



# AA Instrument



**1.**

**2.**

**3.**

**4.**

**5.**

**6.**

**7.**

1.

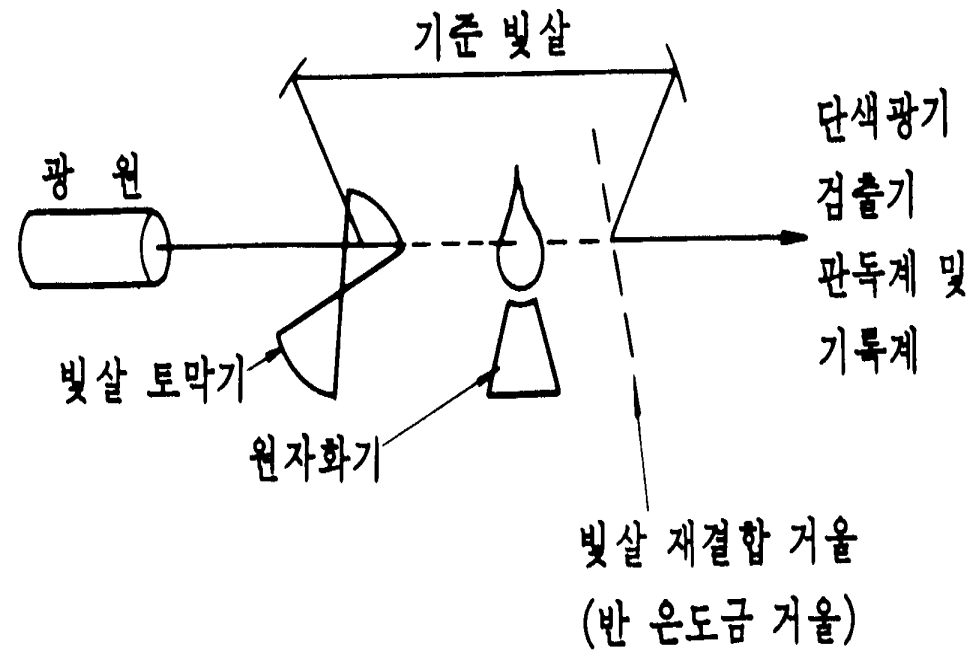


Fig.1.

2.

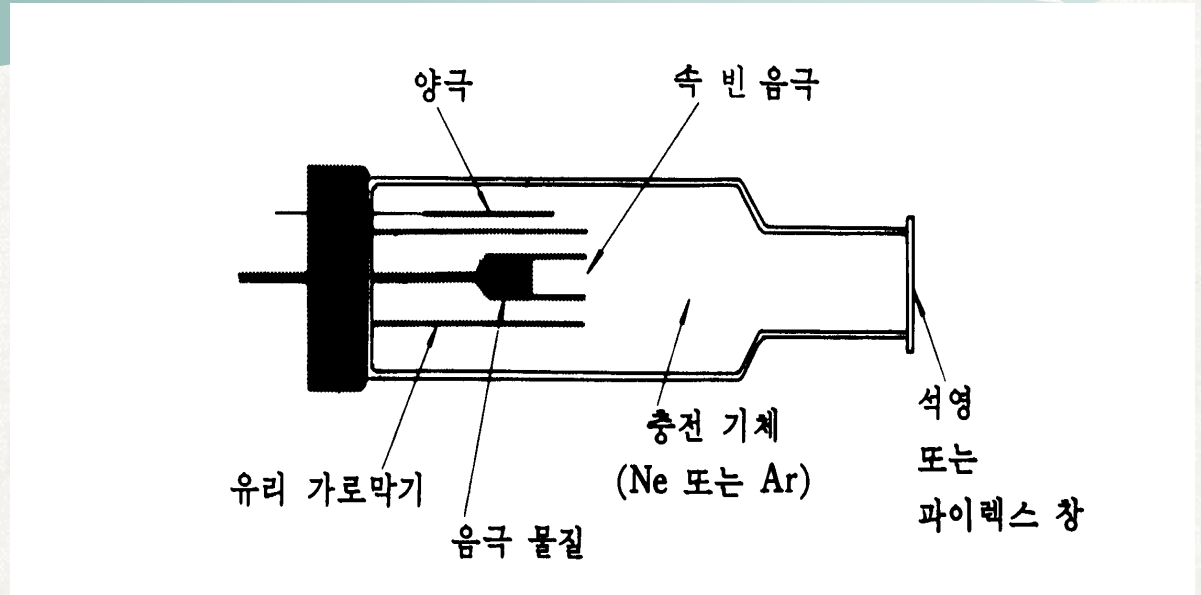
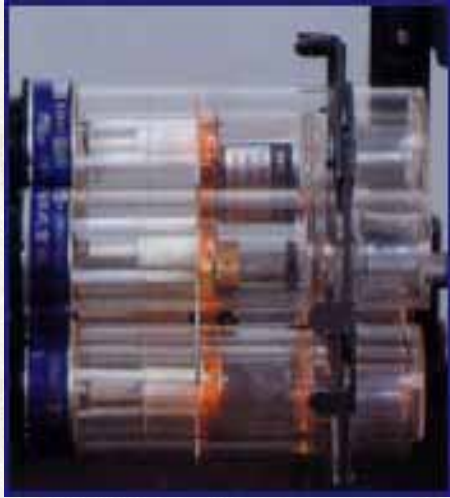
-

- (hallow cathode lamp)

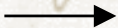
( )

- (electrodeless discharge lamp)

1)



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- 100-200V, 5-10mA

- Fe, Ni : Ne

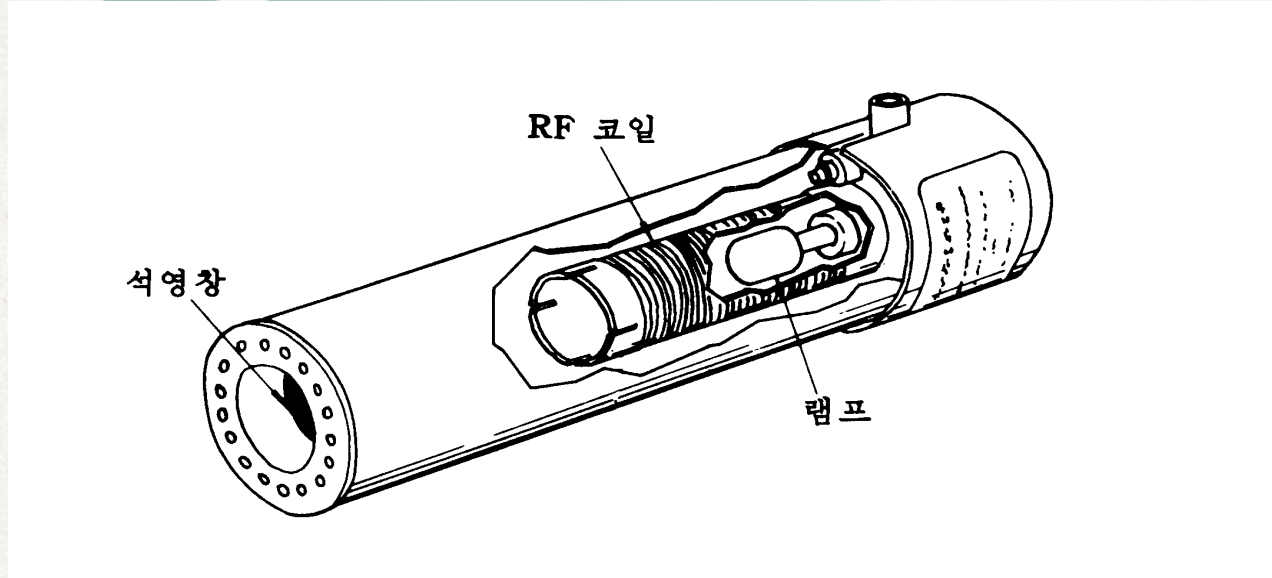
- Li, As : Ar

- 1-10mmHg

- - 가

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2)



27MHz

가

As, Se, Te

### 3.

#### 1) (flame atomizer)

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- 가
- 가 .

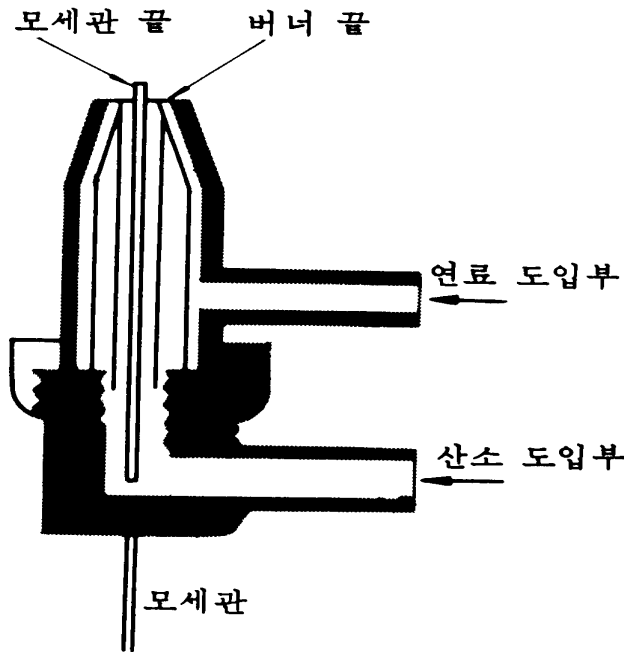
#### 2) (flameless atomizer)

- ( , , )
- , , )
- ( 가 )
- 가
- , .

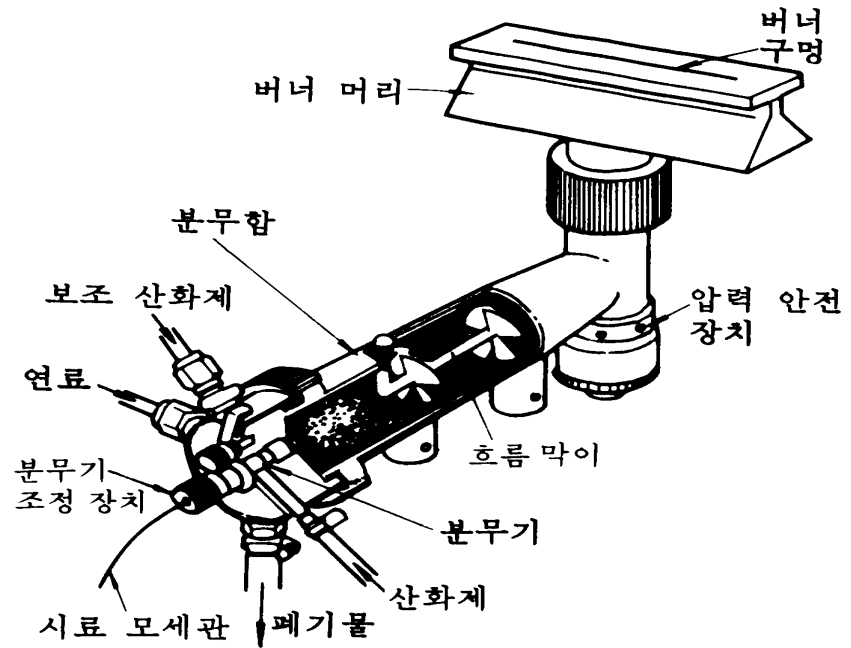


1)

가



(a) 전체 소비식 원자화기



(b) 예비 혼합식 원자화기

• **Total consumption atomizer ( )**

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가

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가

가

가

# • Premix atomizer( )

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가



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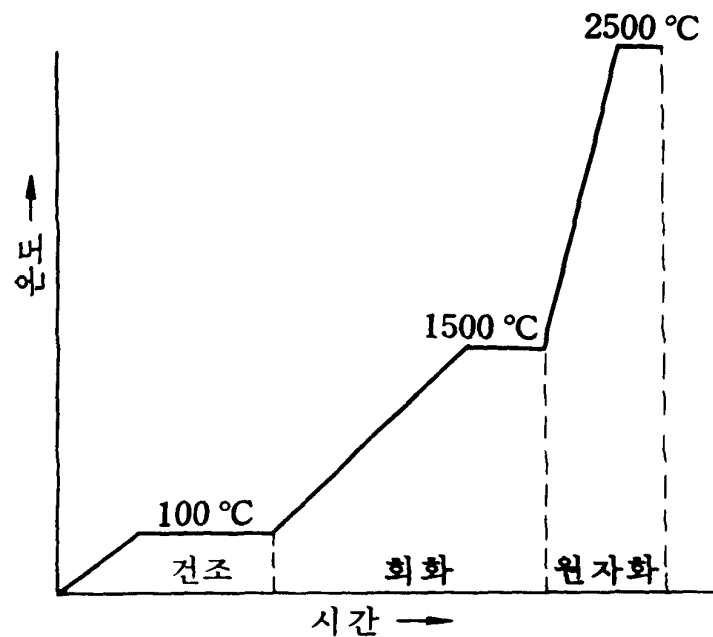
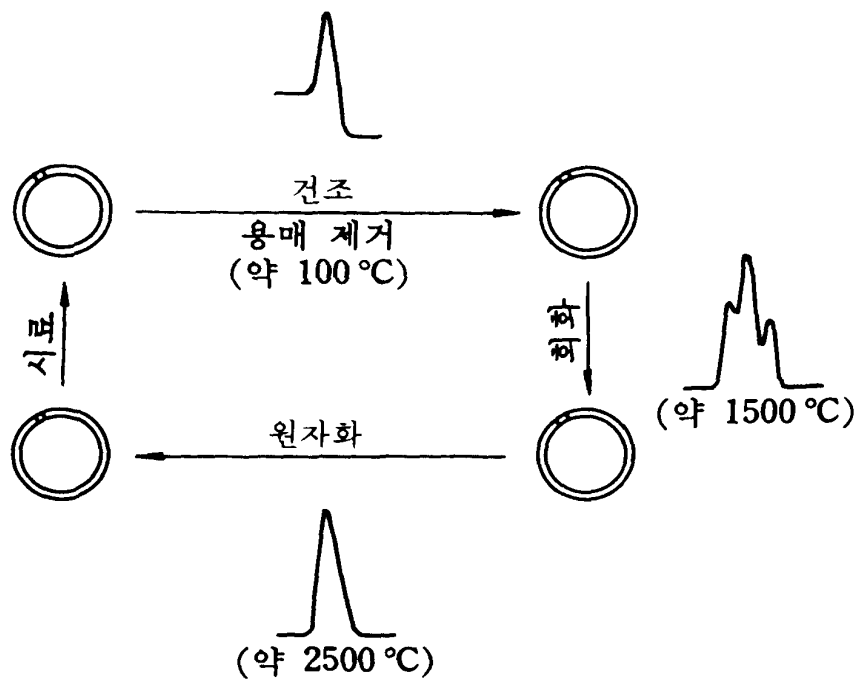
-  
) (Sn,As,Se ) - H<sub>2</sub>-air (2055 )

) (Al,Ti) - , C<sub>2</sub>H<sub>2</sub>-N<sub>2</sub>O (2955 )

) - C<sub>2</sub>H<sub>2</sub>-air (2300 )

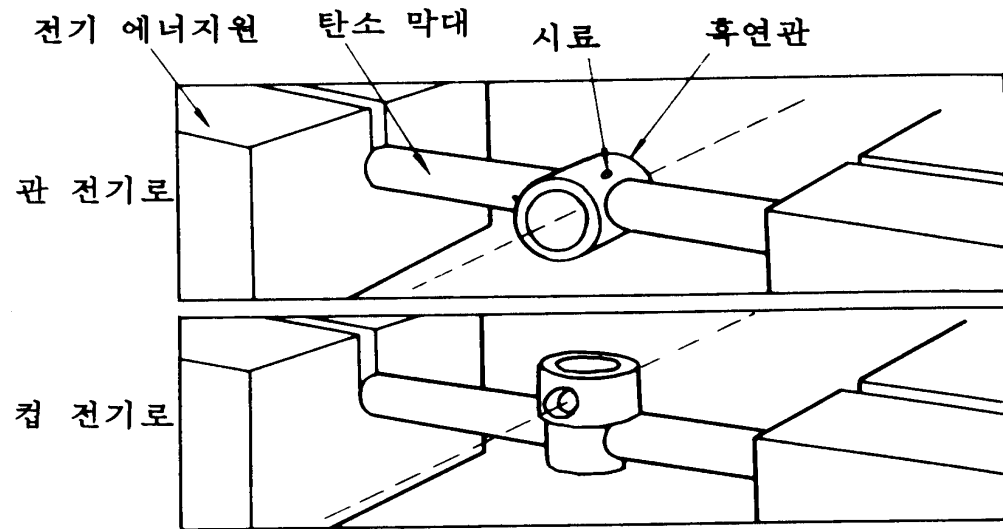
2)

(2-1) 가



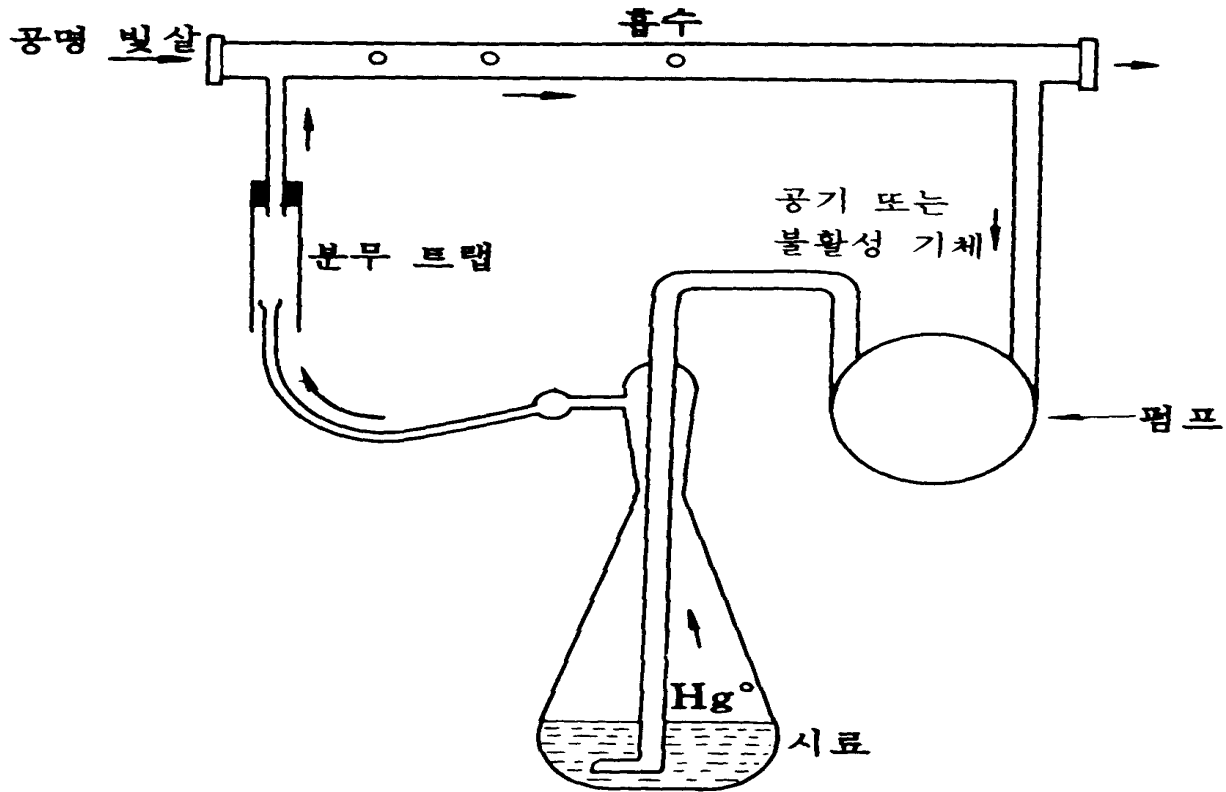
( )

- Ne, Ar



( )

(2-2) 가



( Hg 가 )



# • Cold vapor and hydride generation method

( 가 )

-

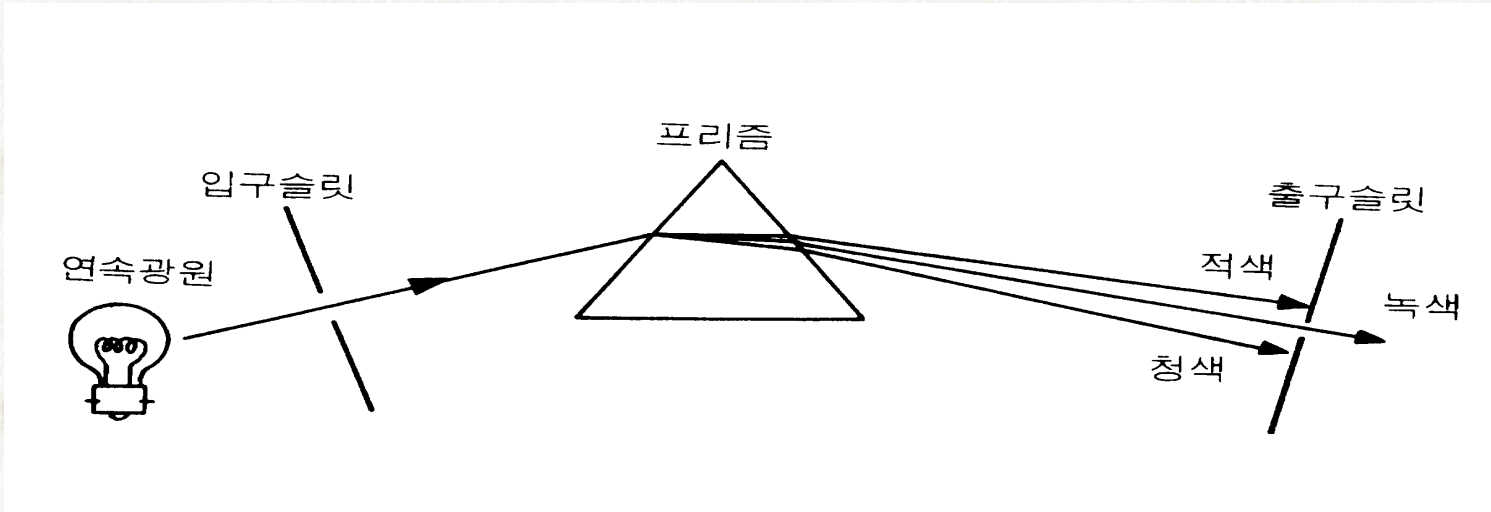
(Hg)

(P,S)

가 (10<sup>-10</sup>- 10<sup>-12</sup>g)

4.

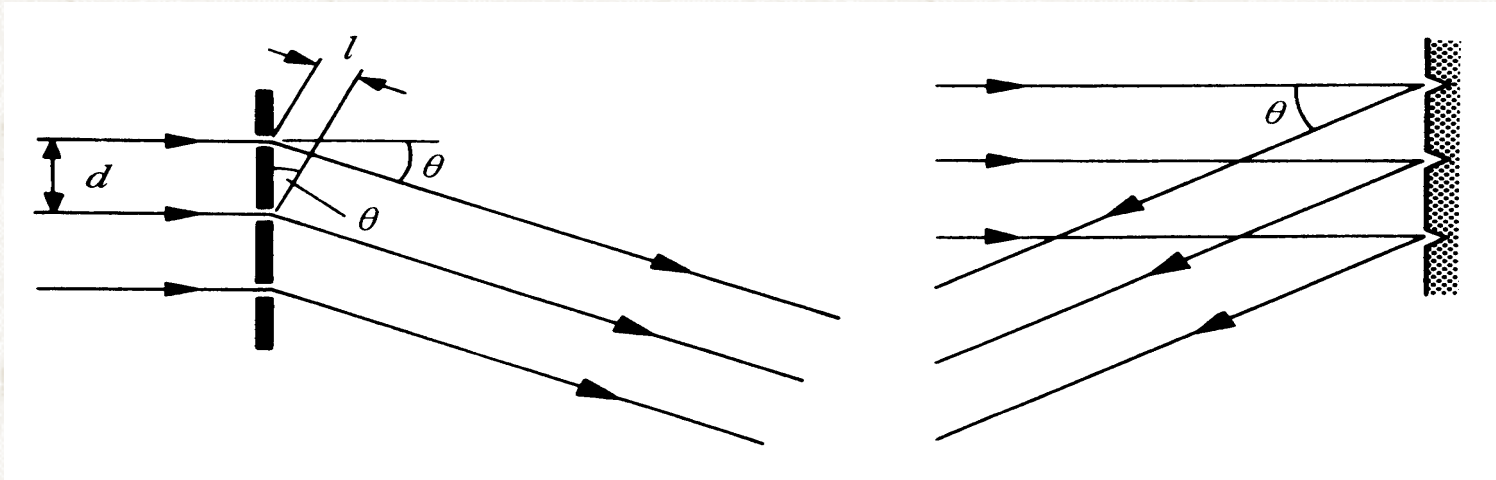
1)



( )

2)

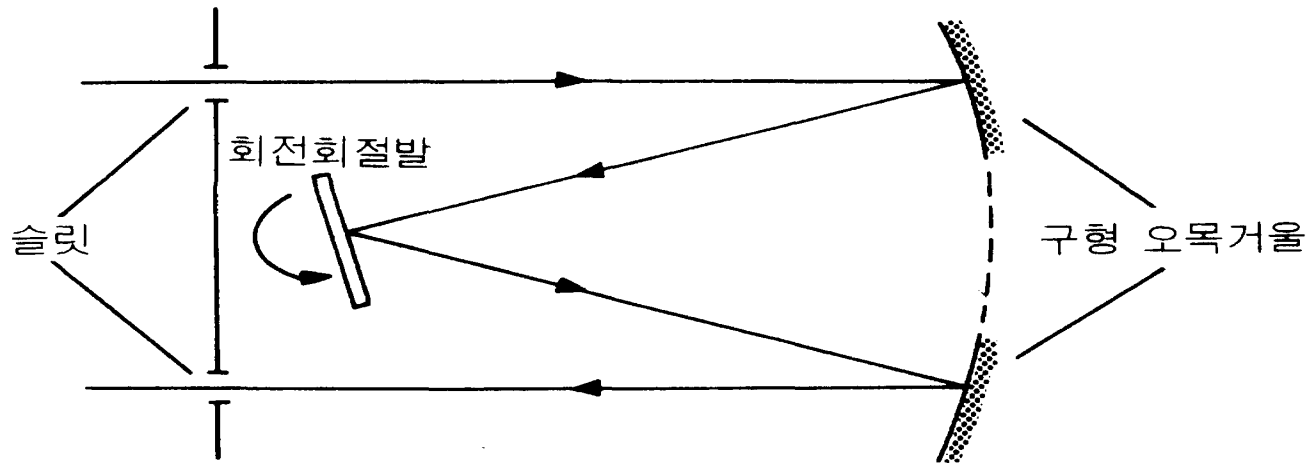
가



( )

( )

3)

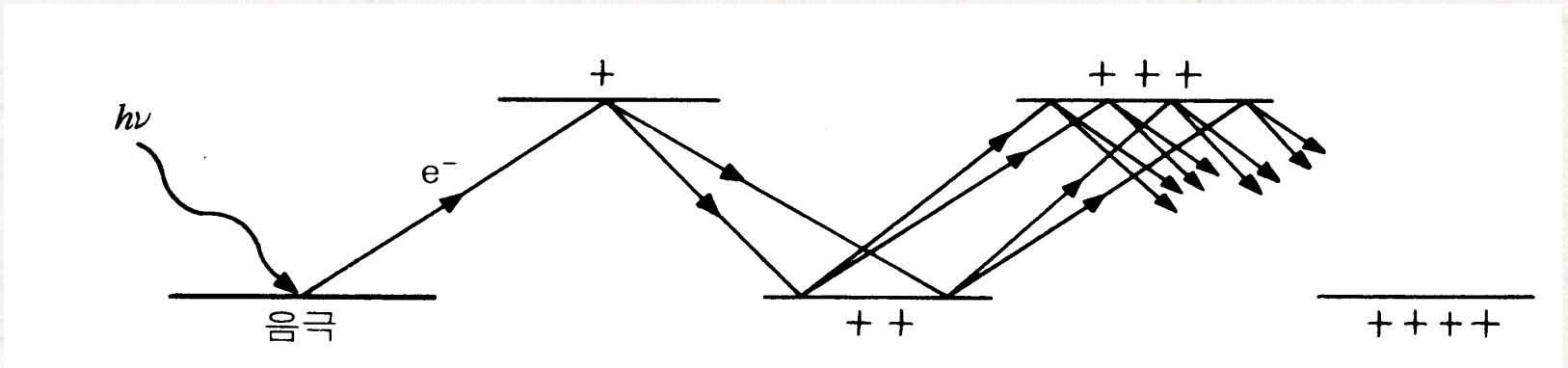


( Czerny-Turner )

5.

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가 가



( )

6.

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7.



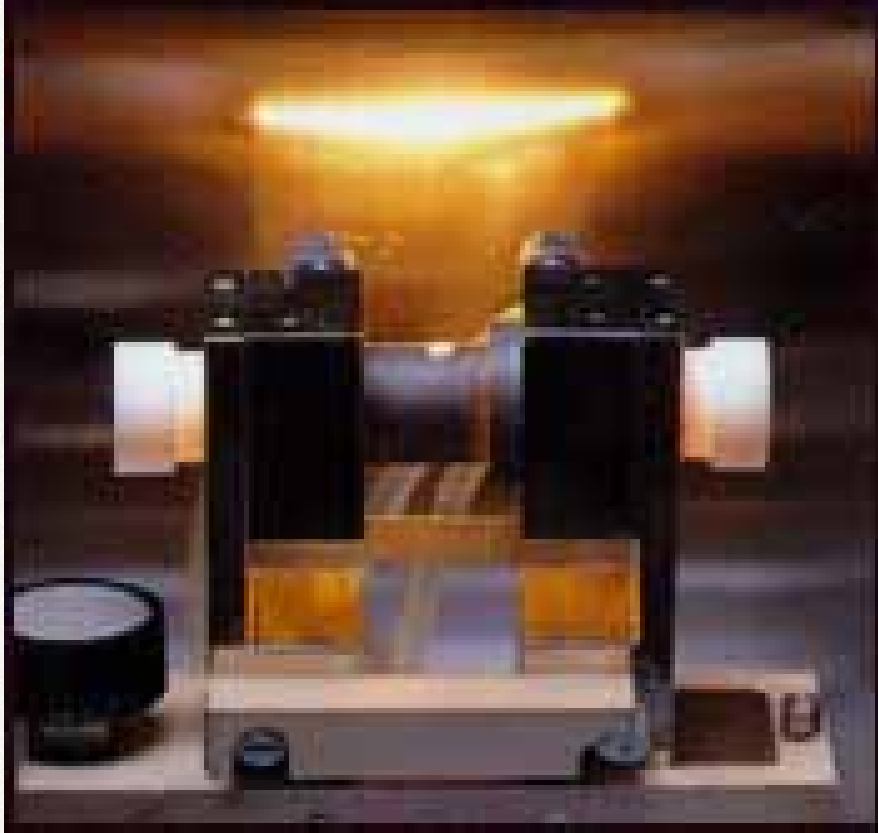
Shimadzu Corporation( )

Model AA-680

GFA-4B(Graphite Furnace Atomizer)

HVG-1(Hydride Vapor Generator)

(As, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Na, Ni, Pb, Sb, Pb, Zn )



**Graphite Furnance  
Atomizer**



**Hydride Generator  
Atomizer**