

FIG. 1

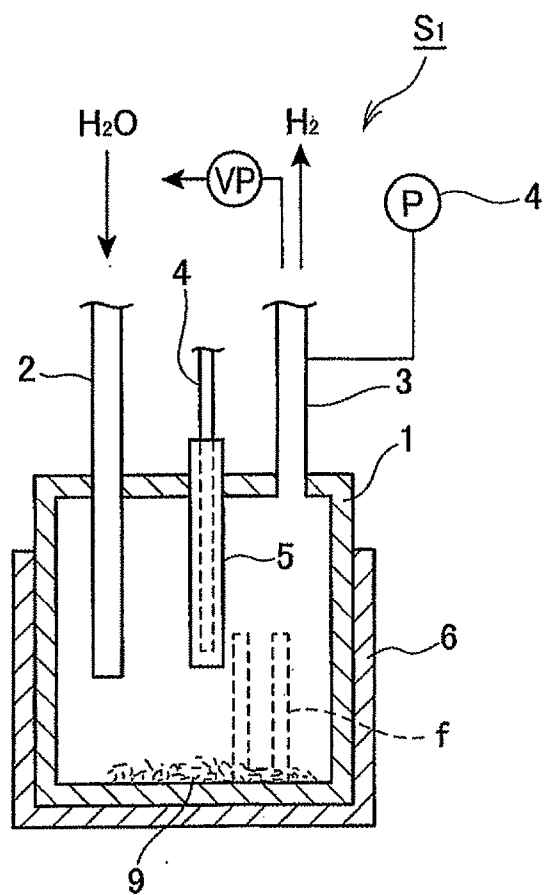
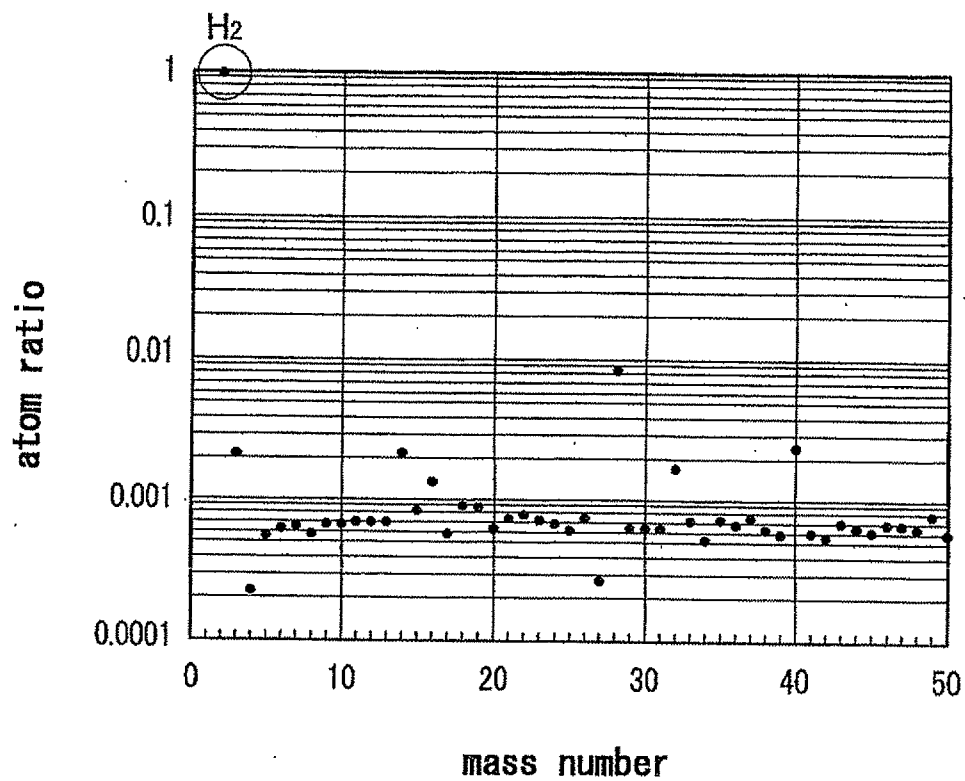


FIG.2



detected elements

H_2^+ , 2 ; 95.4%, N^+ , 14 ; 0.218%, N_2^+ , 28 ; 0.85%,
 O_2^+ , 32 ; 0.175%, O^+ , 16 ; 0.14%, Ar^+ , 40 ; 0.24%

FIG.3

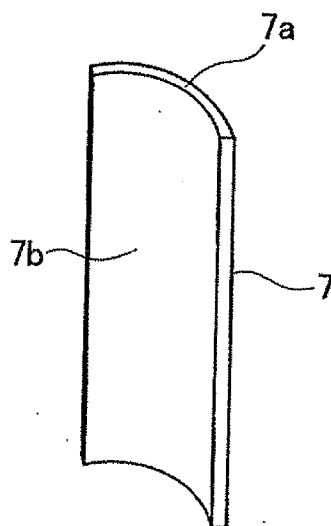


FIG. 4

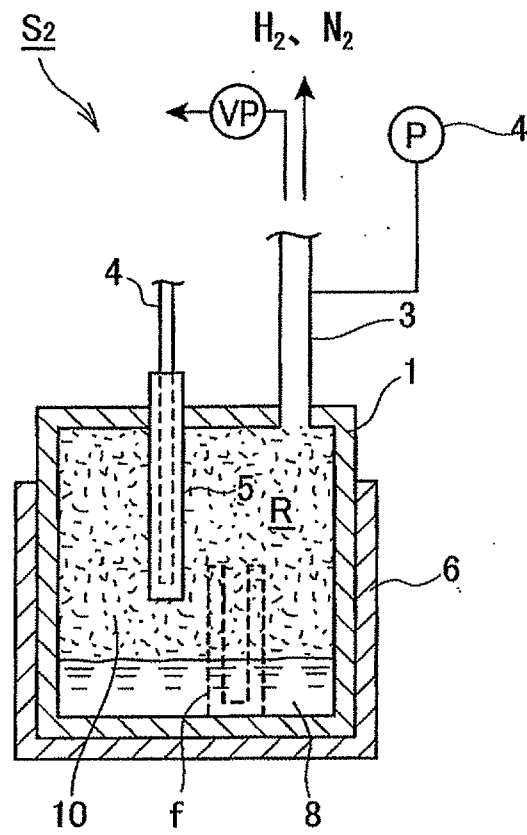
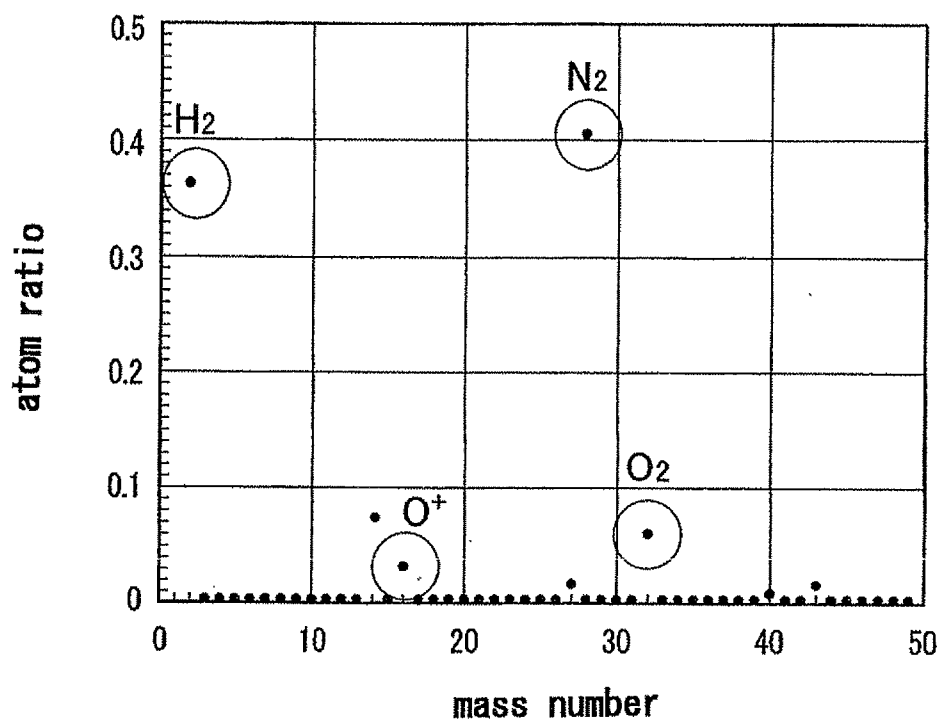


FIG.5



N_2^+ , 28; 40.3%, H_2^+ , 2; 36.1%, N^+ , 14; 7.3%,
 O_2^+ , 32; 5.8%, O^+ , 16; 3.28%, $C_2H_3^+$, 27; 1.65%,
 $C_3H_7^+$, 43; 1.51%

FIG.6

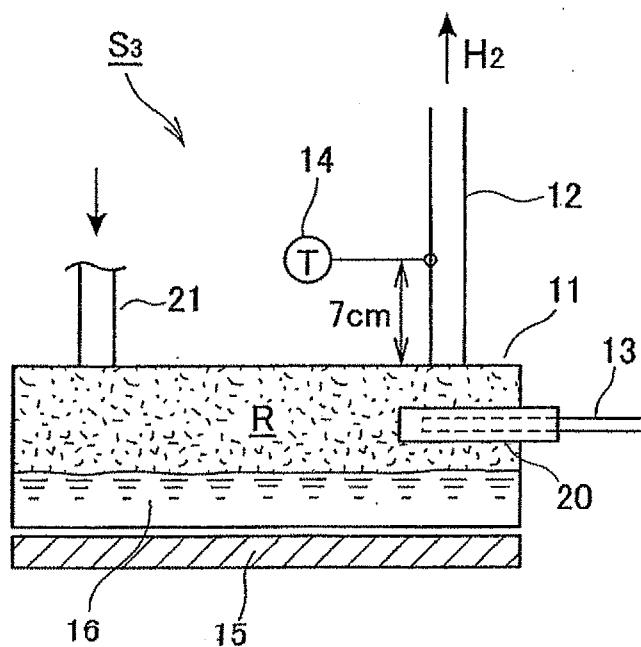


FIG. 8

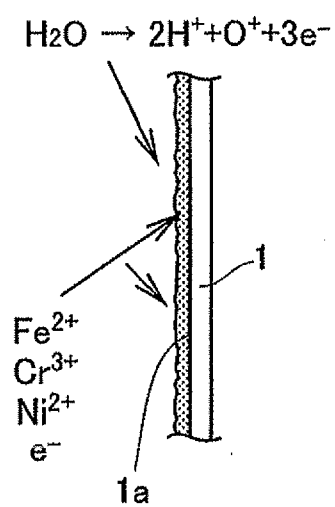


FIG. 9

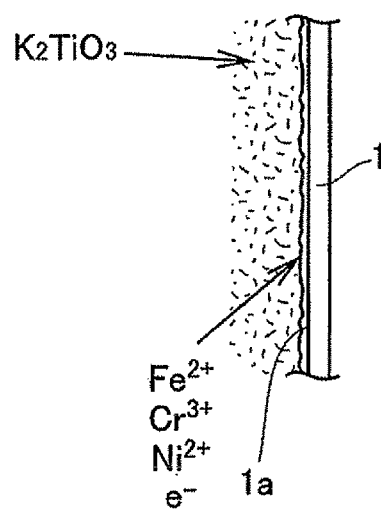


FIG. 11

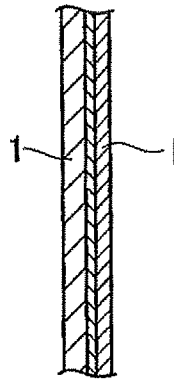


FIG. 12

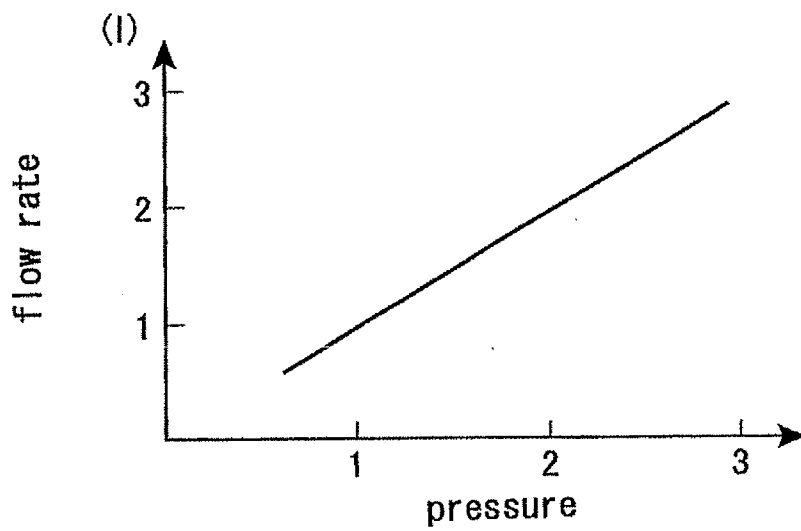
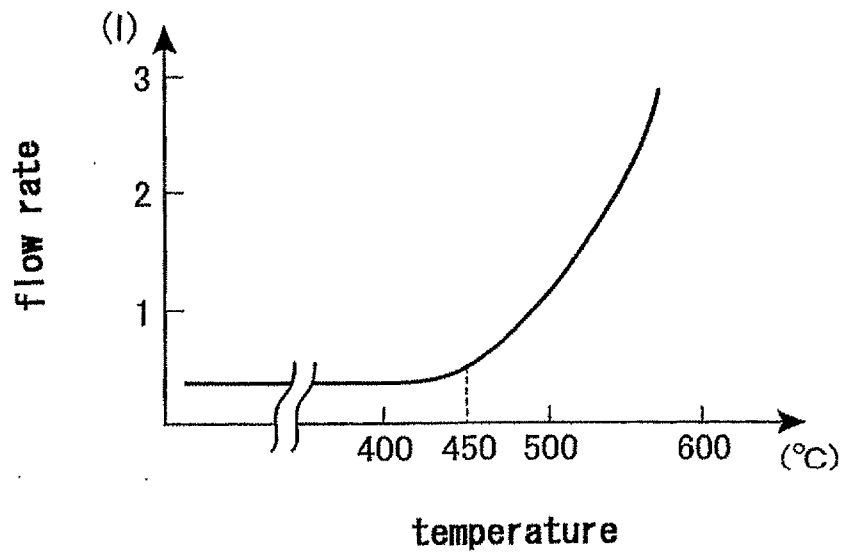


FIG. 13



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FIG.14

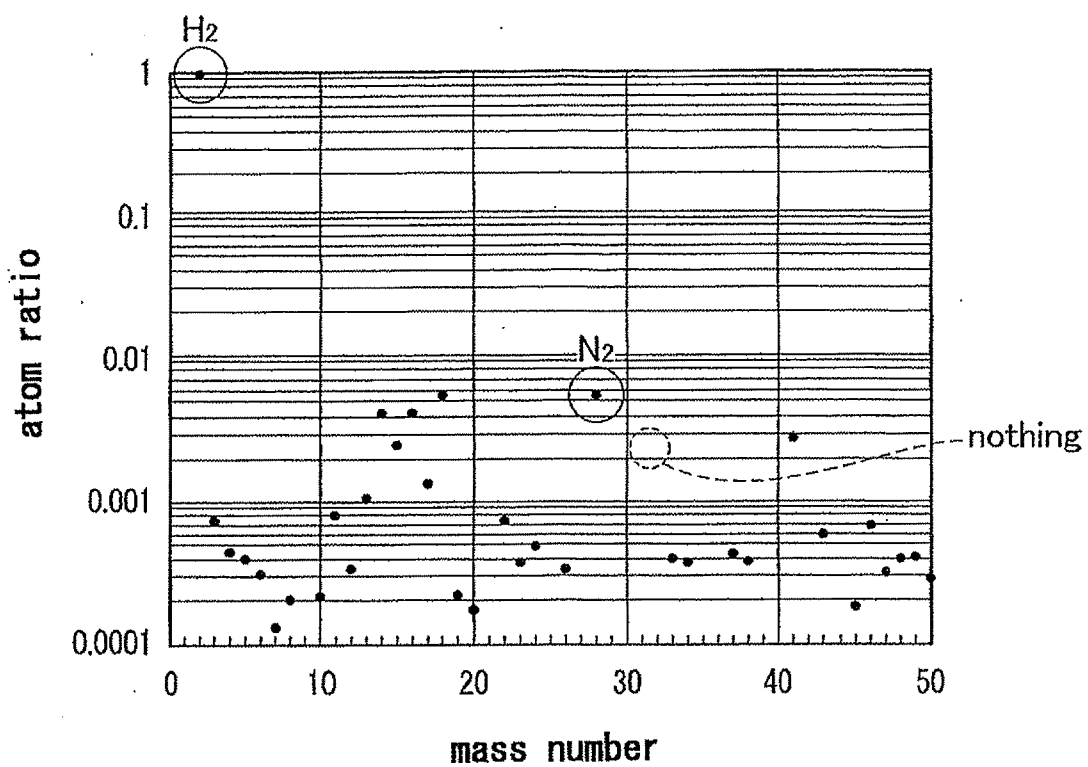


FIG.15

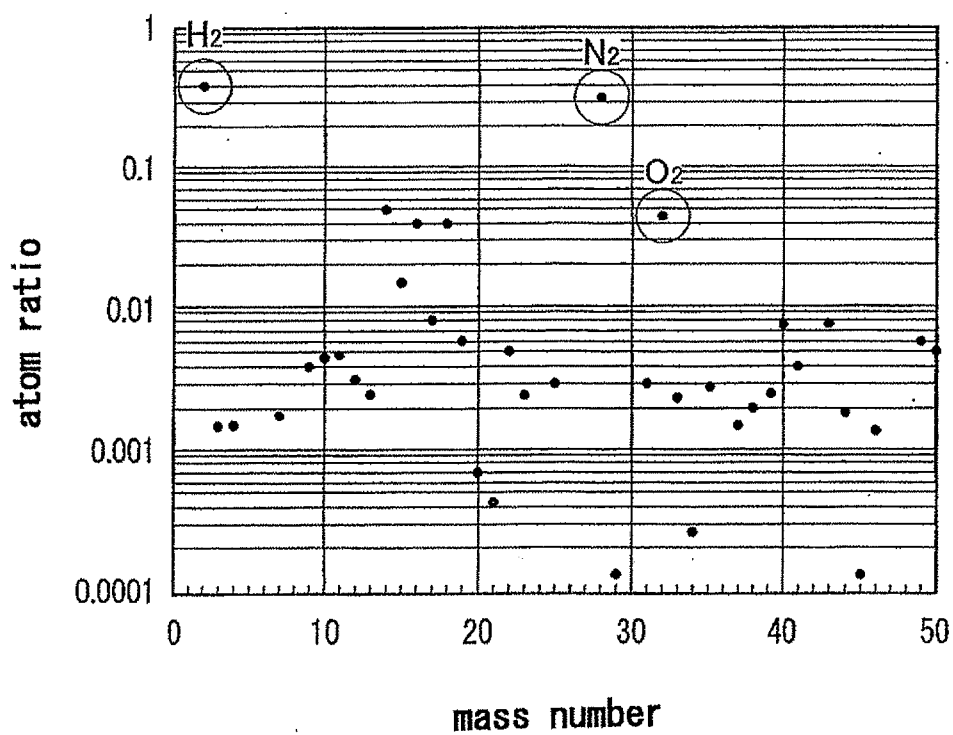


FIG. 16

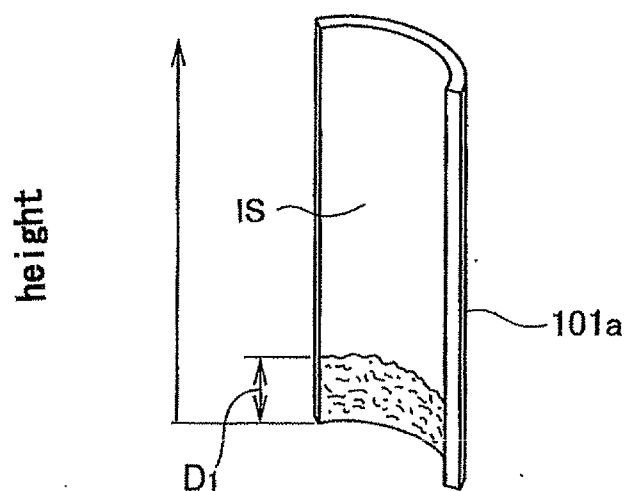


FIG. 17

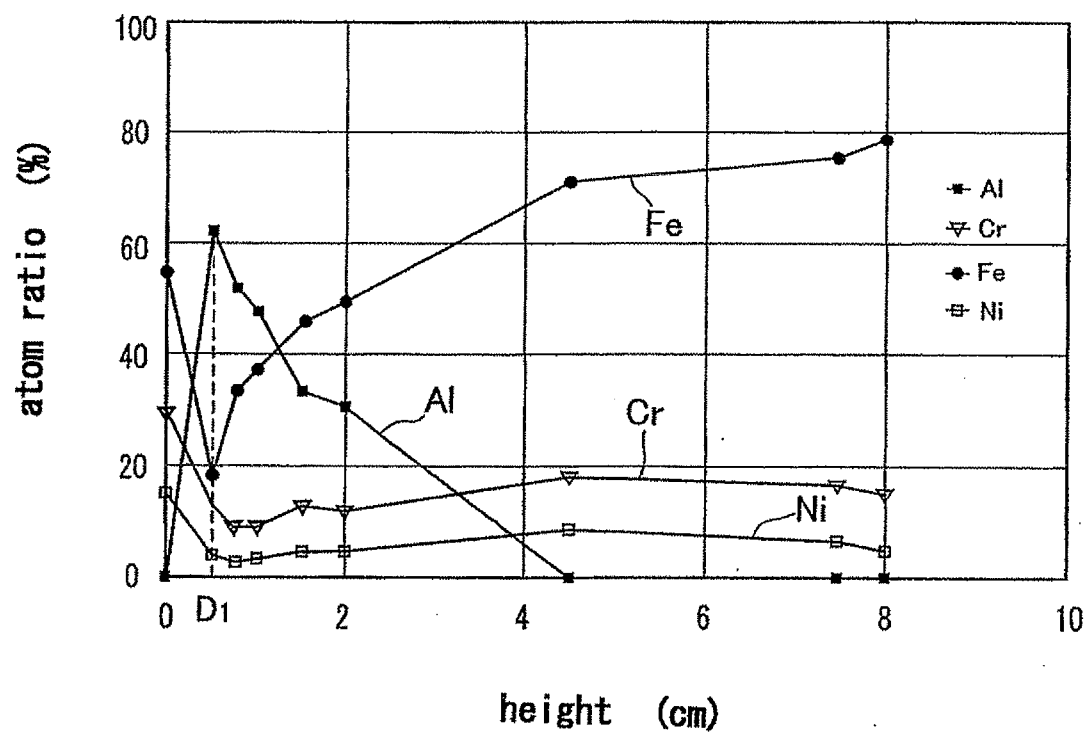


FIG.18

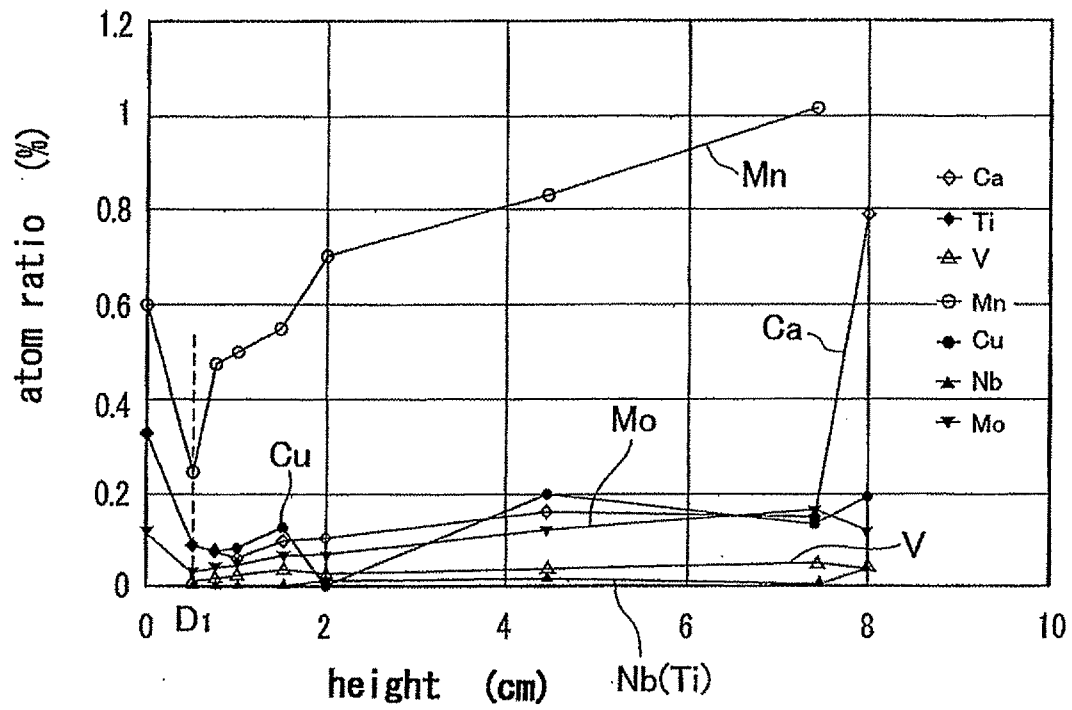


FIG.19

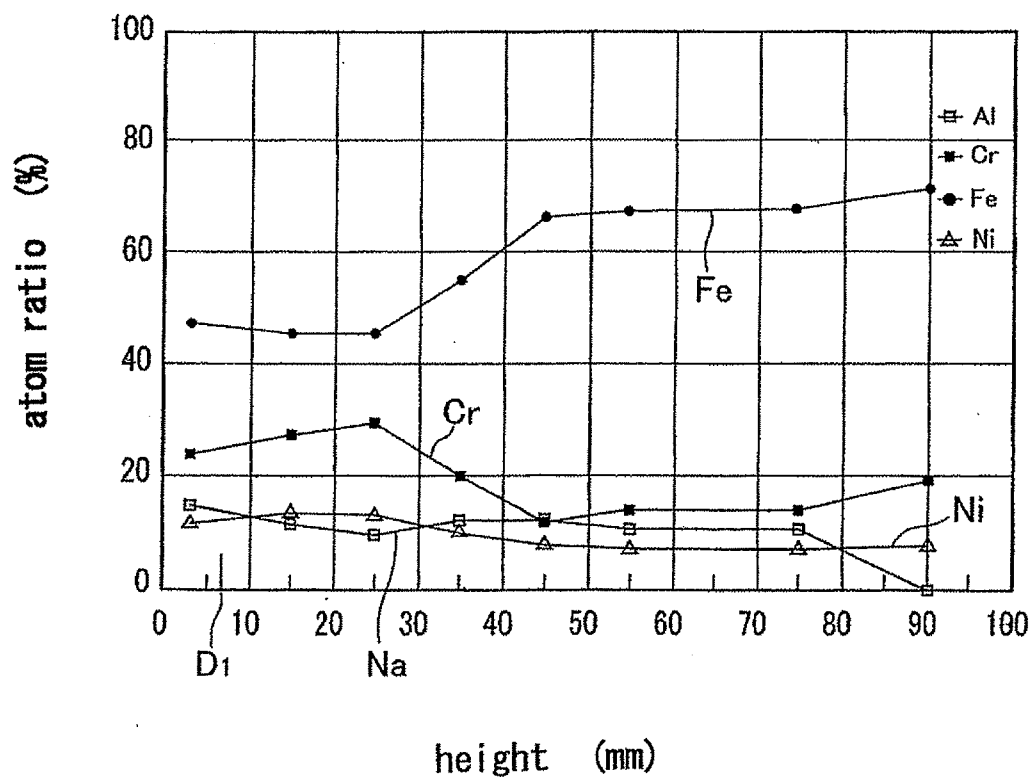


FIG.20

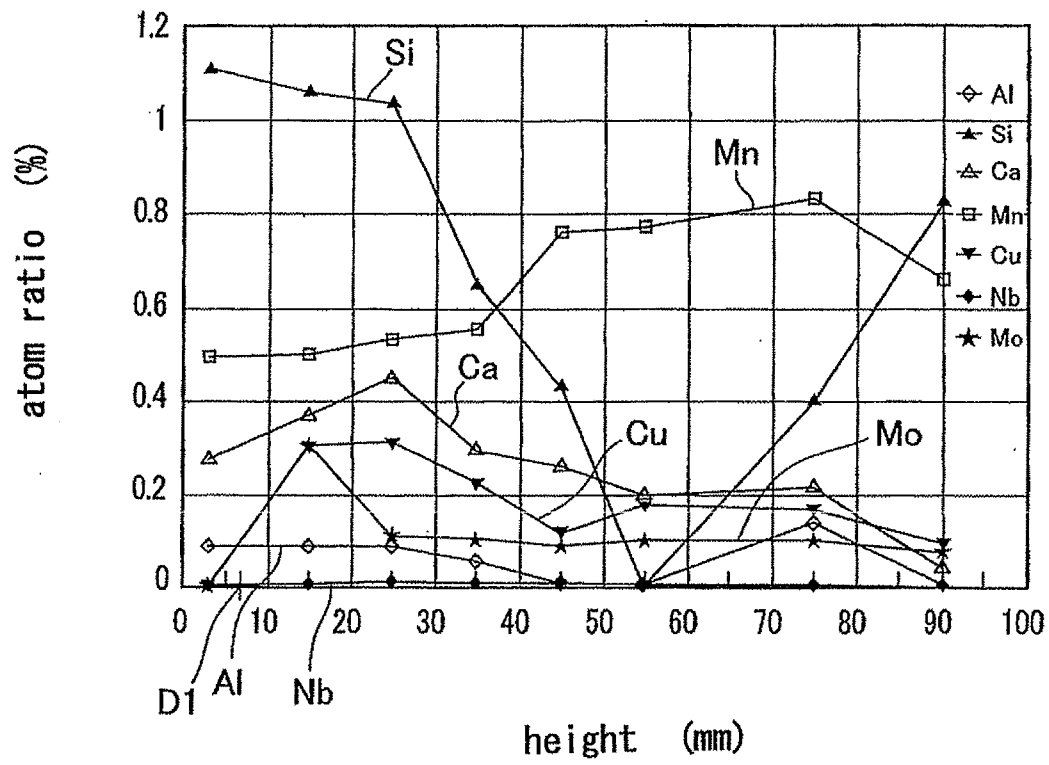


FIG.21

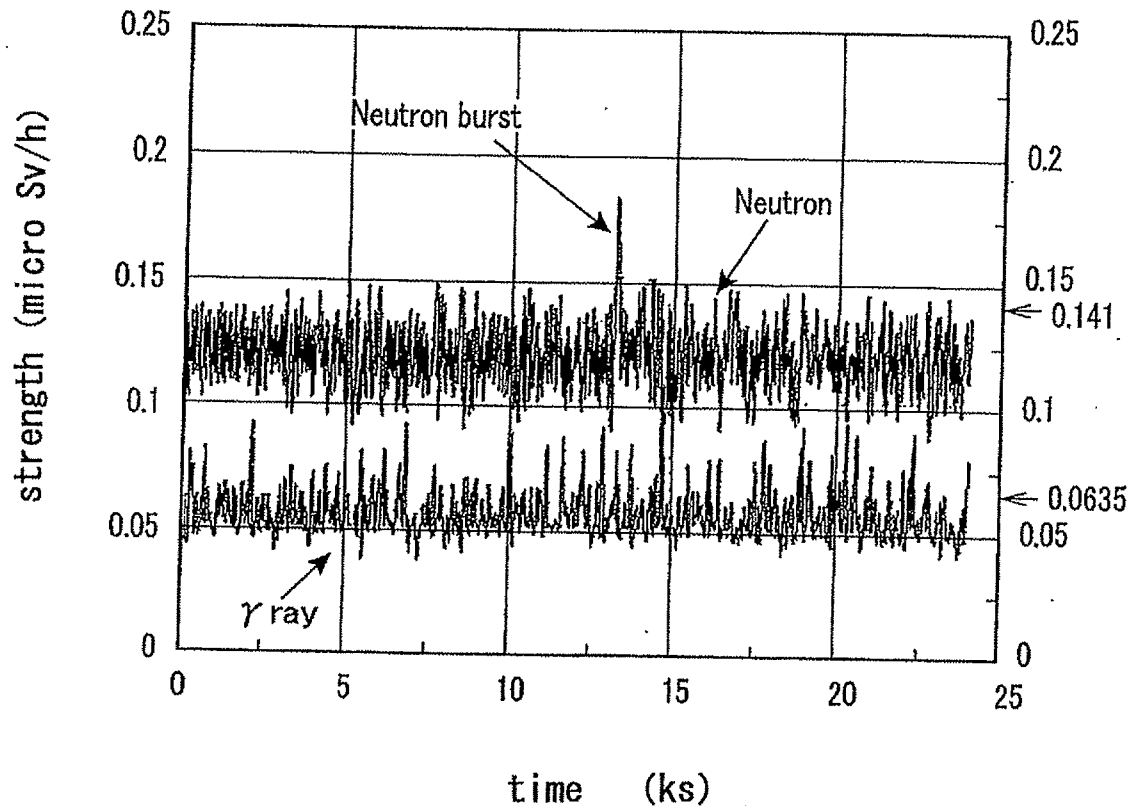


FIG. 22

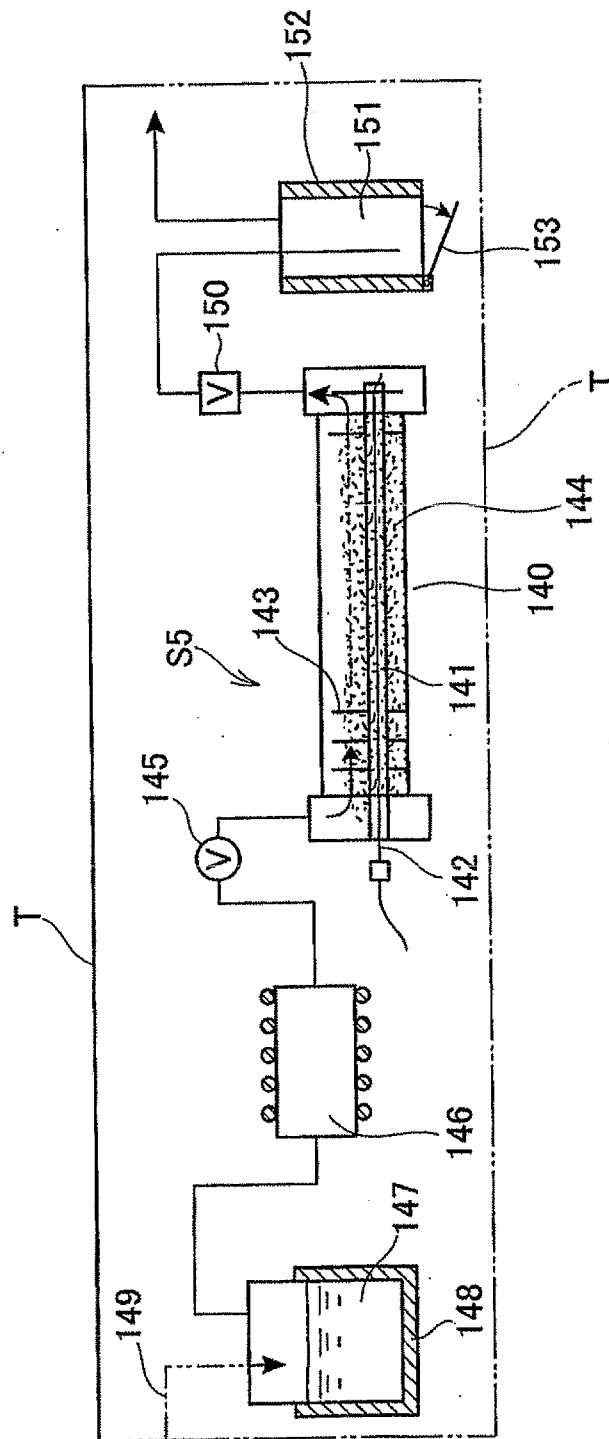


FIG.23

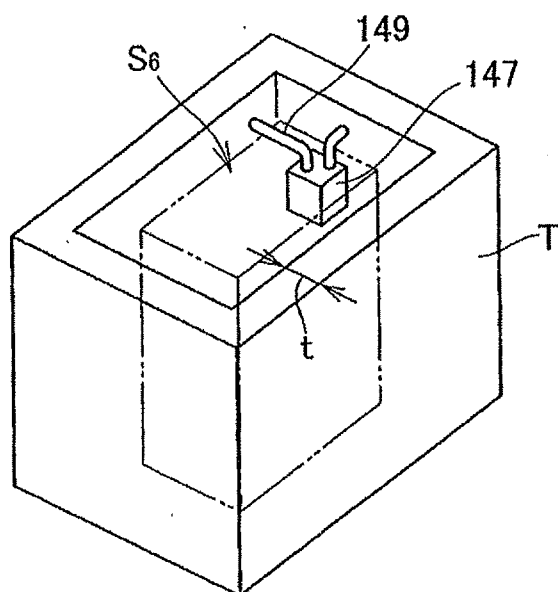
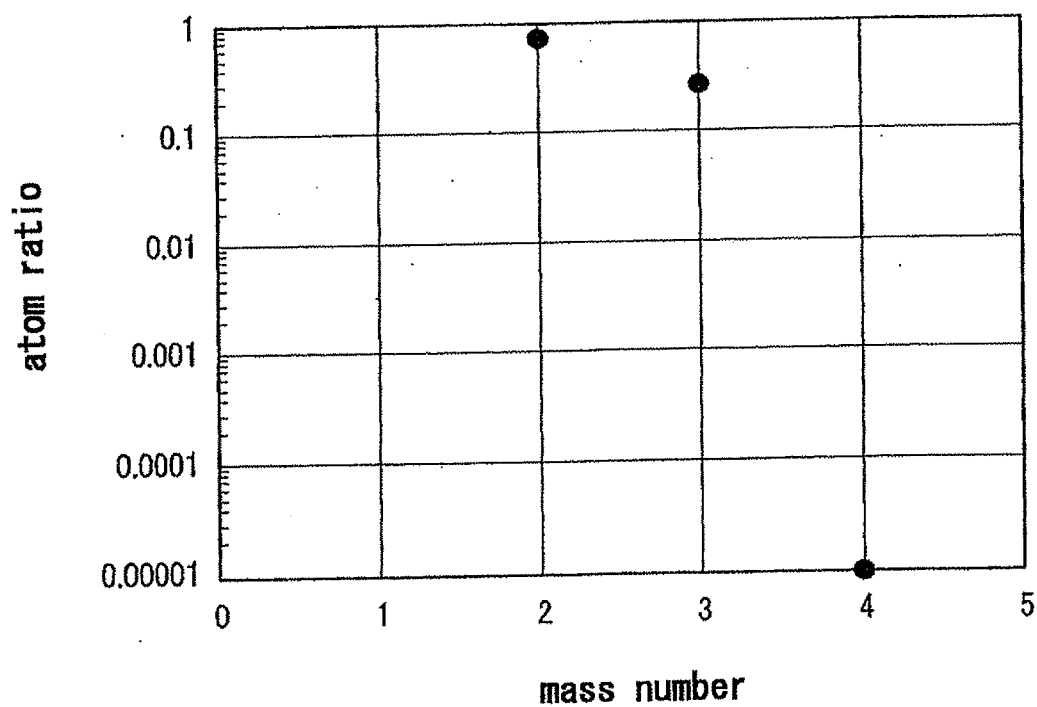


FIG.24



Atom ratios of detected gas and normal hydrogen gas
 detected gas, 2 : 0.7299, 3 : 0.27, 4 : 0.00001
 normal hydrogen gas, 2 : 0.9998, 3 : 0.00015, 4 : 0.00005

FIG. 25

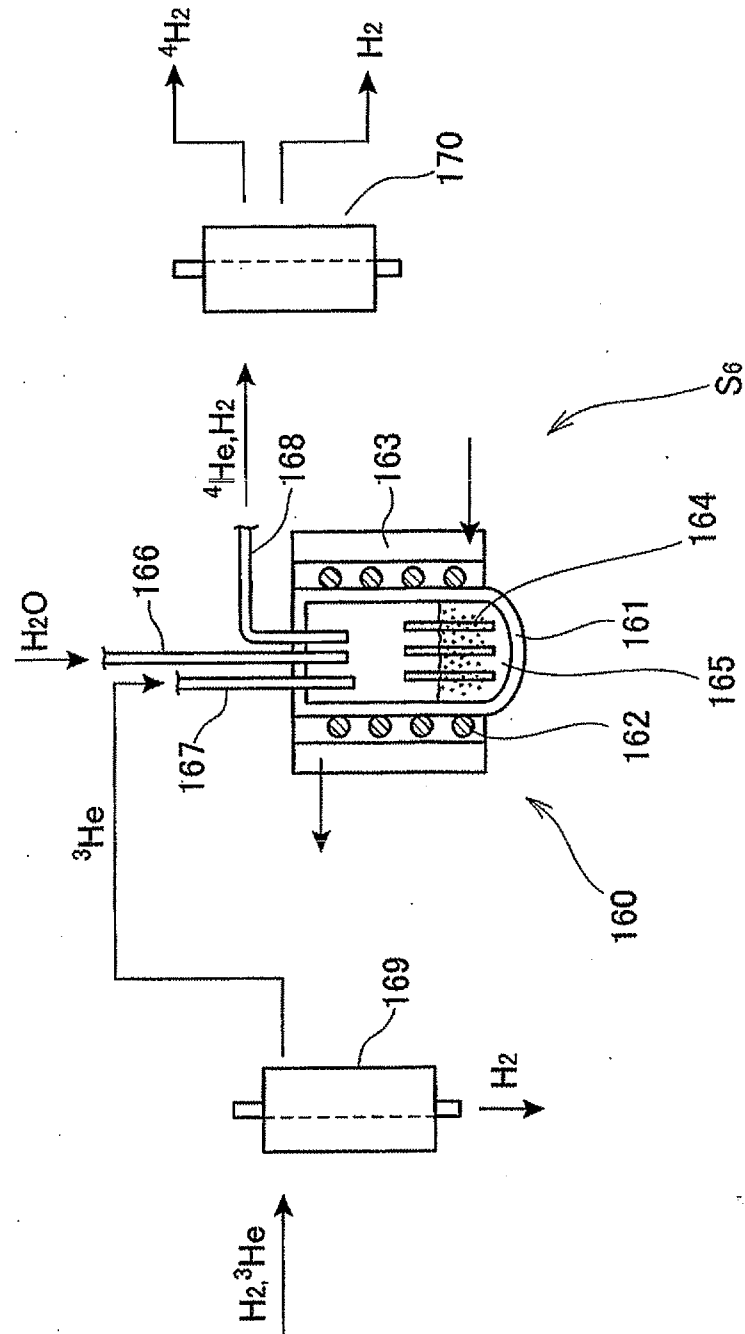


FIG. 26

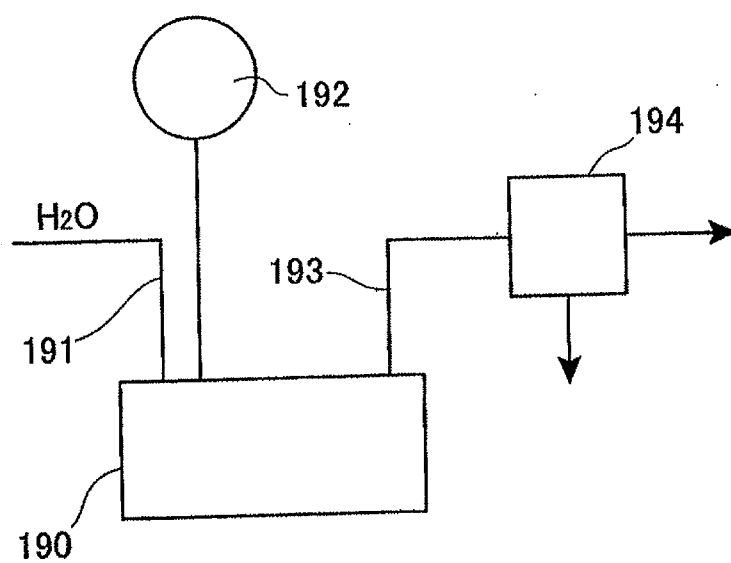


FIG. 27

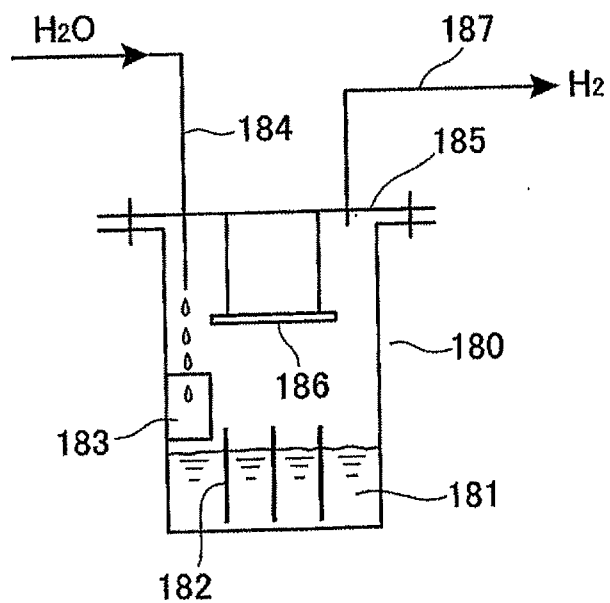


FIG. 28

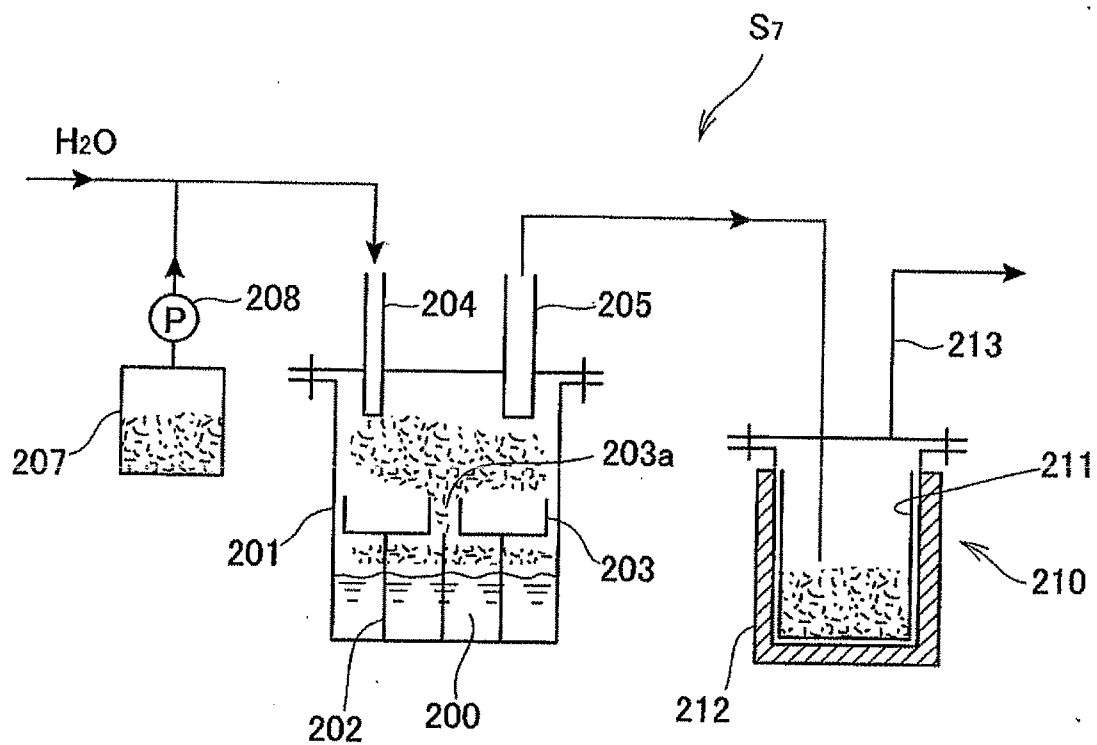


FIG. 29

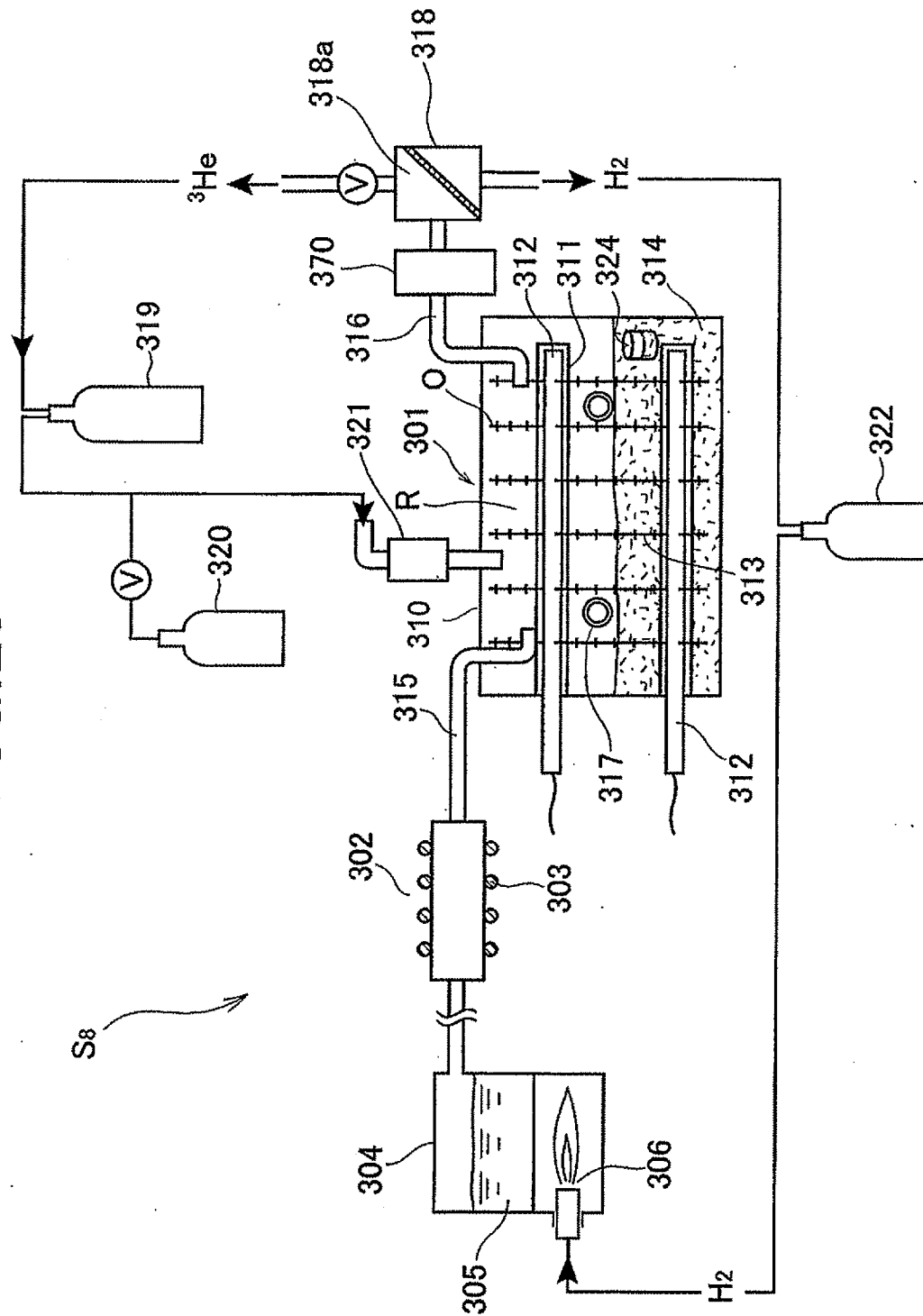


FIG. 31

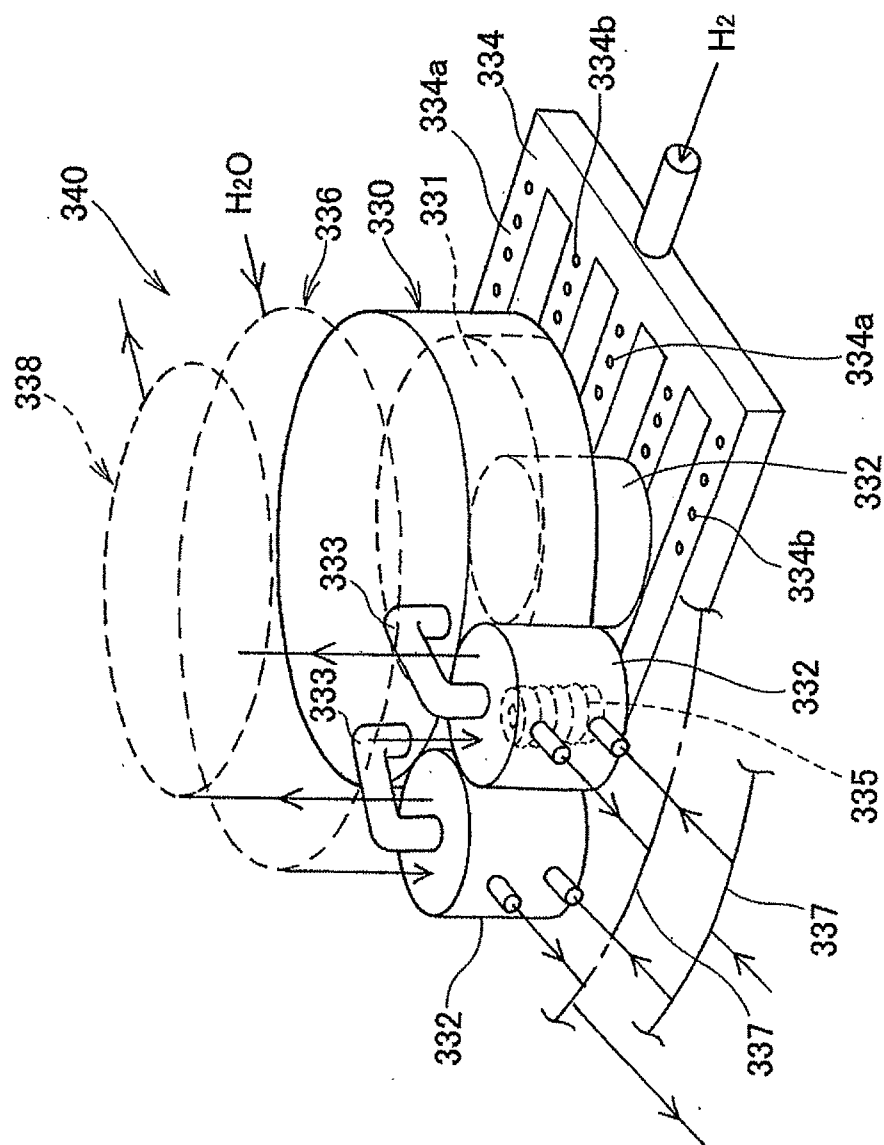


FIG. 32

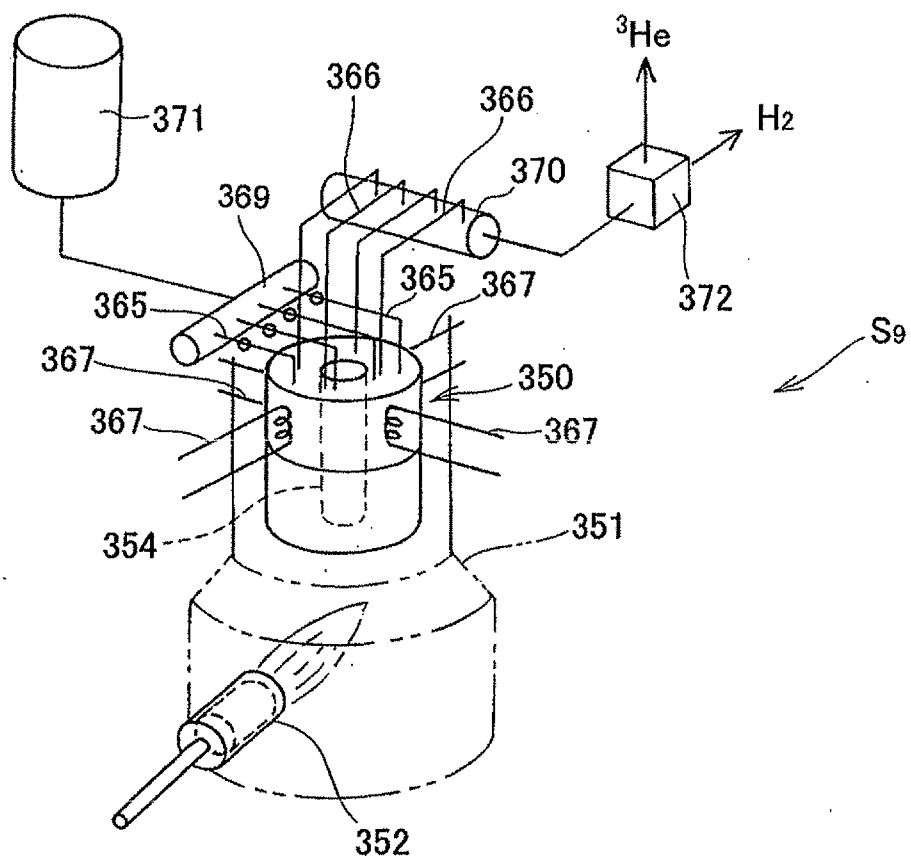


FIG. 33

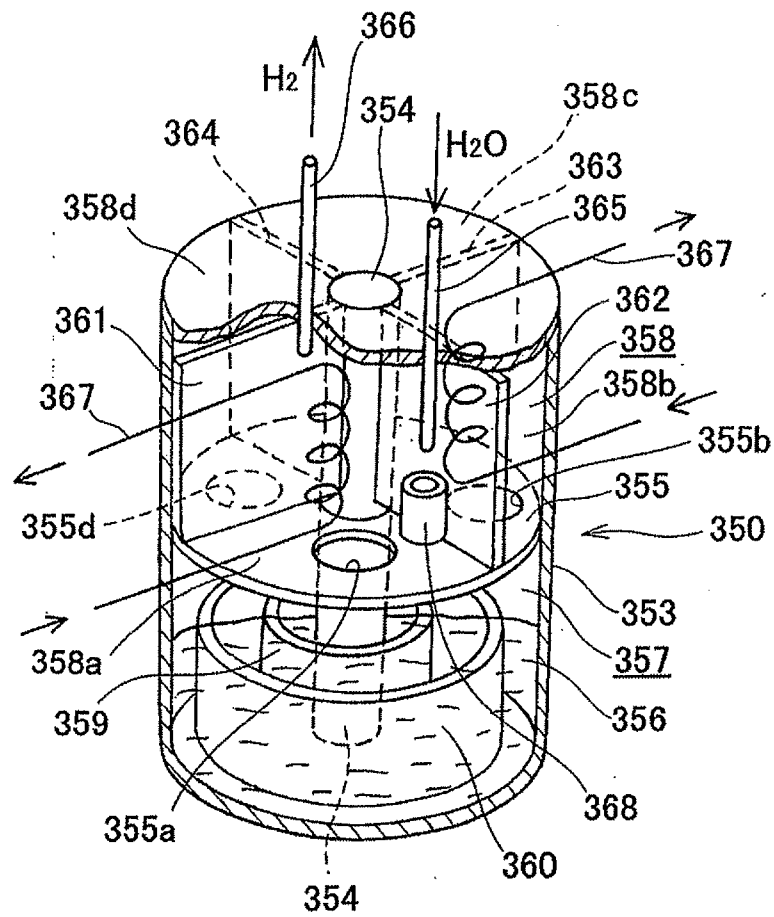


FIG. 34

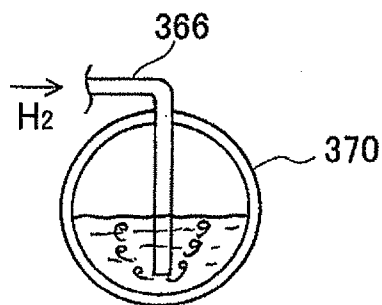


FIG. 35

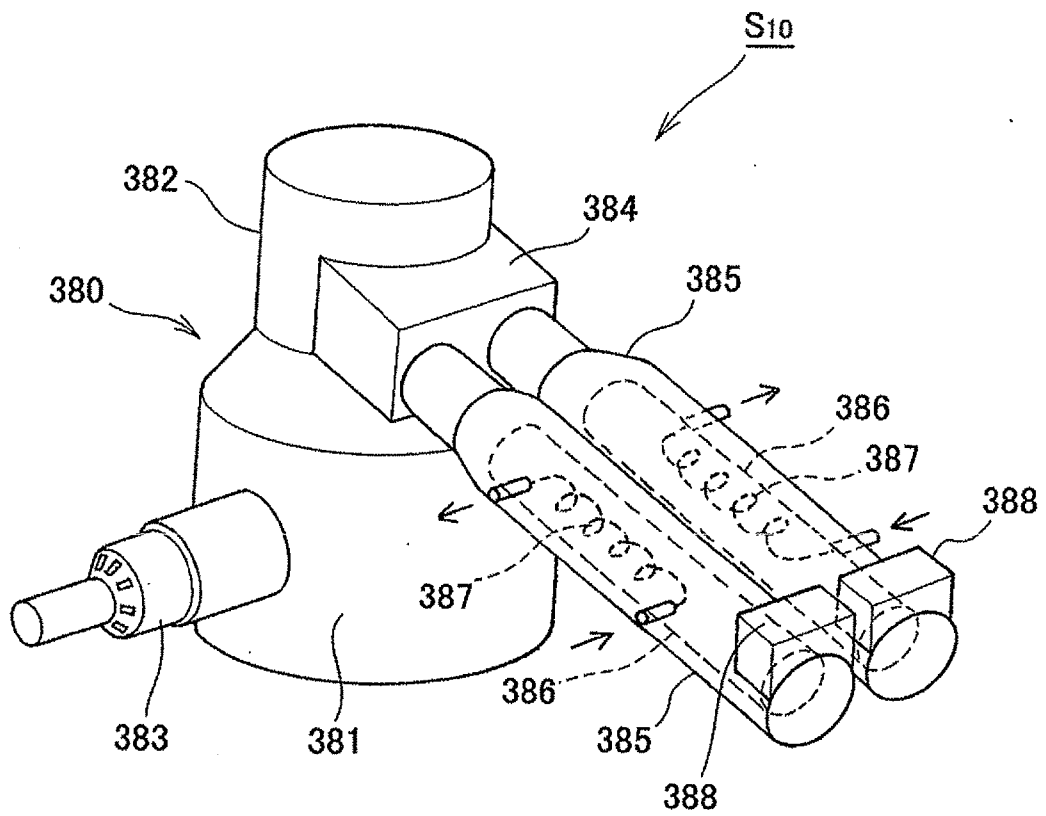


FIG. 36

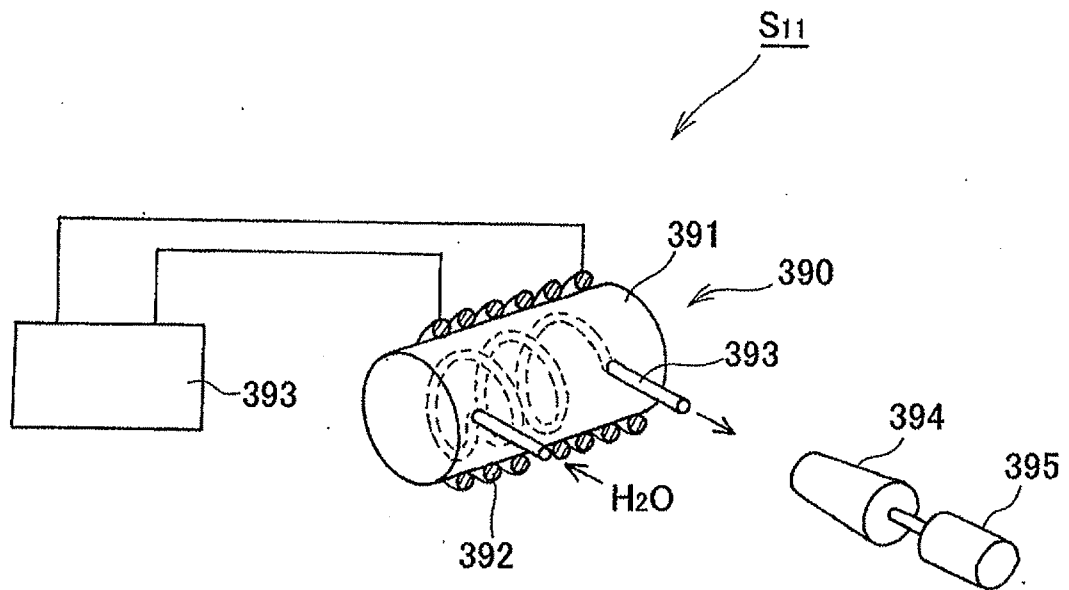


FIG. 37

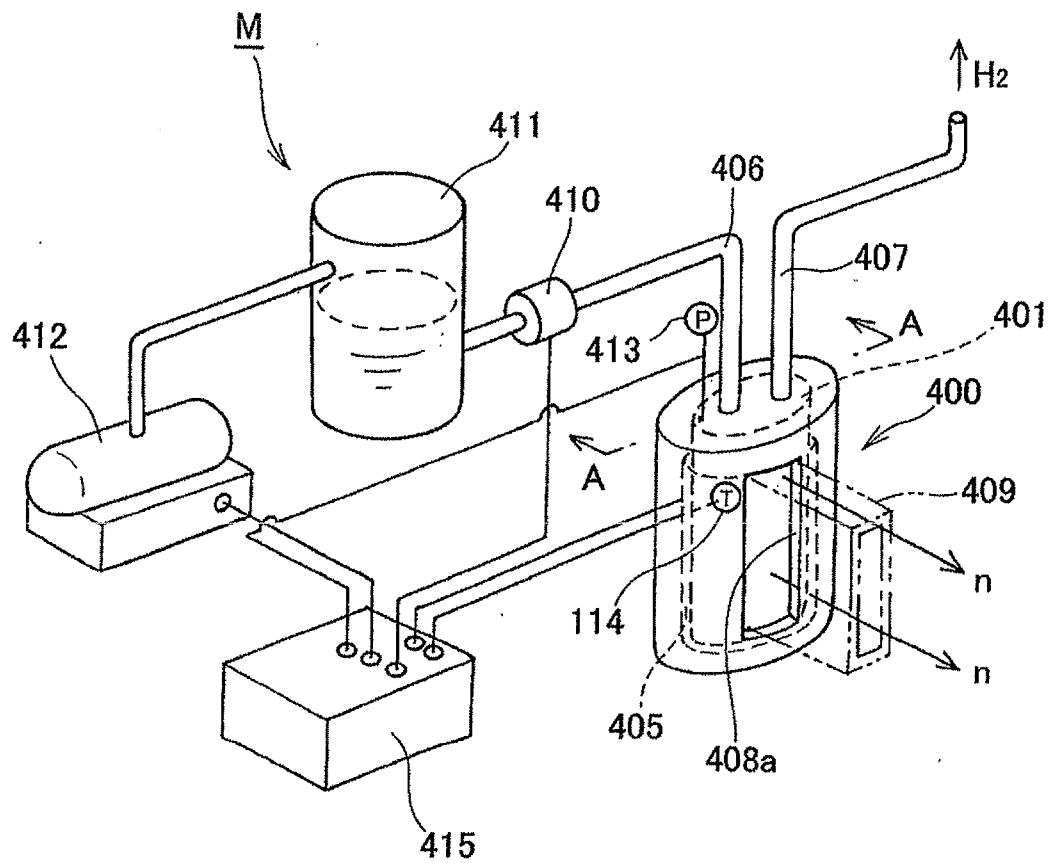


FIG. 38

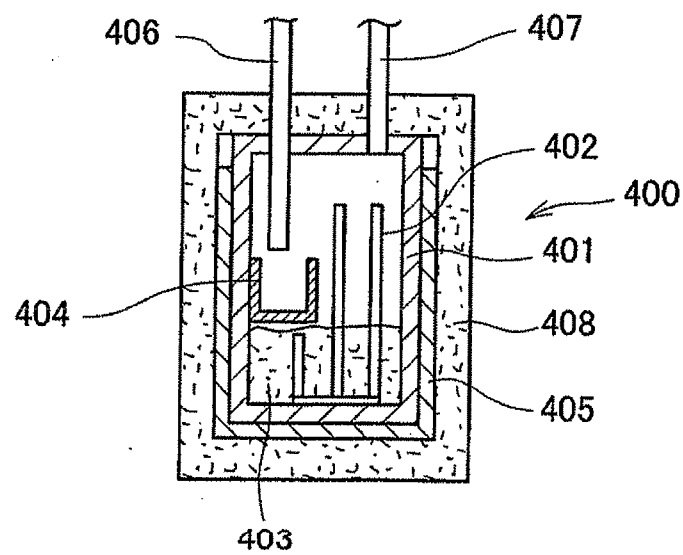


FIG. 39

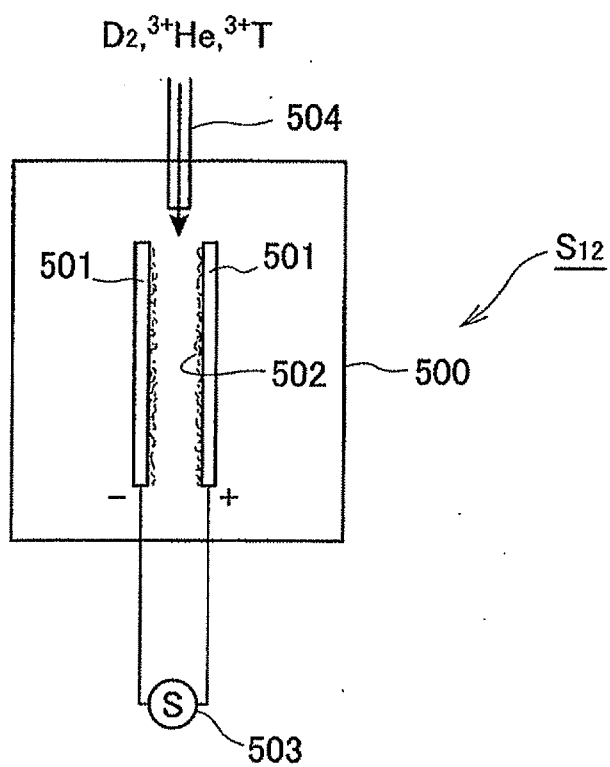


FIG. 40

