

(19)
(12)(KR)
(B1)(51) 。 Int. Cl. ⁷
G01N 27/00(45)
(11)
(24)2002 12 31
10 - 0366366
2002 12 13(21) 10 - 2000 - 0048922
(22) 2000 08 23(65)
(43)2002 - 0015808
2002 03 02

(73)

375

(72)

375

357 - 20

584 - 20

268

105 - 704

974 - 3

(74)

:

(54)

가

가

(Au)

1

1

2

3

1

2

(selectivity),

(speed),

(reversibility),

(reliability)

(stability),

(sensitivity),

()

가

가

200 - 700

가

가

가

200 - 700

가

2

(Al2O3)

2

(Resister Heater),

(Ins

ulation Materials),

(Sensing materials)

(The Stannic Oxide

Gas Sensor, p.11 - 47., 1993, CRC press)

(Al2O3)

(Resister Heater)

(Insulation Materials)

(Joul Heatin

g)

가

가

가

가

(Au)

5 μ m

1 (Positive temperature coefficient : PTC (Insulation Materials) , PTC (PTC Heater) (Insulation Materials) , PTC (PTC Heater) (Sensing materials) 5cm, 5cm (BaTiO3) (BaTiO3) PTC (PTC Heater) (silicon) (Insulation Materials) PTC (PTC Heater) (silane) 가 (chemical vapor deposition : CVD) (PVD : physical vapor deposition) , PTC (Insulation Materials) Au (paste) (Sensing materials) (wafer cutting) , BaTiO3 PTC 가 (PbTiO3), (Nb2O5), (Al2O3) (Sio2)) PTC (PTC Heater) CVD(PVD) 5 μ m 가 (Insulation Materials) , PTC (PTC Heater) (Insulation Materials) (Sensing materials) PTC (PTC Heater) (Sensing materials) (Se r) nsing materials)() , 2 PTC(positive temperature coefficient) (PTC Heater)(B aTiO3) 가 , PTC (PTC Heater) (Sensing materials) (S nsing materials) PTC (PTC Heater) (Insulation Materials) (Insulation Materials) PTC (PTC Heater) (Sensing materials) . 3 1 2 가 가

가 .

(57)

1.

가 ;

;

가

;

;

(Au)

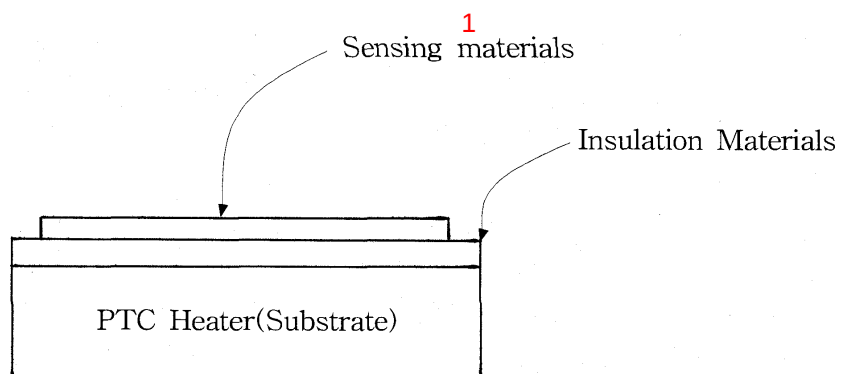
2.

1 ,

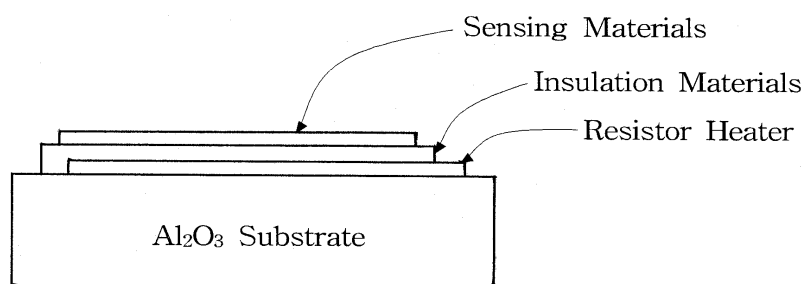
3.

1 ,

5 μ m



2



3

항목	발명기술	종래기술
온도편차	+/-3% 이내	+/- 7%
장기신뢰성	1000hr까지 안정	700hr부터 특성 저하