

FIG.1

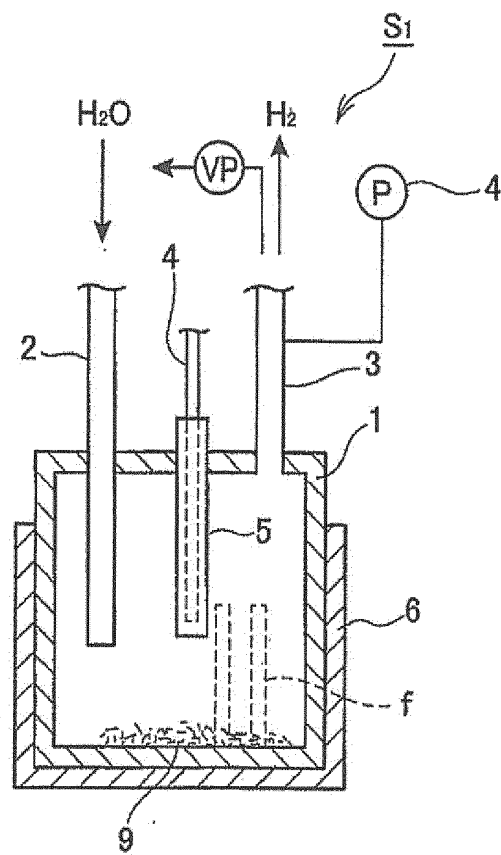
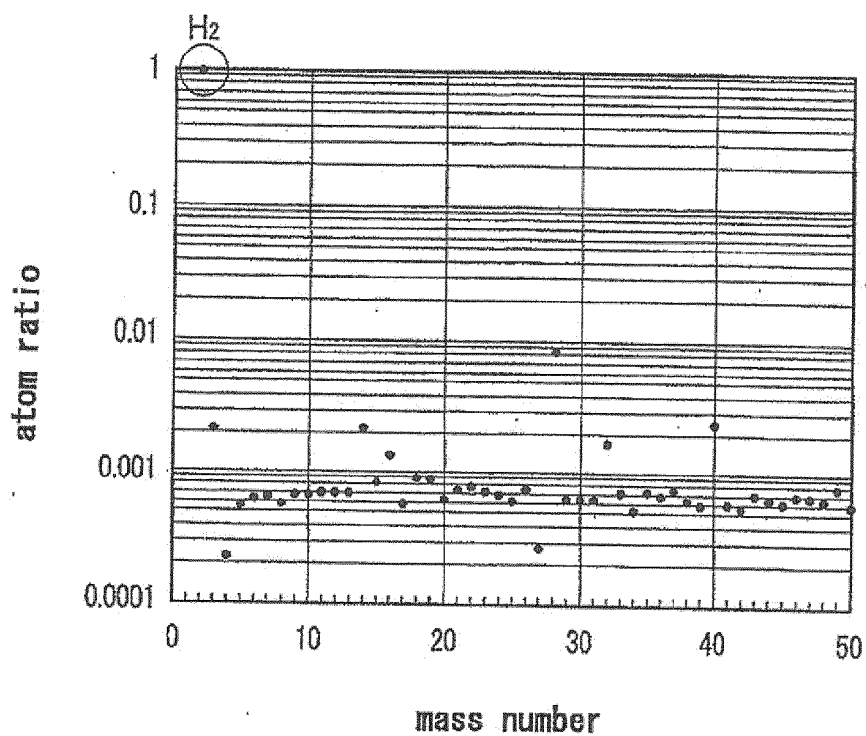


FIG.2



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

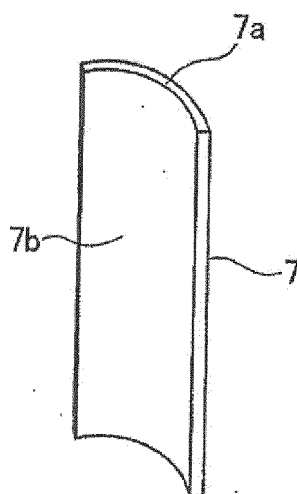


FIG.4

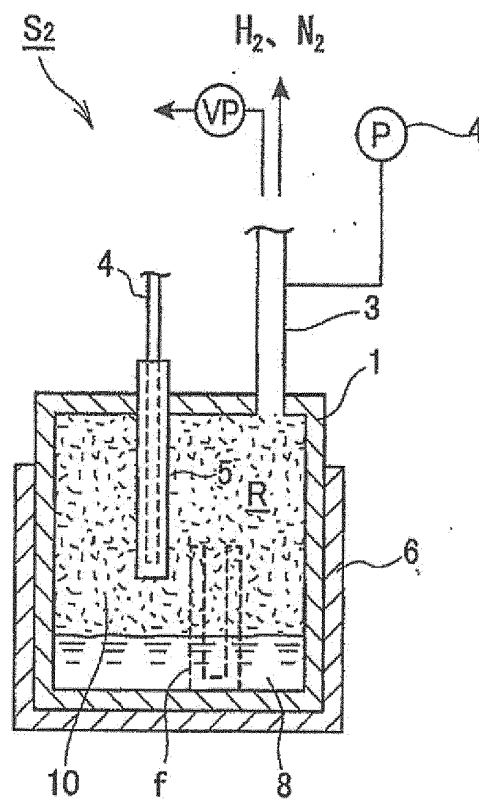
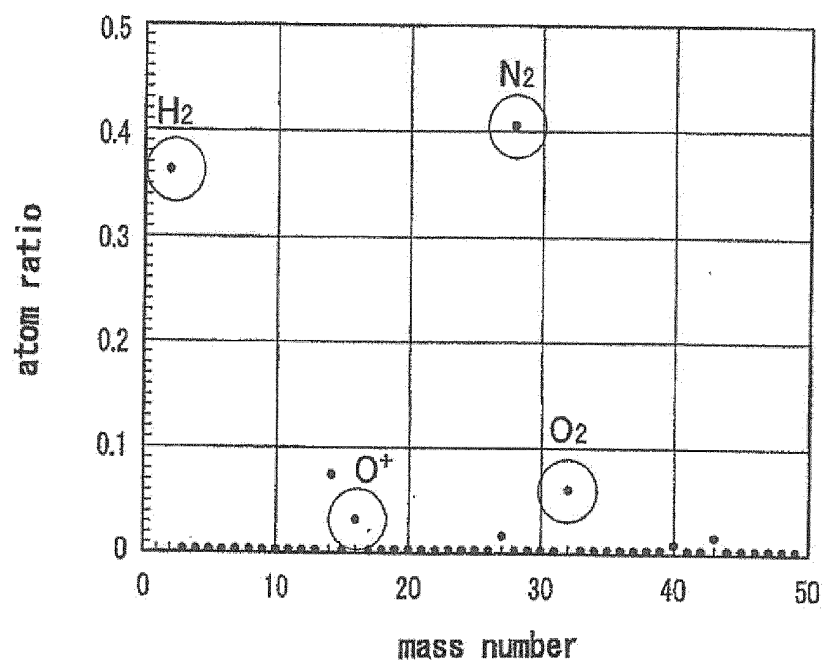


FIG.5



N₂⁺, 28; 40.3%, H₂⁺, 2; 36.1%, N⁺, 14; 7.3%,
 O₂⁺, 32; 5.8%, O⁺, 16; 3.28%, C₂H₃⁺, 27; 1.65%,
 C₃H₇⁺, 43; 1.51%

FIG.6

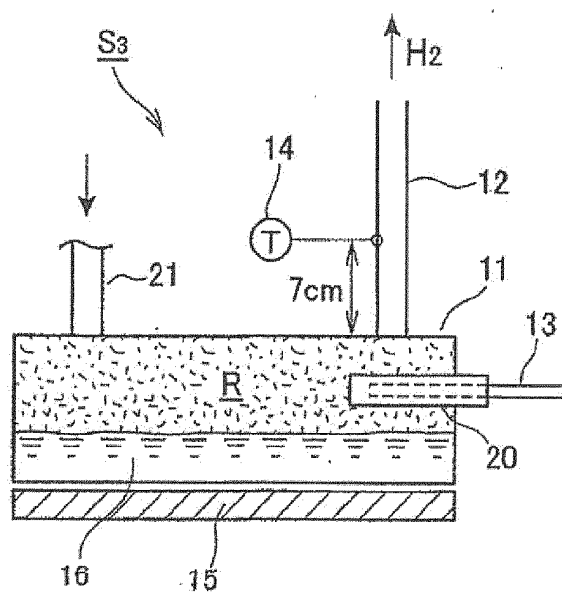


FIG. 7

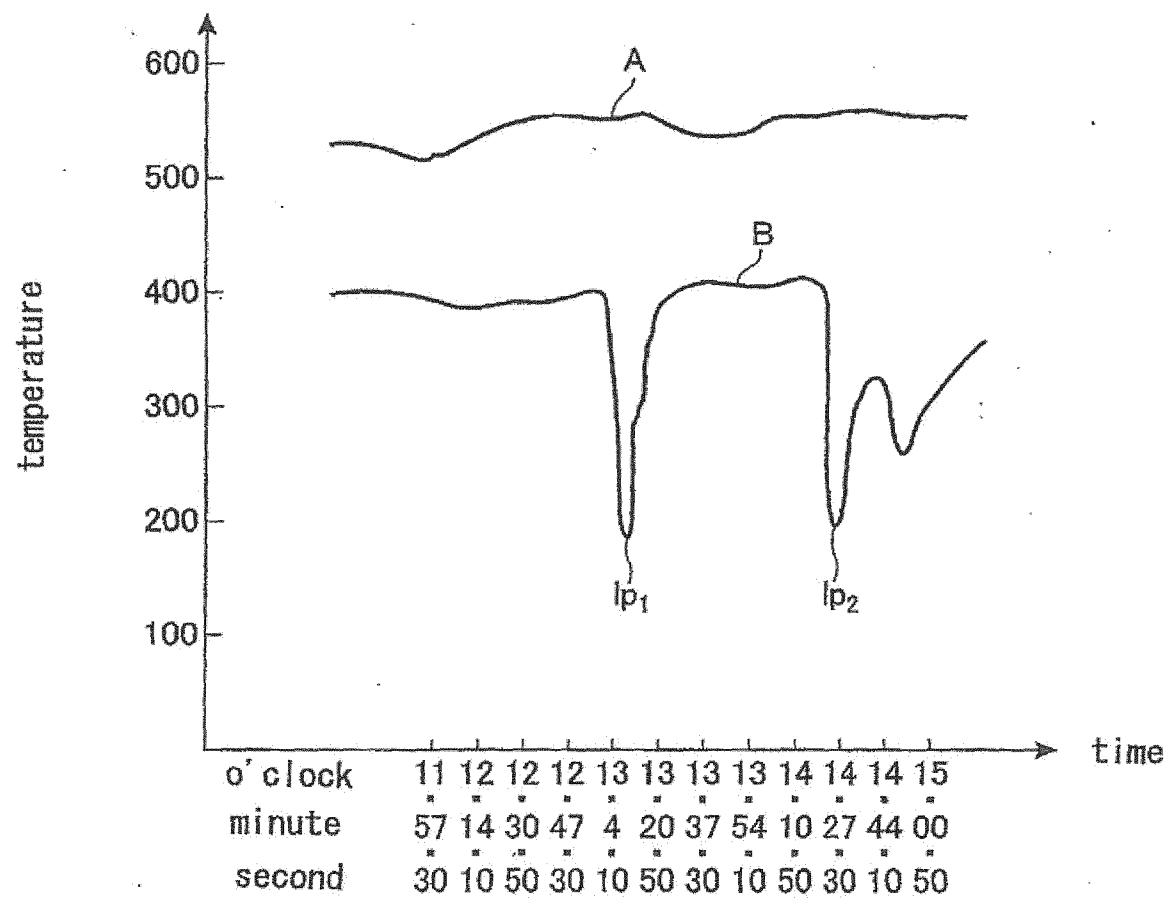


FIG.8

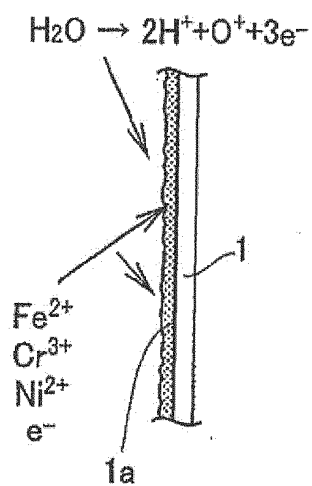


FIG.9

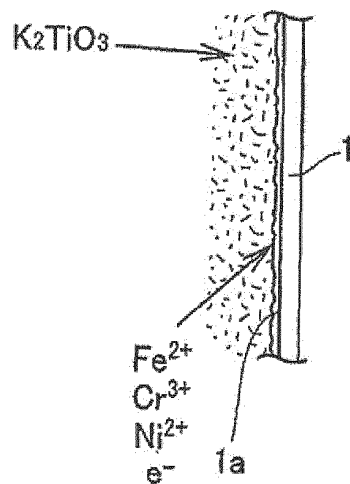


FIG.10

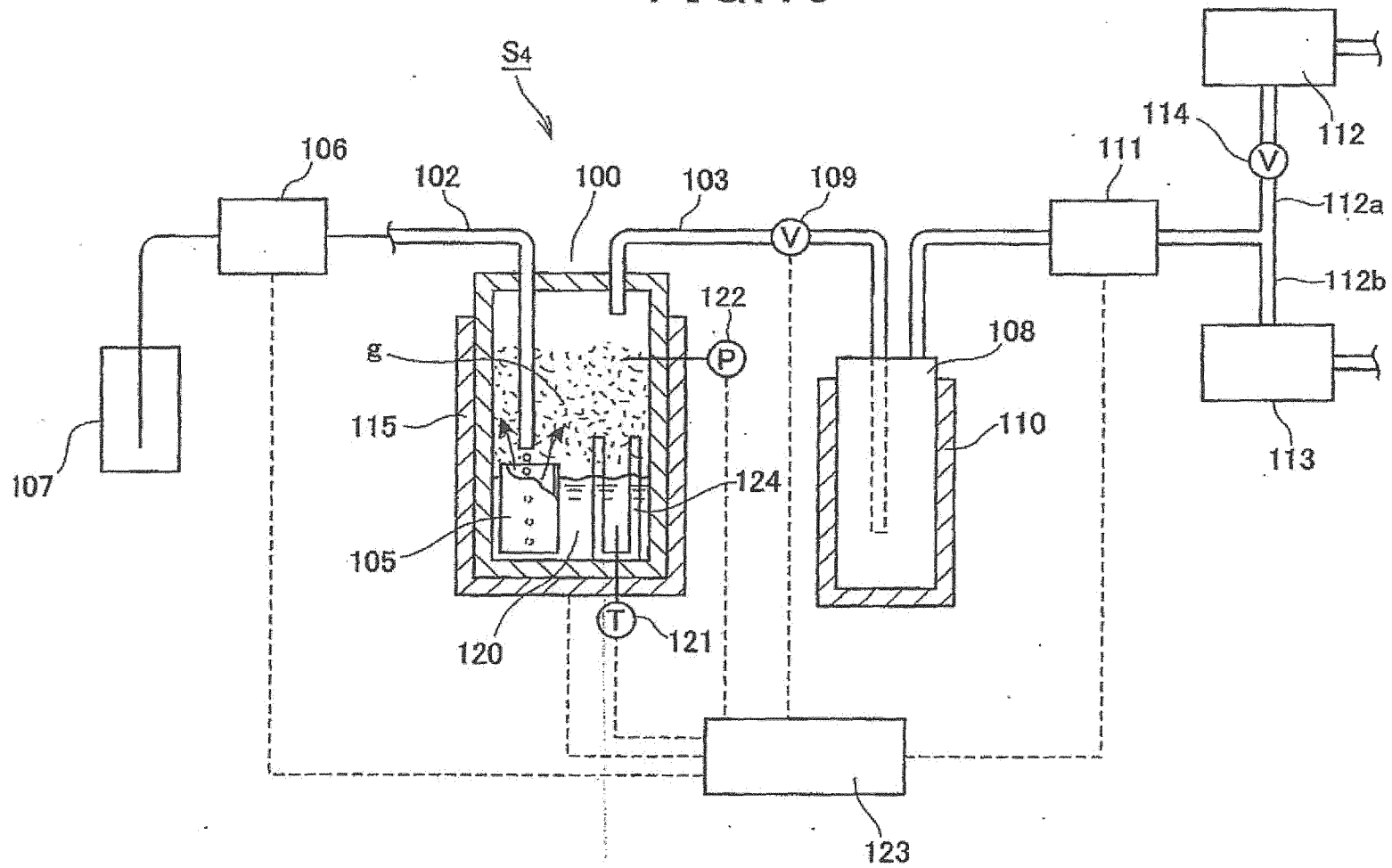


FIG.11

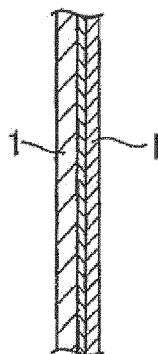


FIG.12

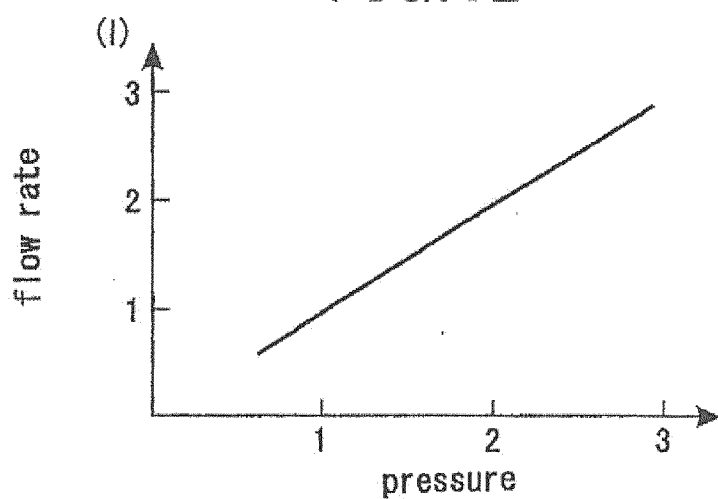


FIG.13

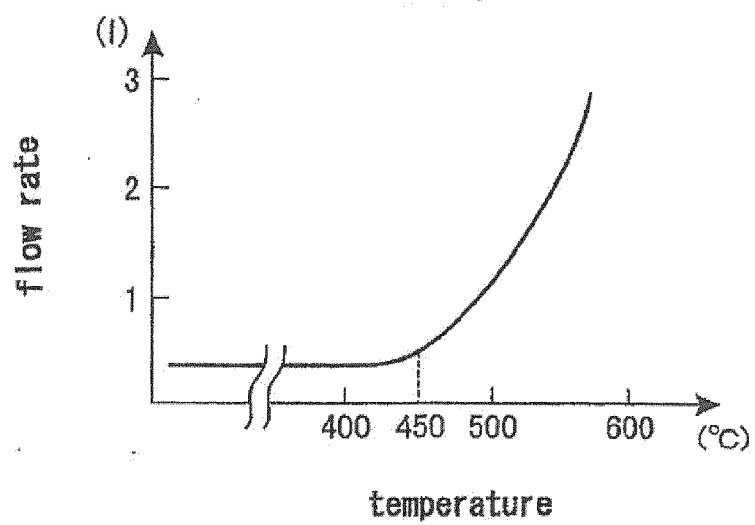


FIG. 14

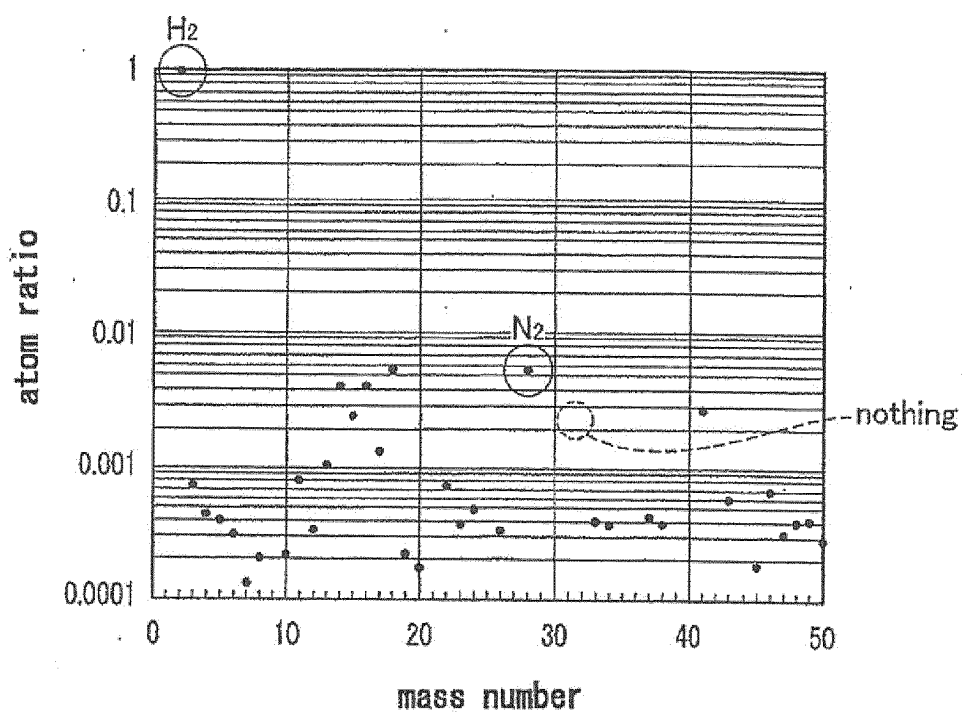


FIG. 15

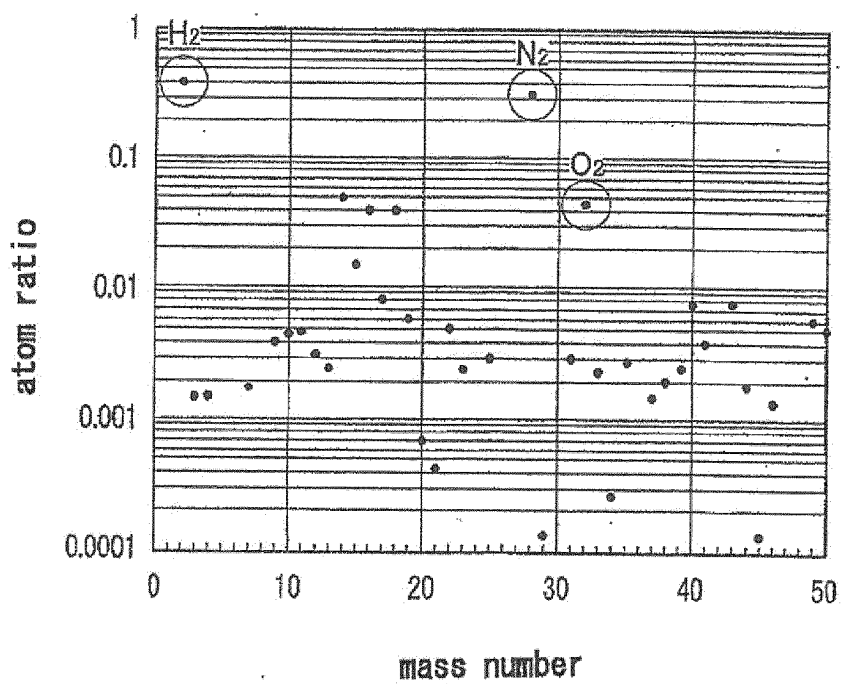


FIG.16

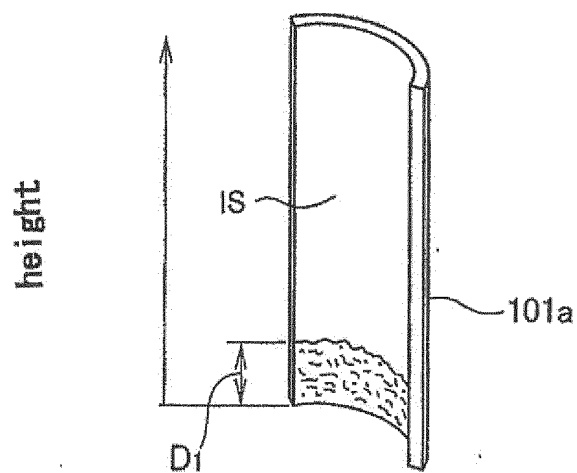


FIG.17

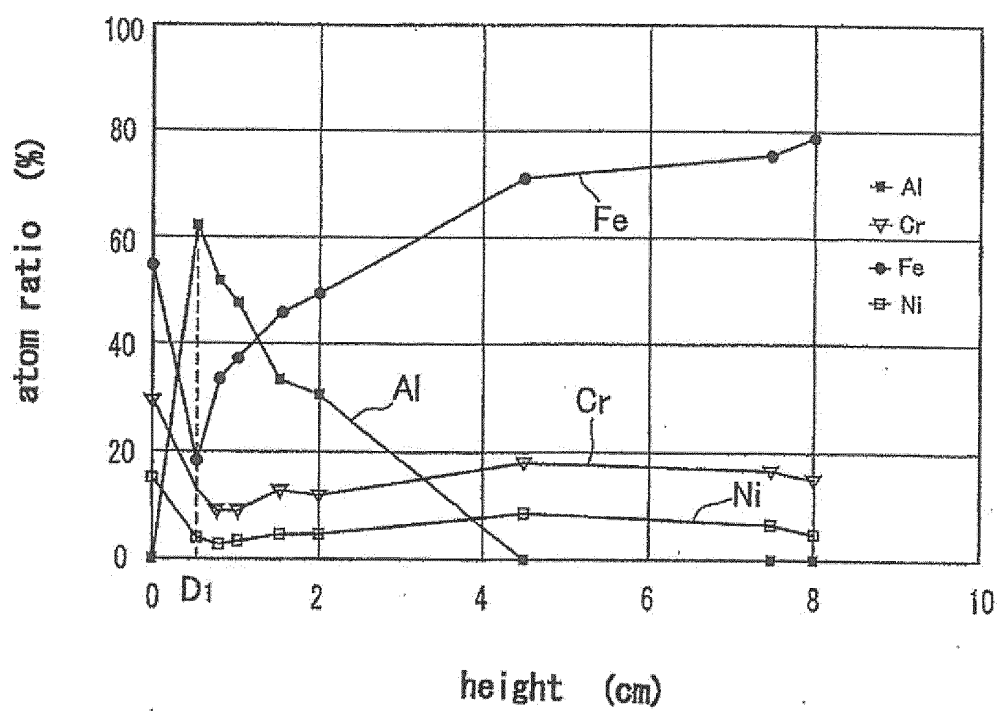


FIG. 18

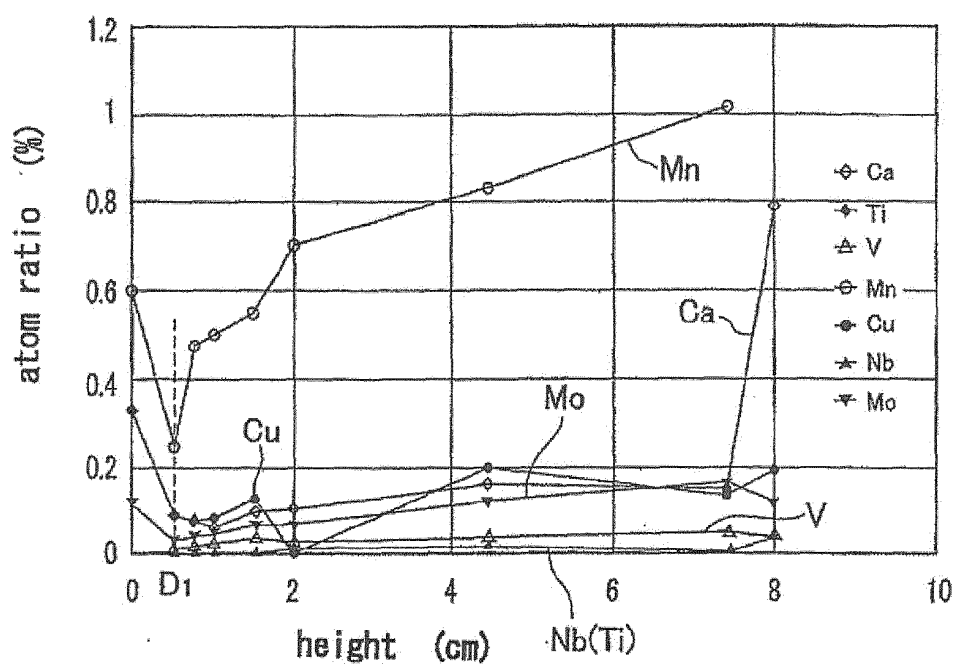


FIG. 19

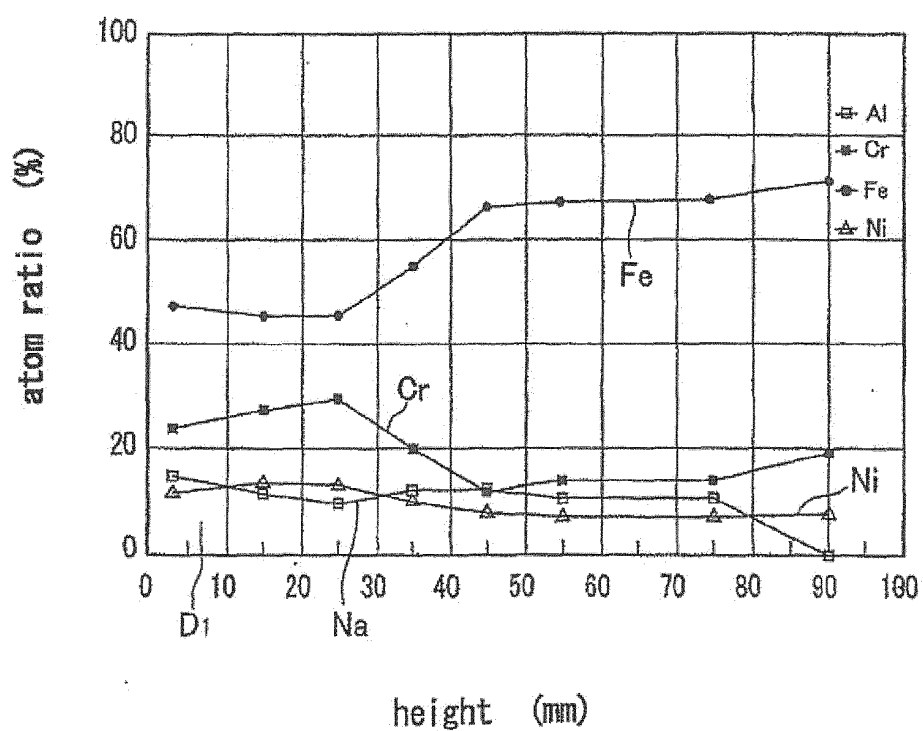


FIG.20

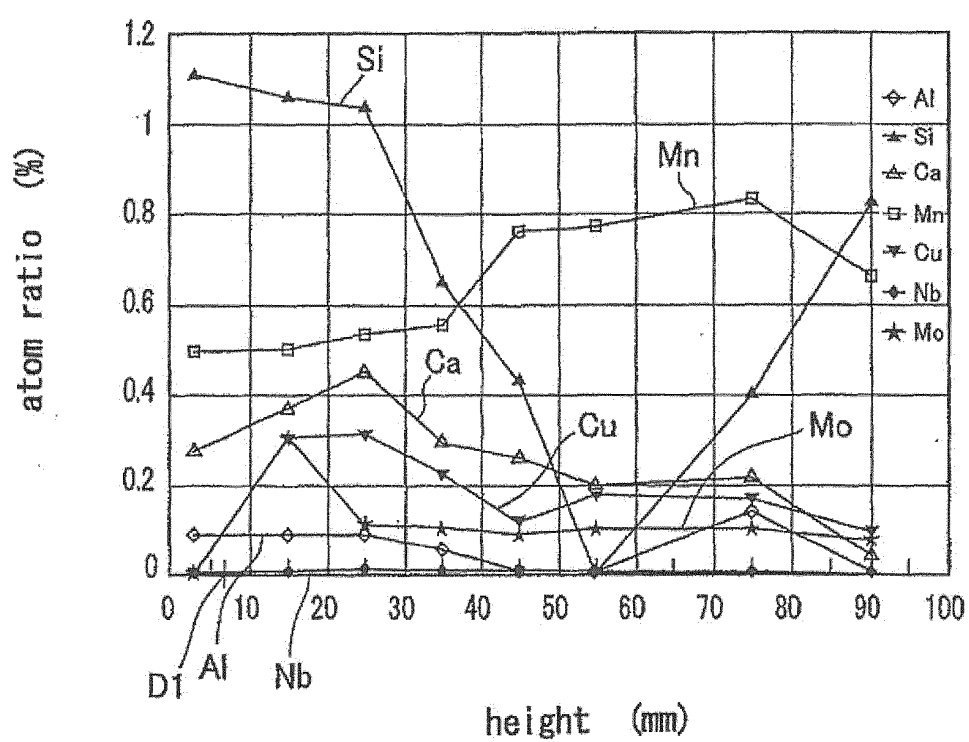


FIG.21

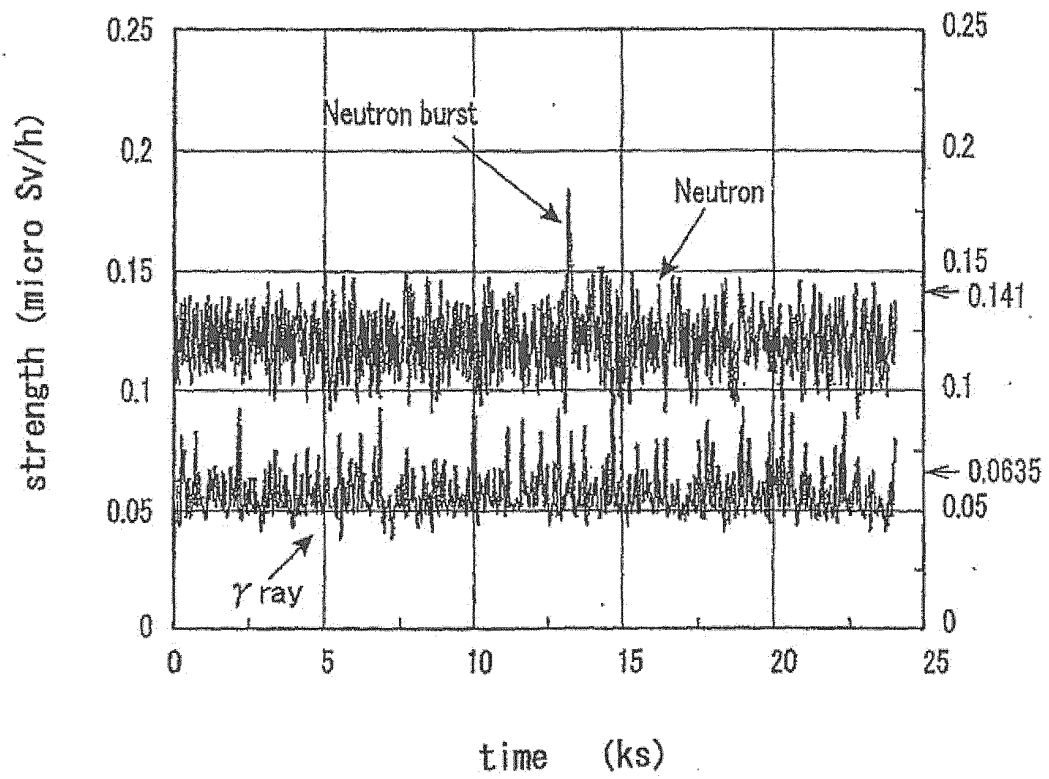


FIG.22

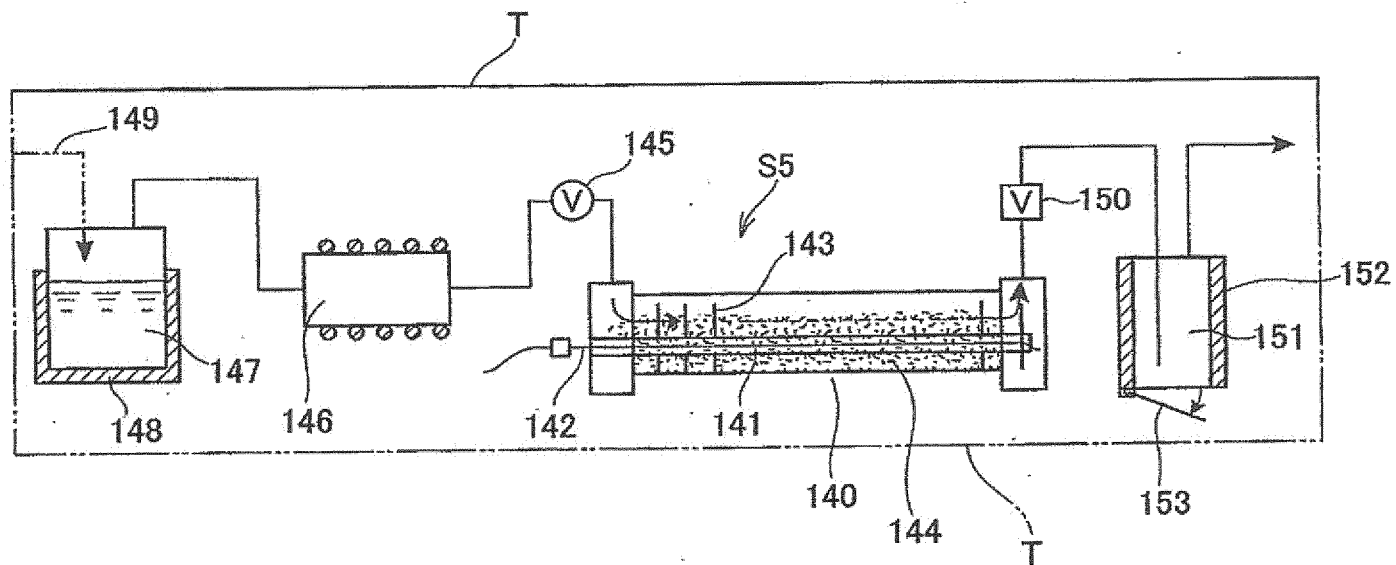


FIG.23

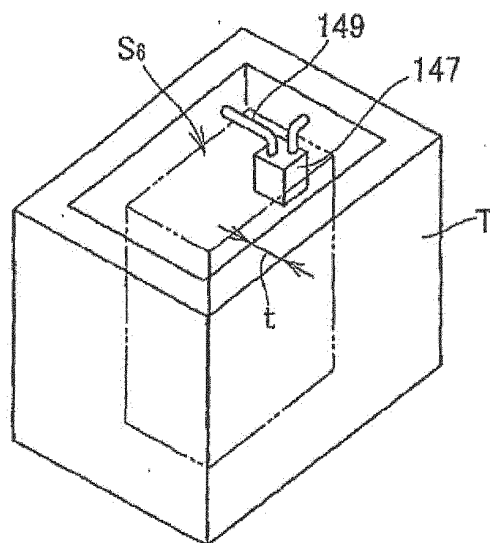
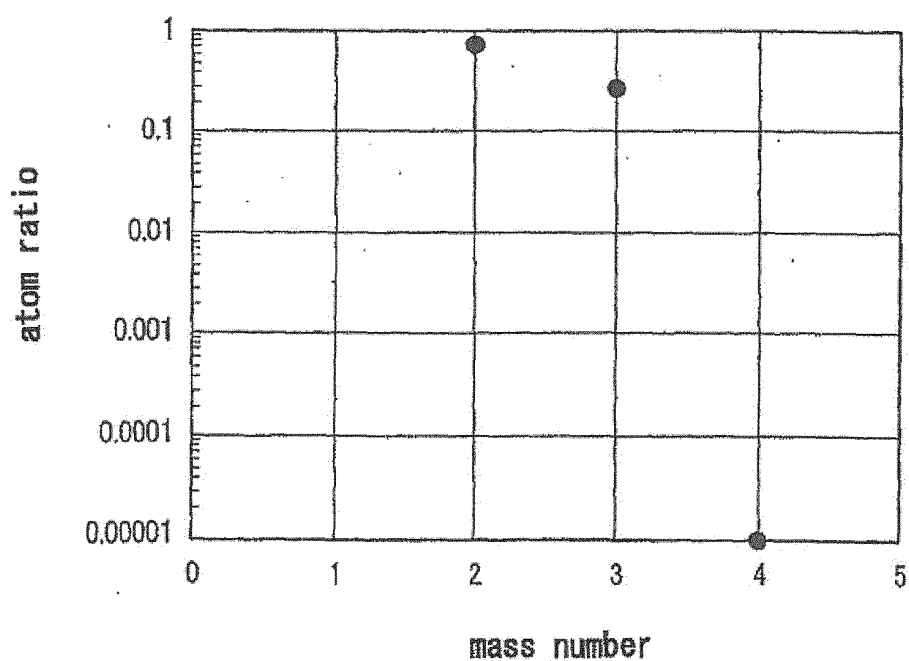


FIG.24



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

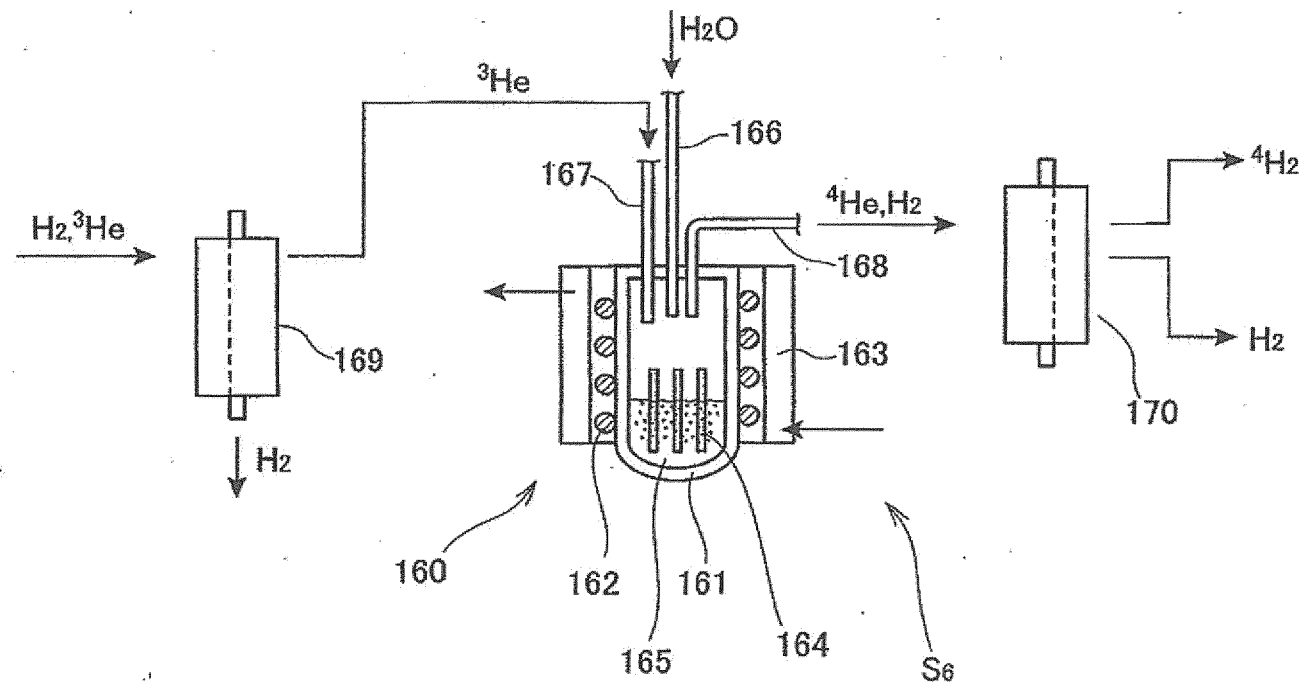


FIG.26

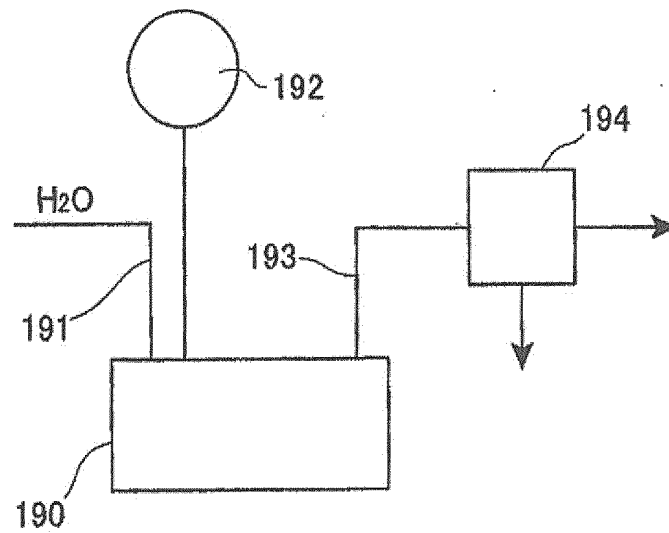


FIG.27

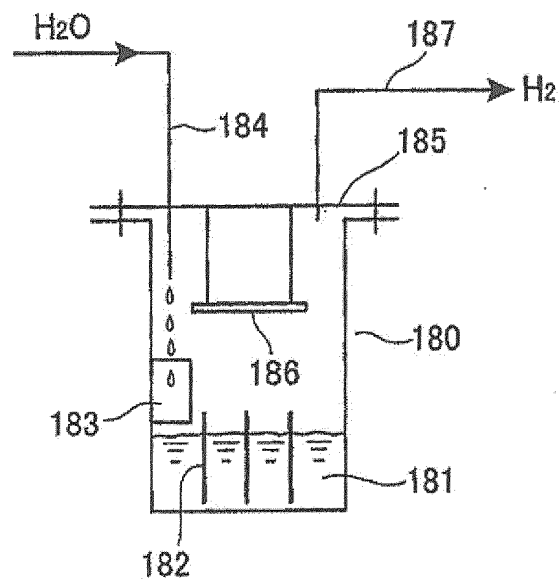


FIG. 28

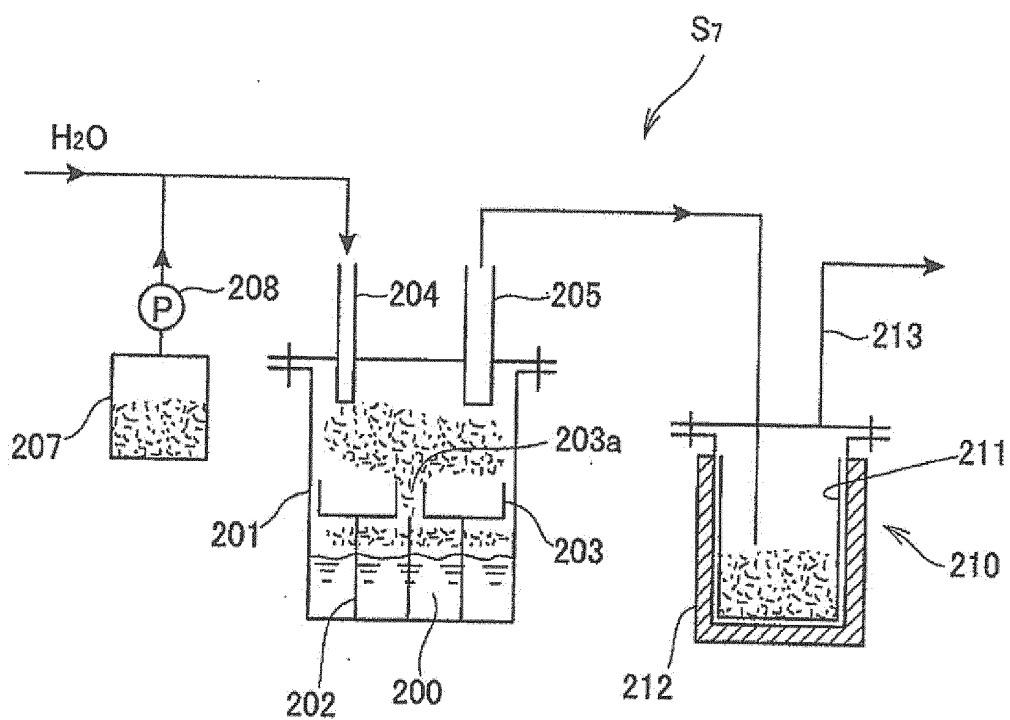


FIG.29

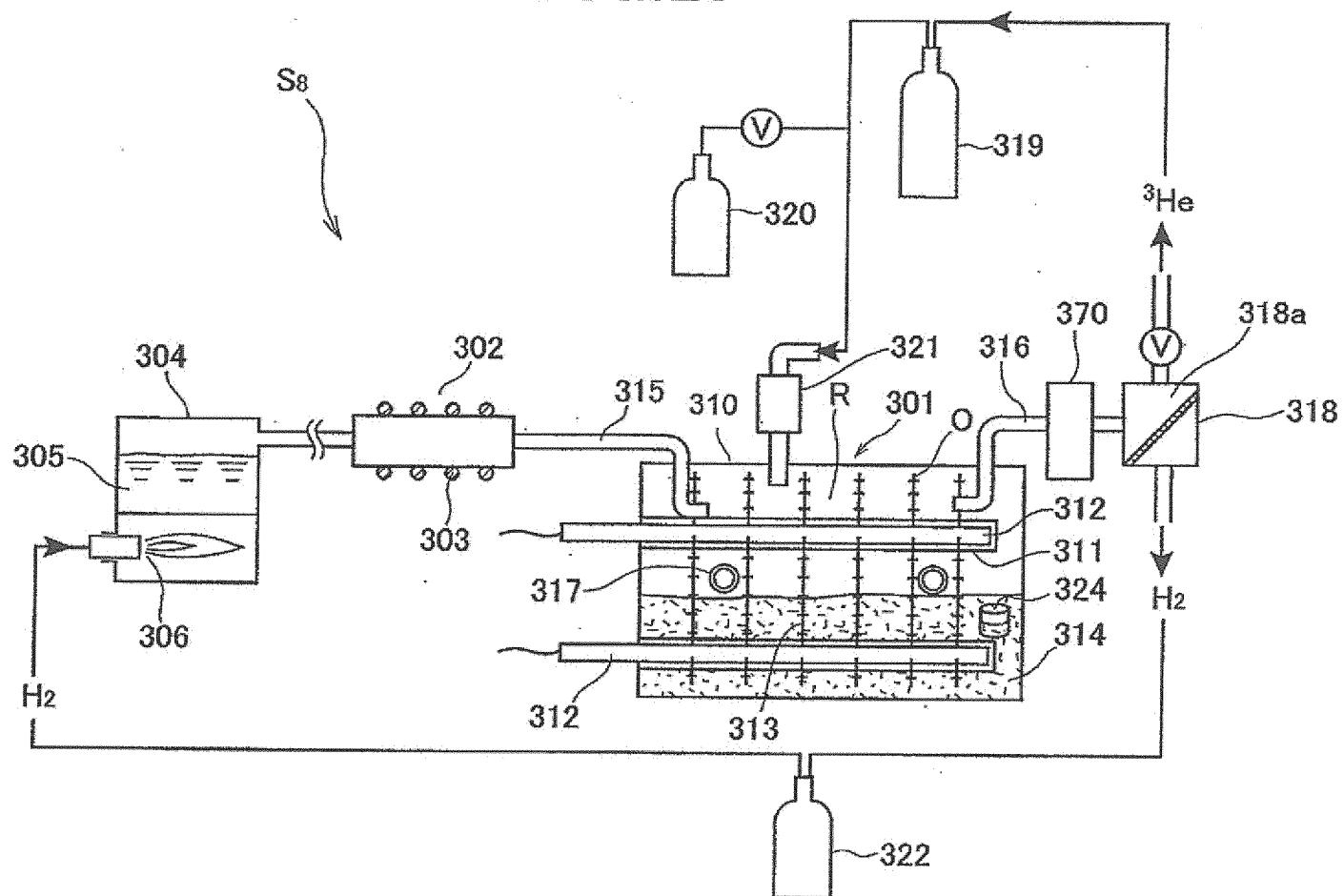


FIG. 30

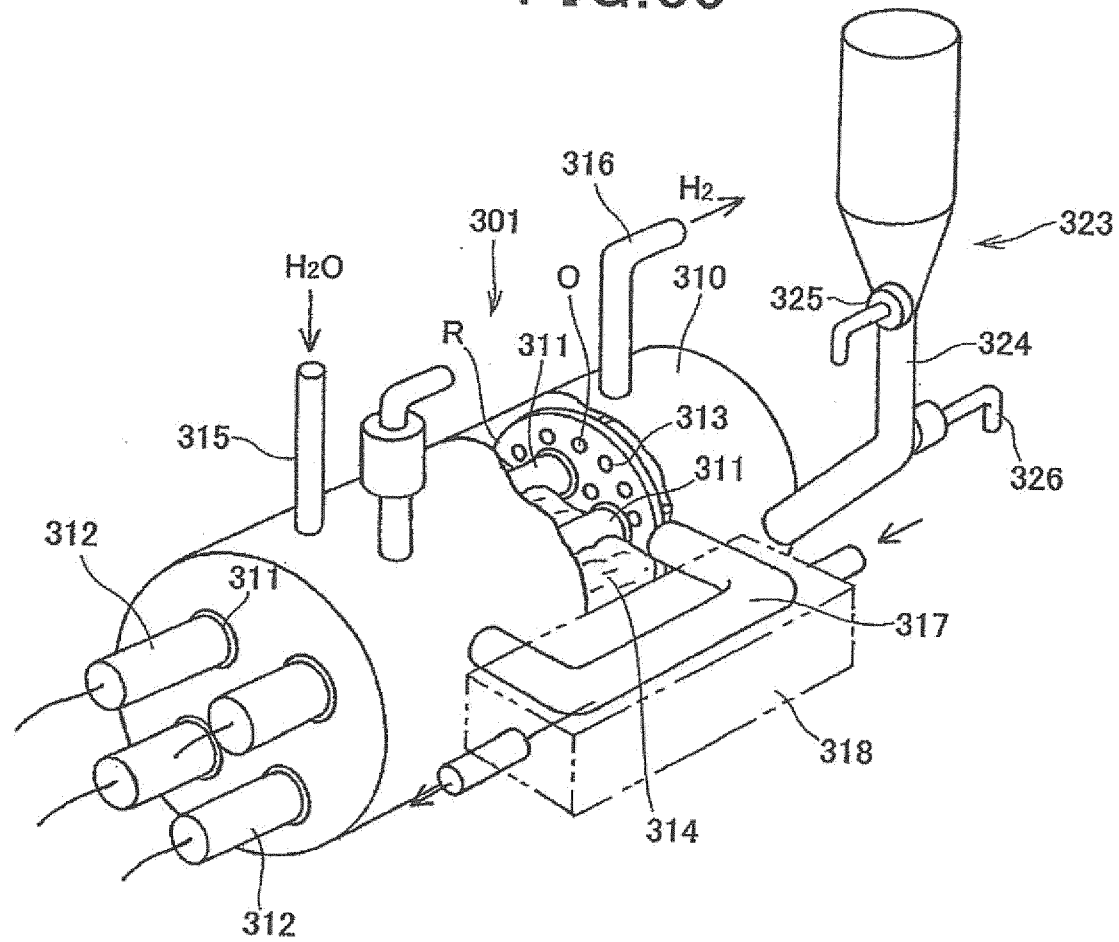


FIG.31

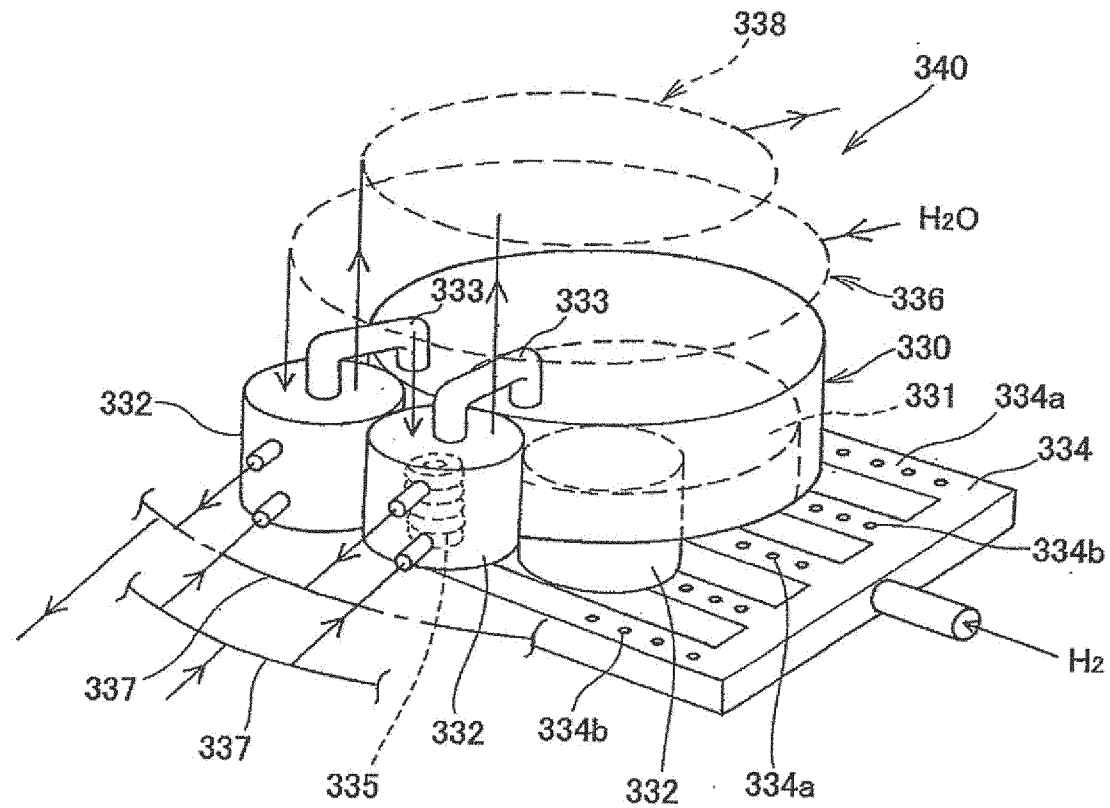


FIG. 32

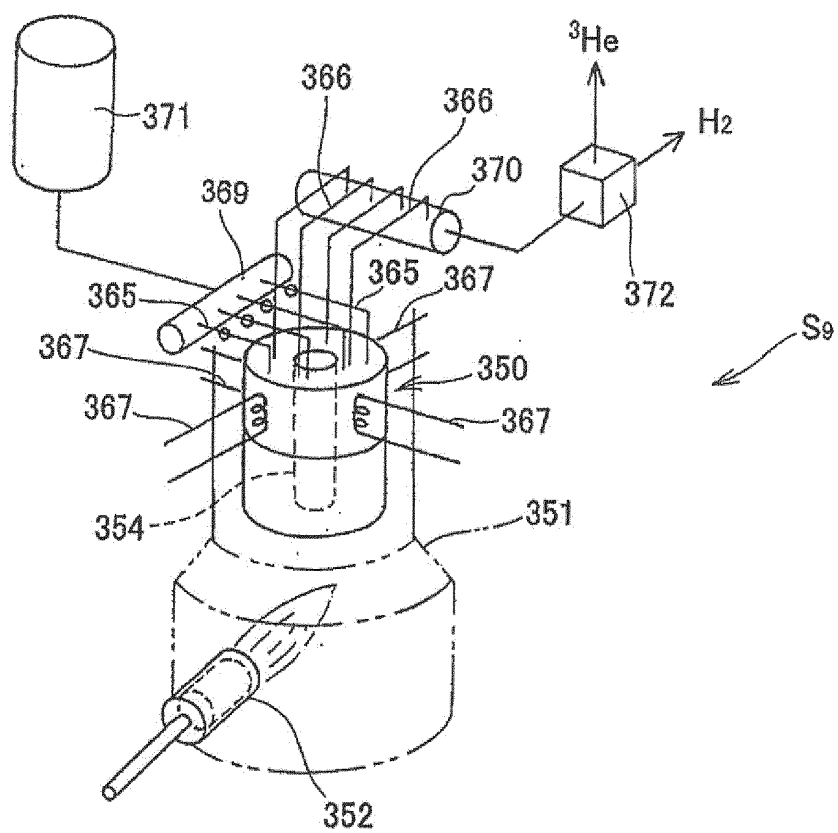


FIG.33

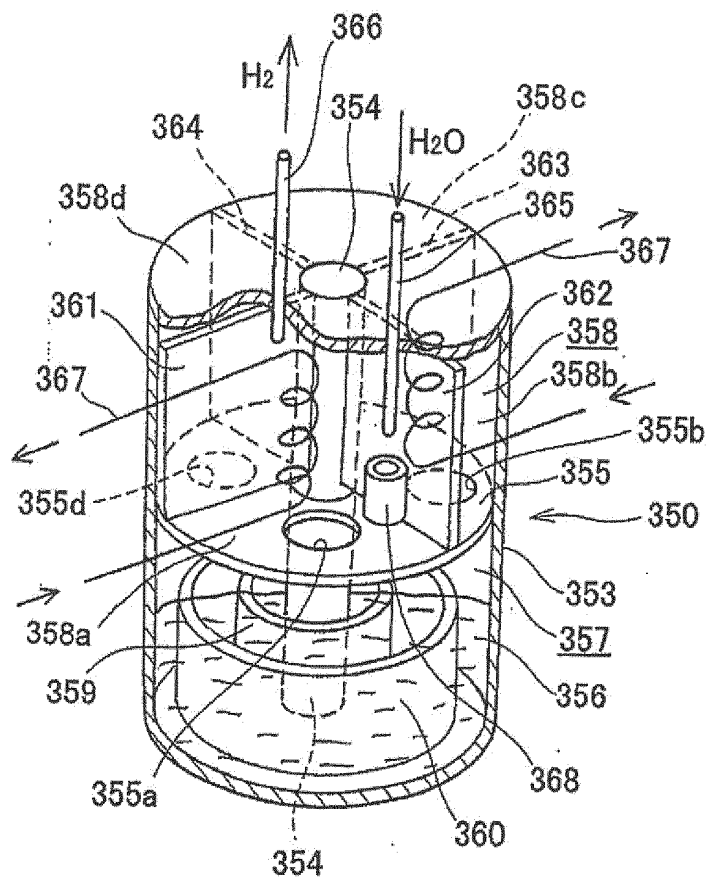


FIG.34

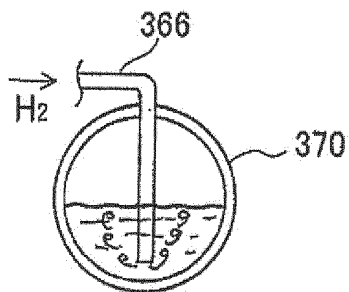


FIG.35

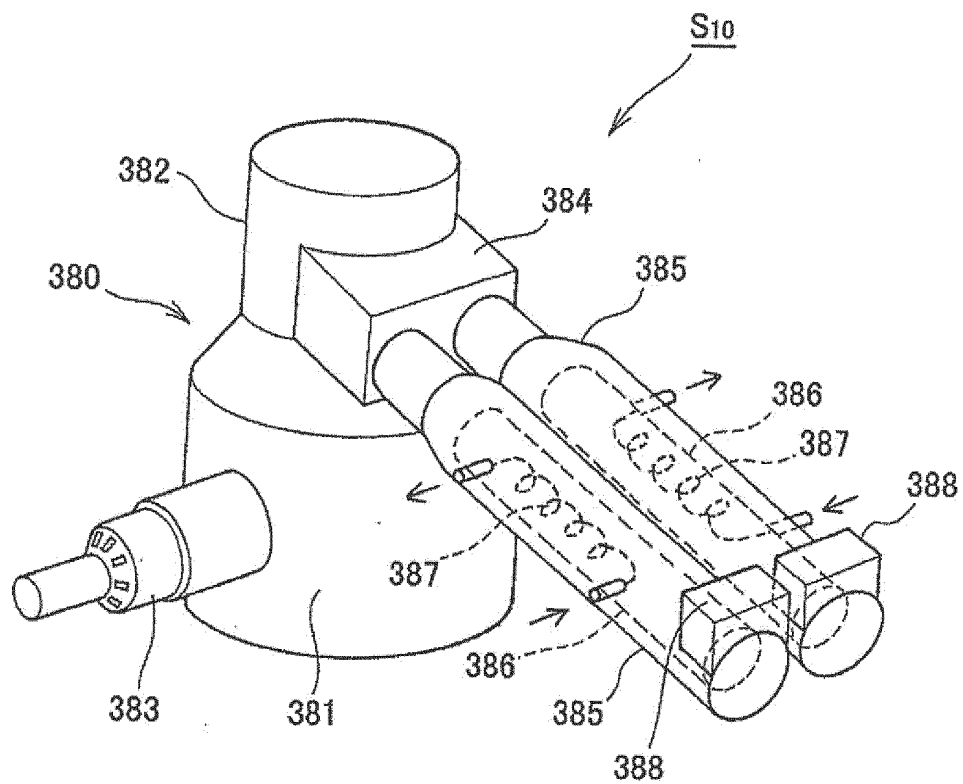


FIG.36

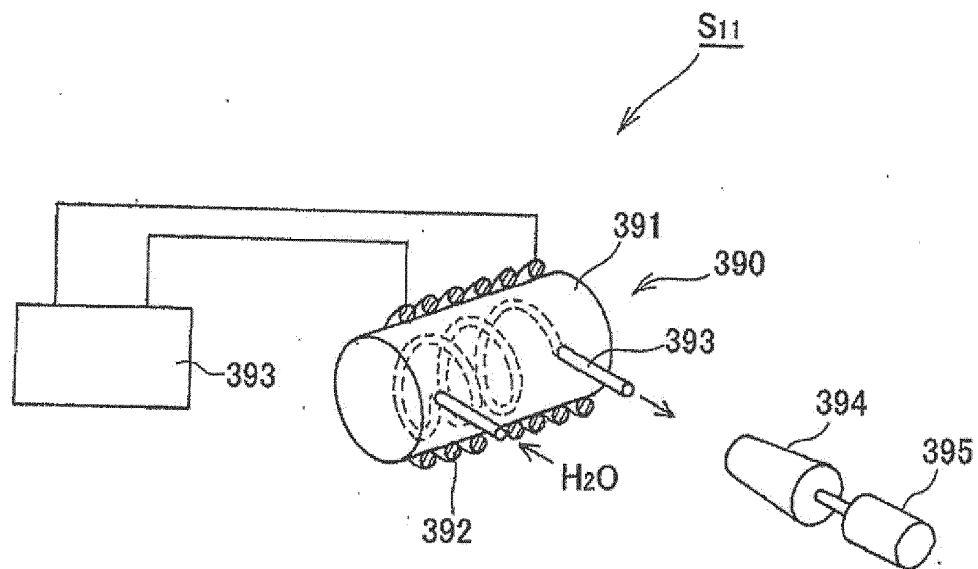


FIG.37

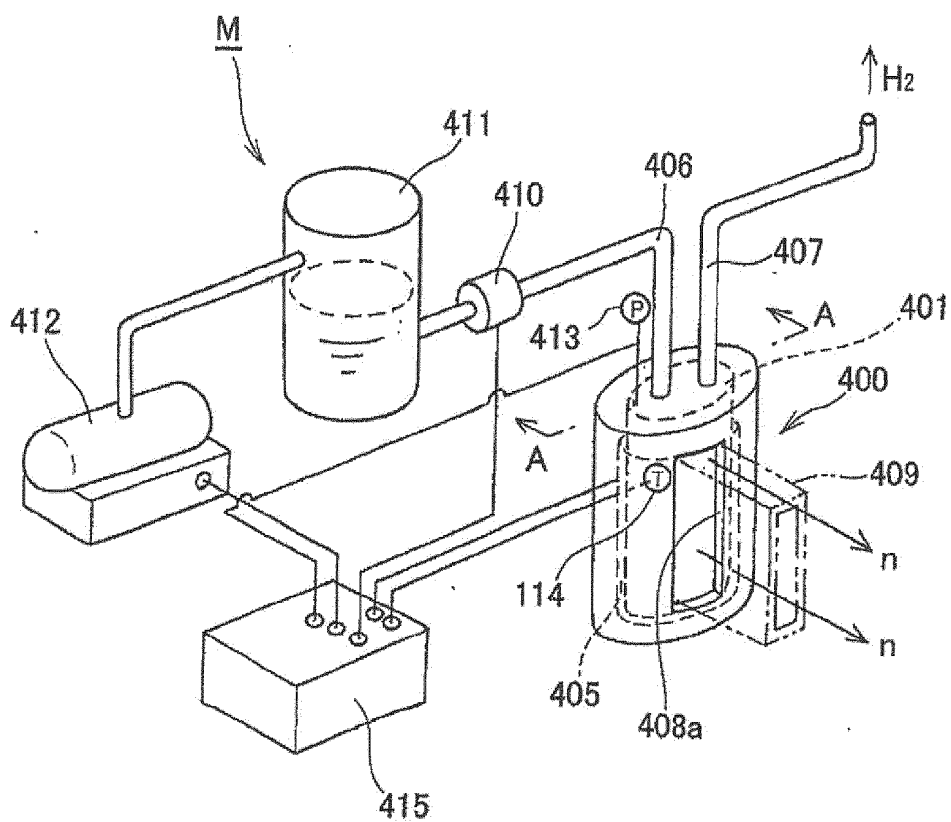


FIG.38

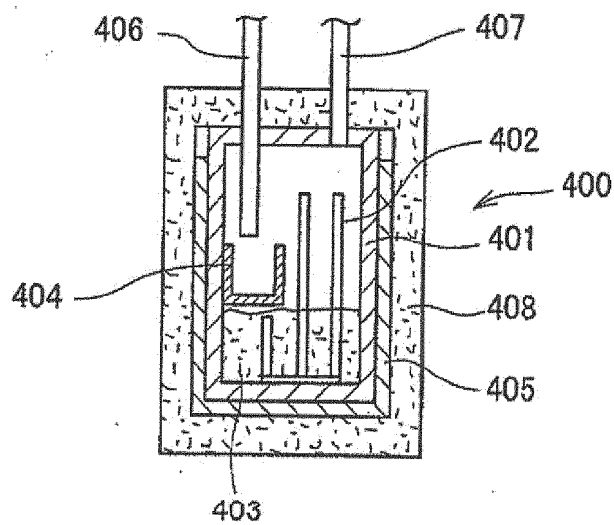


FIG.39

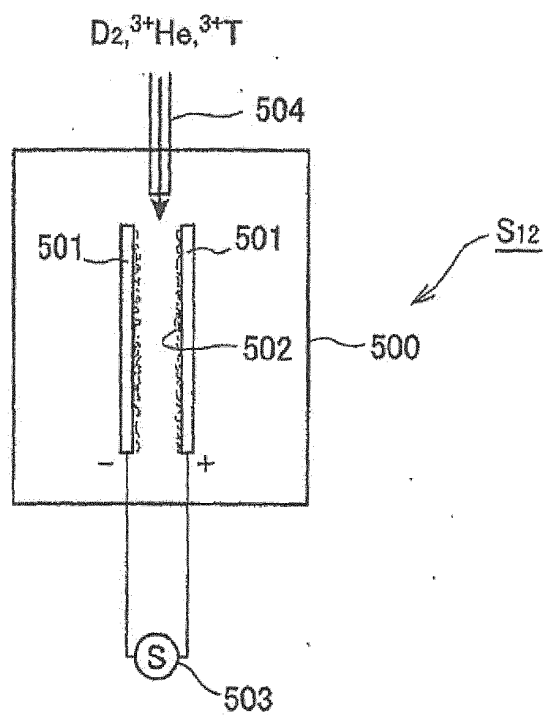


FIG.40

