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(12)

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(22) 2001 12 04

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18 808

(74)

:

(54)

(electron oscillation)

(hollow) (cathode)

가

(micro hollow)

1 2 가 가 2 , 1 2 , 1 1 ,

1

1 .
 2 .
 3 1 2 (microhollow cathode) .
 4 .

-- --

11, 12 : 1 12, 22 : 2

K1 K4 :

A : (glass plate) B :

C : (electrode) D : (dielectric layer)

(electron oscillation) (cathode)
 가 가 (hollow)
 가 (Ar) 가 2 (Hg) (N₂)
 가 (emitter) (glow lamp)
 가 2 가
 가 가 가
 (Hg ; mercury)
 ()
 가

(electron oscillation) 가 (hollow) (cathode) 가

가 (micro hollow) 1, 1 가 2, 1, 2 가 가

가 (micro hollow) 1, 1 (micro hollow) 2, 1, 2 가 가

1, 3, 1, 2 (microhollow cathode) 2

1, 2 (12, 22) 가 가 (11, 12)

1 (K2; Cathode 2) 1 (11) 가 1 (K1; Cathode 1) 2 (12) 가

2 Cathode 1) 2 (K2; microhollow Cathode 2) 1 (21) 1 (K1; microhollow ohollow Cathode 3) 4 (K4; microhollow Cathode 4) 2 (22) 3 (K3; micr

1, 2 (B) 1 (11, 21) 2 (12, 22) (B)

(Potential) 가 (Anode) 가 (Anode) (Cathode) (Cathode), 가 (mechanism) 가 가 가

t

e) 가 (K1 K4) t (Anode) (Cathod) (K1 K4)

(Cathode)

1 (11, 21) 2 (12, 22)

가

(A ; glass plate), (C ; electrode), (K1 K4) 3 (D ; dielectric layer)

(microhollow cathode) (cathode) (electron oscillation) 가 가
 (hollow) (hollow) 가

(A) (C) (D)

(K1 K4) (B) (exicted) (ionized)
 (phosphor)

(electron oscillation) (microhollow cathode) (cathode) 가 가

$\times (p \cdot D)$
 $\times (p \cdot D)$

(Pachen curve)

(K1 K4 ; microhollow cathode) 가 가

(exicted) (ionized)

4

가 1 (11) 2 (12) (B)

1 2 (12) 가 4 (A) 1 (11) (B)
 panel lamp) (12) 가 5 (B) (reflective type flat
 가 (12) (B) 1 (11) 2 (12) (transmission type flat panel lamp)
 (Hybrid type flat panel lamp) 가 (B)

가 2 1 (11) 2 (12) (B) (B)

가

LCD , 가

(57)

1.

가 (micro hollow)

1 ; ,

1

2

1 2

가 가

2.

가 (micro hollow)

1 ; ,

1

가

(micro hollow)

2

1 2

가 가

3.

1

2

1 2

(glass plate);

ow)

(electrode); ,

(electron oscillation)

(micro holl

(dielectric layer)

4.

1

1

(reflective type flat panel lamp)

5.

1

2

(transmission type flat panel lamp)

6.

1

2

1 2

(Hybrid type flat panel lamp)

4

