) 5

(1000) , (100) , 1 (120) 가  
(120) , (124)  
(120) (1000) , ( )  
(120) , . . ,

, (120) (190) . , (124)  
,

, 가 , , 가 . 가

(1) ( ) 가 (120), (124) (124R), (124R') (124)

$$(2) \quad 1, \quad 2 \quad , \quad (124) \quad (124R)$$

(3) (120) 1, 2 , , (126)  
     , (122) 가 , , (126)  
     (126) , (124) (126)  
     , (122) 가 .

(5) , (1000) ,  
or device) (TI ) 가 . , DMD( , ) (digital micro mir

0.005(cal/cm · sec · deg)

(57)

1.

20 0.005 (cal/cm · sec · deg)

2.

$$1 \quad , \quad 0 \quad 200 \quad , \quad 0.004(\text{cal/cm} \cdot \text{sec} \cdot \text{deg})$$

3.

2, Al<sub>2</sub>O<sub>3</sub> , 2MgO · SiO<sub>2</sub> , MgO · SiO<sub>2</sub> , ZrO<sub>2</sub> · SiO<sub>2</sub> , TiO<sub>2</sub> , SiC ,  
Si<sub>3</sub>N<sub>4</sub> , ZrO<sub>2</sub> , 가 .

4.

1 , (前面板)

5.

1

6.

1

7.

(光線束)

20                    0.005(cal/cm · sec · deg)

8.

7                    ,                    0                    200                    0.004(cal/cm · sec · deg)

9.

8                    ,                     $\text{Al}_2\text{O}_3$             ,             $2\text{MgO} \cdot \text{SiO}_2$             ,             $\text{MgO} \cdot \text{SiO}_2$             ,             $\text{ZrO}_2 \cdot \text{SiO}_2$             ,             $\text{TiO}_2$  (系)                    ,                     $\text{SiC}$                     ,                     $\text{Si}_3\text{N}_4$                     ,                     $\text{ZrO}_2$                     ,                    가

10.

7                    ,

11.

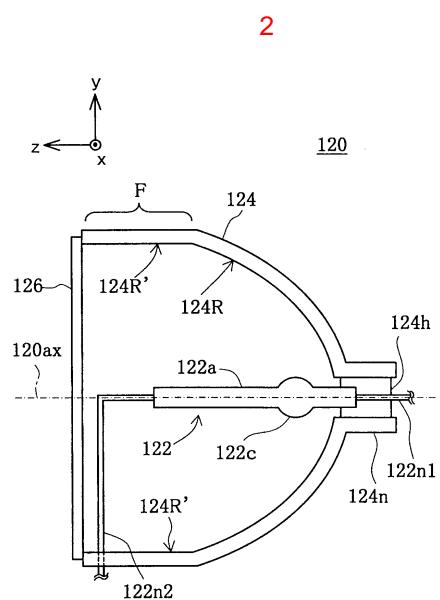
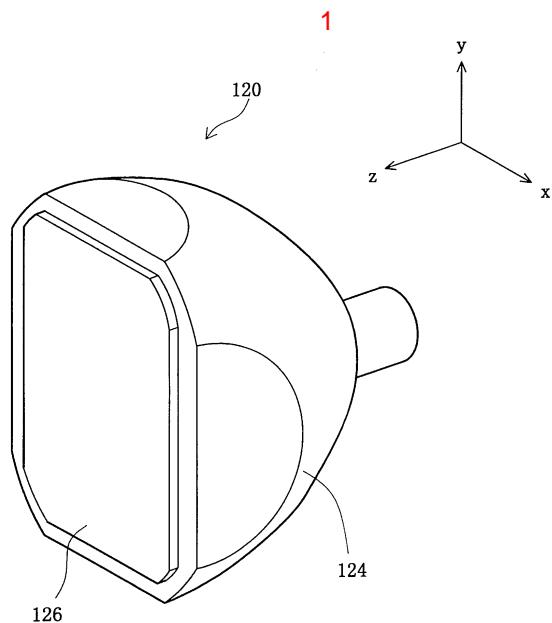
7                    ,

12.

7                    ,

13.

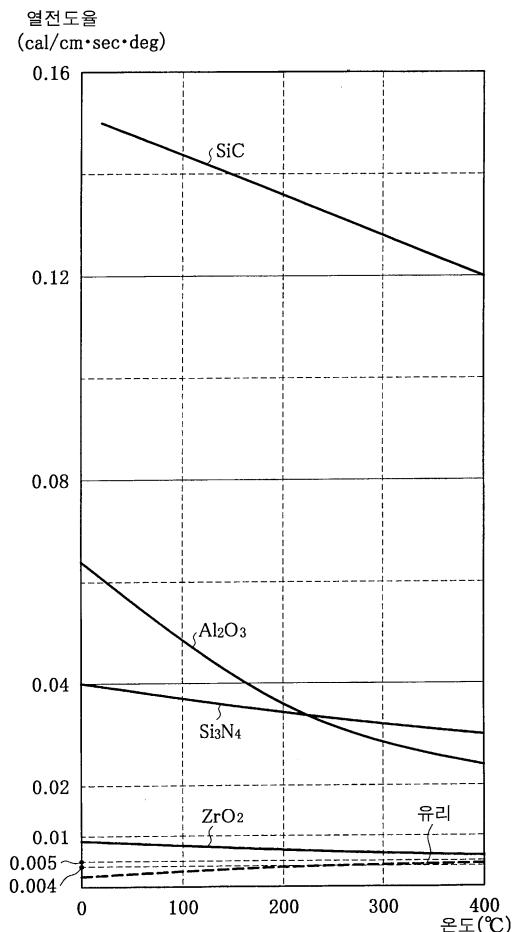
7                    ,



3

재질	열전도율(cal/cm·sec·deg) (20°C)
일루미나 $\text{Al}_2\text{O}_3$	0.04~0.07
단결정 사파이어 $\text{Al}_2\text{O}_3$	0.1
플스테라이트 $2\text{MgO}\cdot\text{SiO}_2$	0.008
스테아타이트 $\text{MgO}\cdot\text{SiO}_2$	0.006~0.009
지르콘 $\text{ZrO}_2\cdot\text{SiO}_2$	0.012
티타니아계 $\text{TiO}_2$ 계	0.008~0.013
탄화규소 $\text{SiC}$	0.15~0.17
질화규소 $\text{Si}_3\text{N}_4$	0.04~0.07
지르코니아 $\text{ZrO}_2$	0.009~0.014
서밋	0.03~0.04

4



5

