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(51) 。 Int. Cl. 7  
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2003-0045540  
2003 06 11

(21)10-2001-0076293  
(22)2001 12 04

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(72)

23 202

30-17

18 808

(74)

:

(54)

, (electron oscillation) .  
가 (micro hollow)  
 , 가  
가 .  
 ,  
 .

1 .  
 2 1 .  
 3 1 2 .  
 -- --  
 10 :  
 101 : 102 :  
 103 : (micro hollow)  
 20 :  
 201 : 202 : (ITO )  
 203 : (glass plate) 204 :

(electron oscillation)  
 가 ,  
 Hg) (Ar) 가 2 ( (g  
 (emitter) , 가  
 low lamp) .  
 가 가 가  
 (Hg ; mercury)  
 ,  
 ( ) 가 .

(electron oscillation)

가 ,

가 (micro hollow) ,

가 가

1 3 1 2 , 2 1

Hz discharge) (electrodeless) KHz M (capacitive coupled)

(dielectric barrier discharge)

(high frequency)

1 3 , (10) (20)

(10) 가 (101) (101) (101) (101) (103 ; micro ho 가

(102)가 (10) (102)

(103) 가 1 ,

(20) (203) (201 ; dielectric), (202), (203 ; glass plate)가

(204)

(201) 가 (201) (202) (202) (203)

(10) 가 (204)

(10) (20) 가 가

ect) 가 (103) (103) (103) (pendal eff 가

(ionization)가 (breakdown voltage) (high efficient)

(dielectric barrier discharge)  
(electrodeless)

(101)

(102)가

(cathode)

(electron oscillation)

(103 ; micro hollow)

가

가

(103 ; micro hollow)

(Pachen curve)

(p · D)

(103)

(10)

(20)

가

(103)

가

(20)

(exic

ted)

(204)

(ionized)

(101)

(103)

가

가

(electron oscillation)

(103)

cted)

(ionized)

(204)

(phosphor)

(B)

(exi

가

가

(203)

(202)

(101)

가

(201)가

(201)

ITO(Indium Thin Oxide)

(202)

(electrodeless)

(Fluorescen

t Lamp)

가

가

(101)

가

(202)

가

가

RF(Radio Frequency)

가

가

(high frequency)

MHz

RF

가

KHz

1.

가

(micro hollow)

;

,

가 가

,

.

2.

1

,

가

;

(dielectric barrier)

,

.

3.

1

,

;

가

;

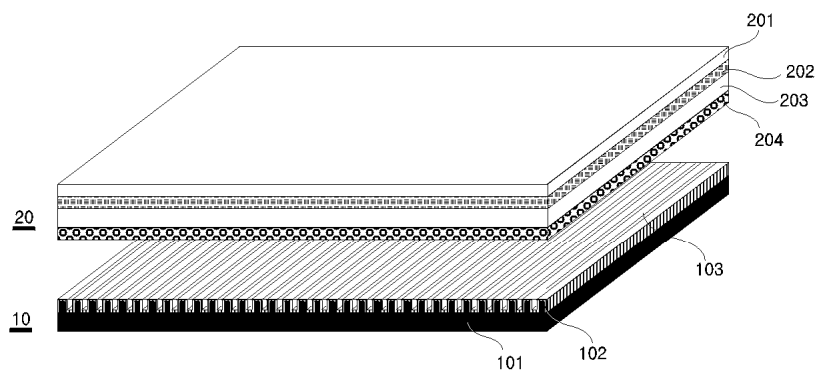
lass plate)

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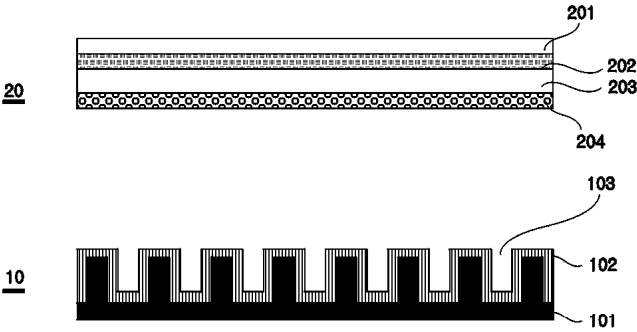
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