

(19)
(12)

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(43)

10-2004-0089582
2004 10 21

(21) 10-2004-0025438
(22) 2004 04 13

(30) 10/412,215 2003 04 14 (US)

(71)

, ,

(72)

12309 2338

12180 1535

12084 8

44124 1233

(74)

:

(54)

(12), (10) 200 300nm (14, 32)
, (44) .

3

1

2 SiC

3 가

4 가

5

6 , 300nm

SiC

7

8

UV LED

가

9

가

(shutter)

*

10 - 12 - SiC

14 - 16 - (header)

18 - 20 - SiC

22 - (epitaxial) 24 -

26 - 28 -

32 - 34 -

36 - 38 - UV

42 - 44 -

46 - 48 - 가

50 - 52 - UV

54 -

(tailored)

200 300nm , 265nm
 600nm

가 300nm , 300nm
 , 300nm

C) () 가 (Si

1000nm (challenging attenuation)
 가 (UV) Si 가
 UV

SiC SiC
 200 400nm , 270nm (1). SiC
 (300 400nm) UV

1 SiC 2 300nm 300nm SiC
 , SiC 300 400nm
 , 300 nm

가

200 300nm

200 300nm

3 , (14)가 SiC (12) (10)
 (14) SiC (12)
 (robust) (10)
 가 (16) (mount) 3 , SiC
 SiC (20)
 (18) , n + () (24) p - () (22)
 (22, 24) (14)

가 Au (26)
 Au) (28)
 (lead)
 가
 (32) (34) SiC (12) UV
 (38) (36) 가
 가 1000
 UV
 / (photomultiplier tube) 200
 300nm 가
 (12) AlGaN (cutoff) 30
 GaN 365nm Al 26% 가 AlGaN SiC
 Onm 가 SiC 가 AlGaN 가
 (InGaN)가 (AlGaN), (GaN), (GaAsP), (ZnO₂), (AlInGaN), (AlN),
 가 () 가
 가
 (14) 300nm SiO₂, HfO₂, Si
 O₂ / Si₃N₄
 (band-pass filter) 254nm (14)가 Hg
 GaAsP, ZnO₂, AlInGaN, GaN, AlGaN, InGaN, AlN
 (Shott filter) 가
 5, SiC () ()
 (254nm) 가 () 가 (265nm)
 가 258nm 270nm
 , 300nm
 SiC 가
 6 254nm 30
 Onm () () (300nm) 가 ()
 /) (300nm) 가
 SiC

() , (10) (feedback networ
 k) 가 가 , ,
 , 7 , (10) (42)(, CPU) (44)
 (44) (42) (10) ,
 (12) , 8 , 200 , 400nm 가 (46)
 . 가 UV (46) UV LED , (48)
 (50) UV (52) , 9 (54) , 가

가

가

(57)

1.

(12);

(14, 32)

2.

1

(14, 32)가 200 300nm

3.

2

(12)가

4.

3

(12)가

5.

3

(12)가 , (GaAsP), (ZnO₂), (AlN), (In
 (AlGaN), (GaN), (AlInGaN)

GaN)

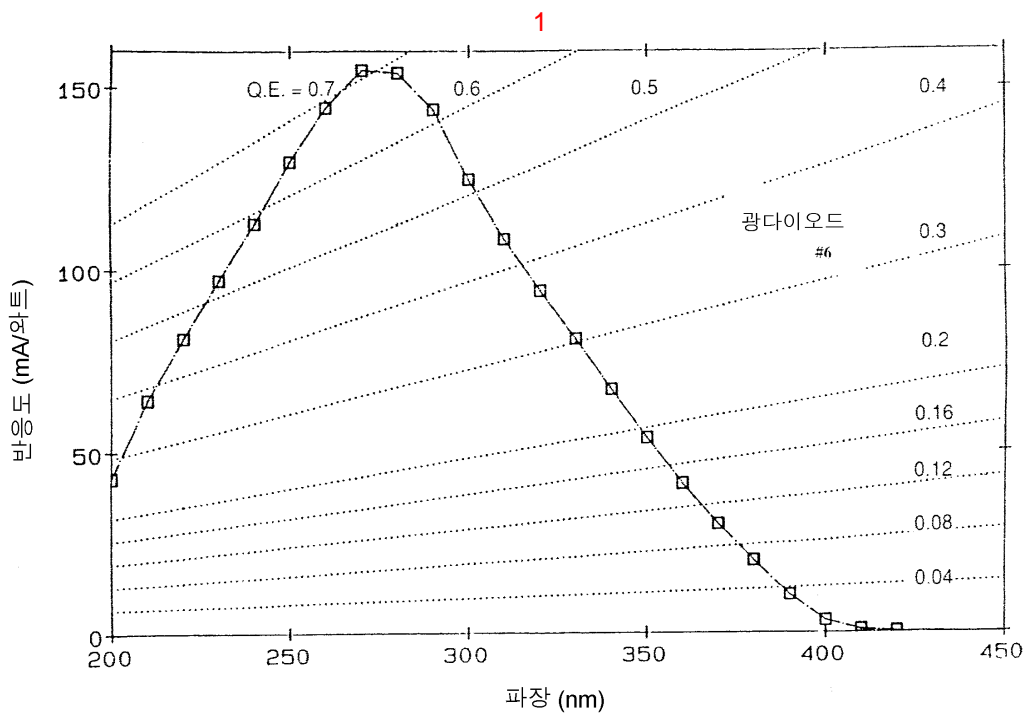
6. 2 ,
 (12)가 (photomultiplier tube) .

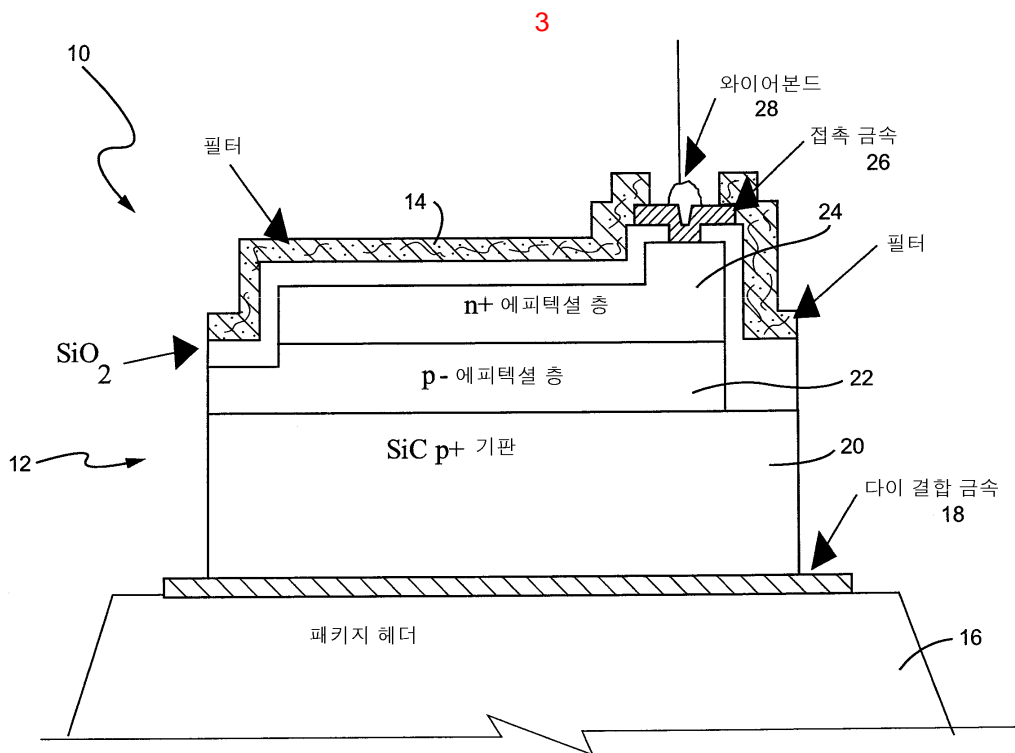
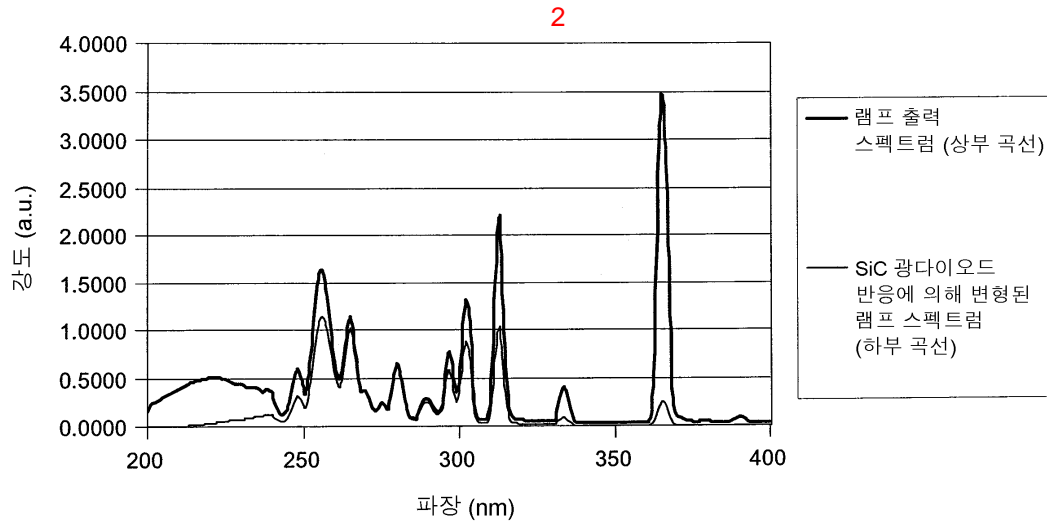
7. 1 ,
 (14, 32)가 220 300nm - (band-pass filter) .

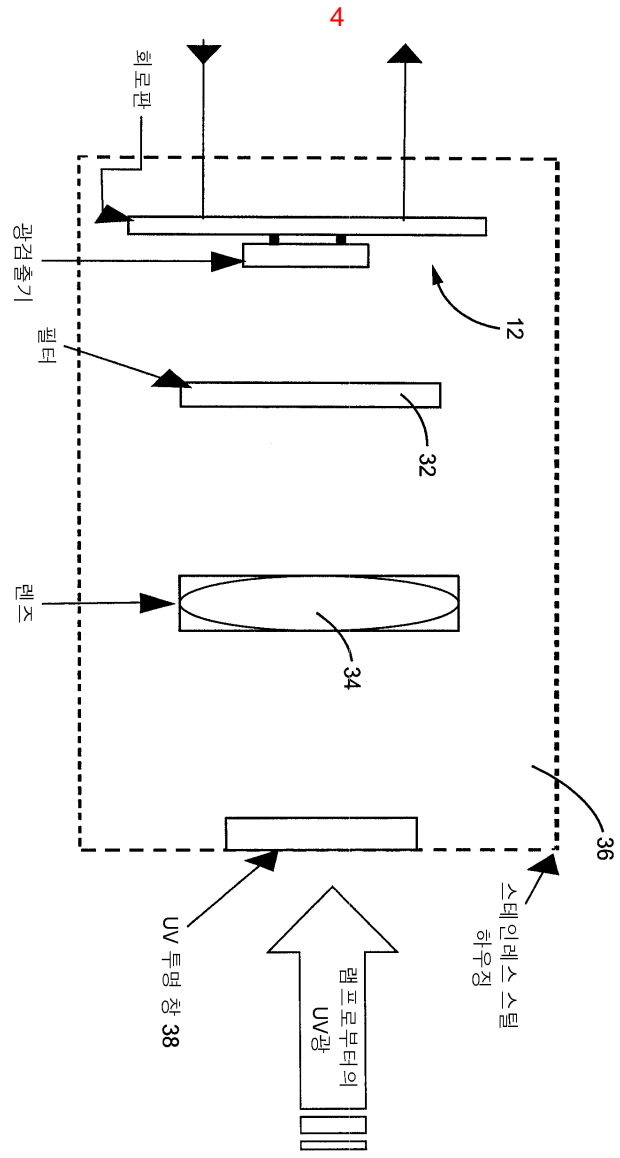
8. 1 ,
 (12) (14, 32)

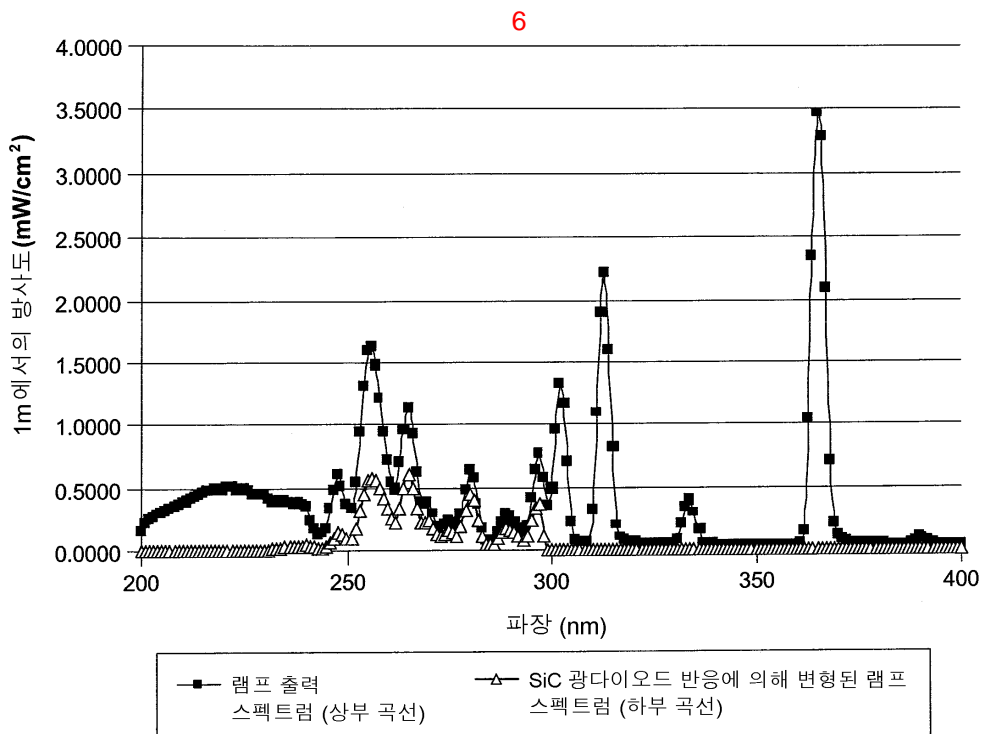
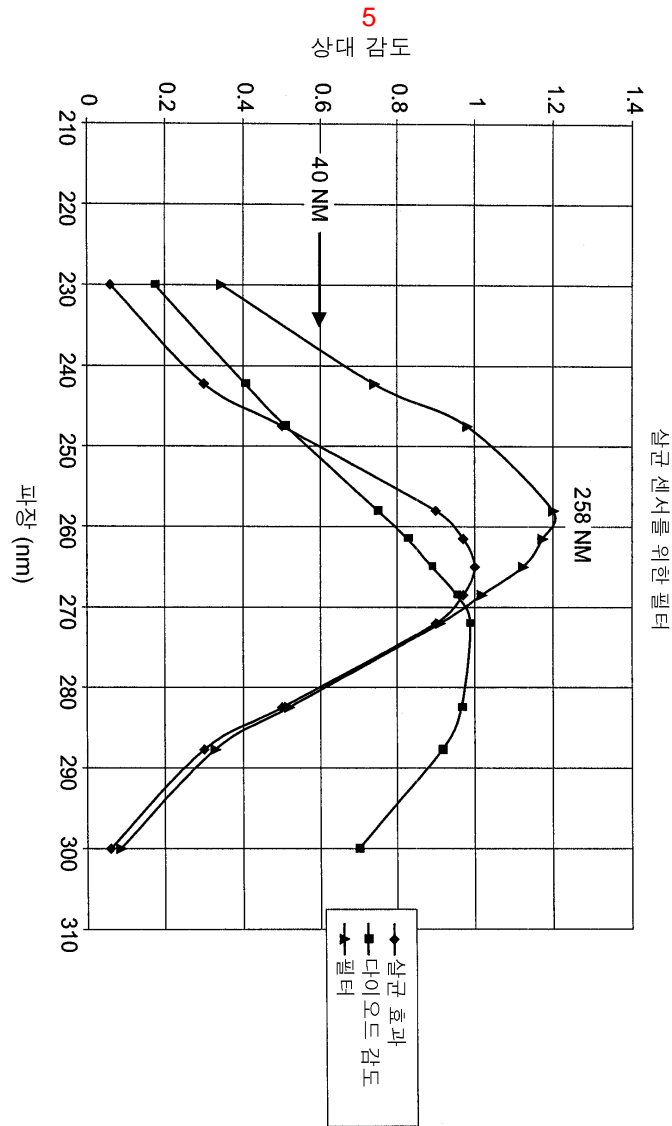
9. 1 ,
 (14)가 (12)

10. 1 ,
 (32)가 (12)

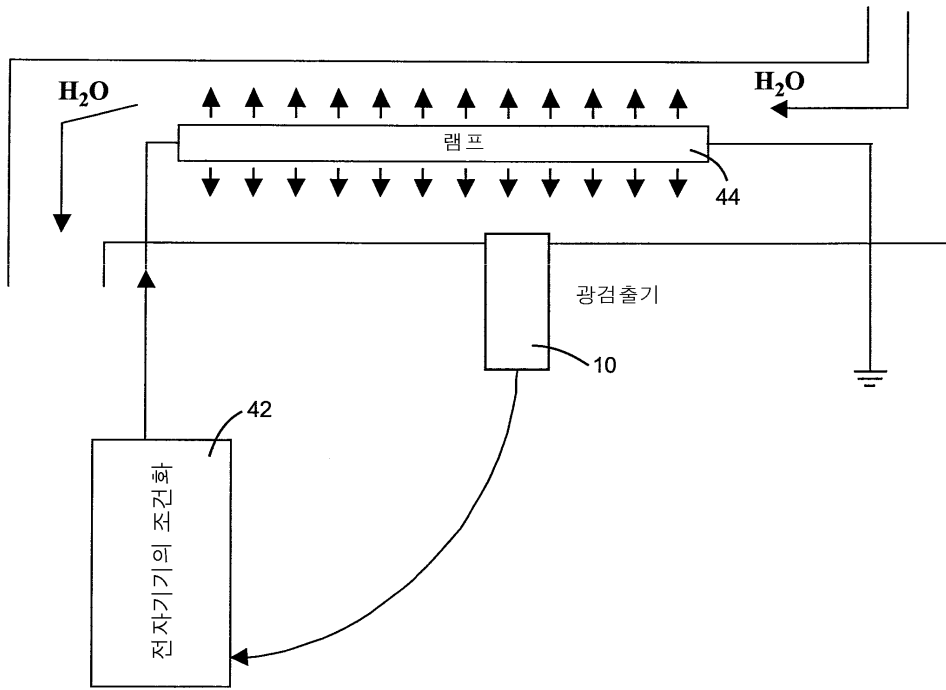








7



8

