

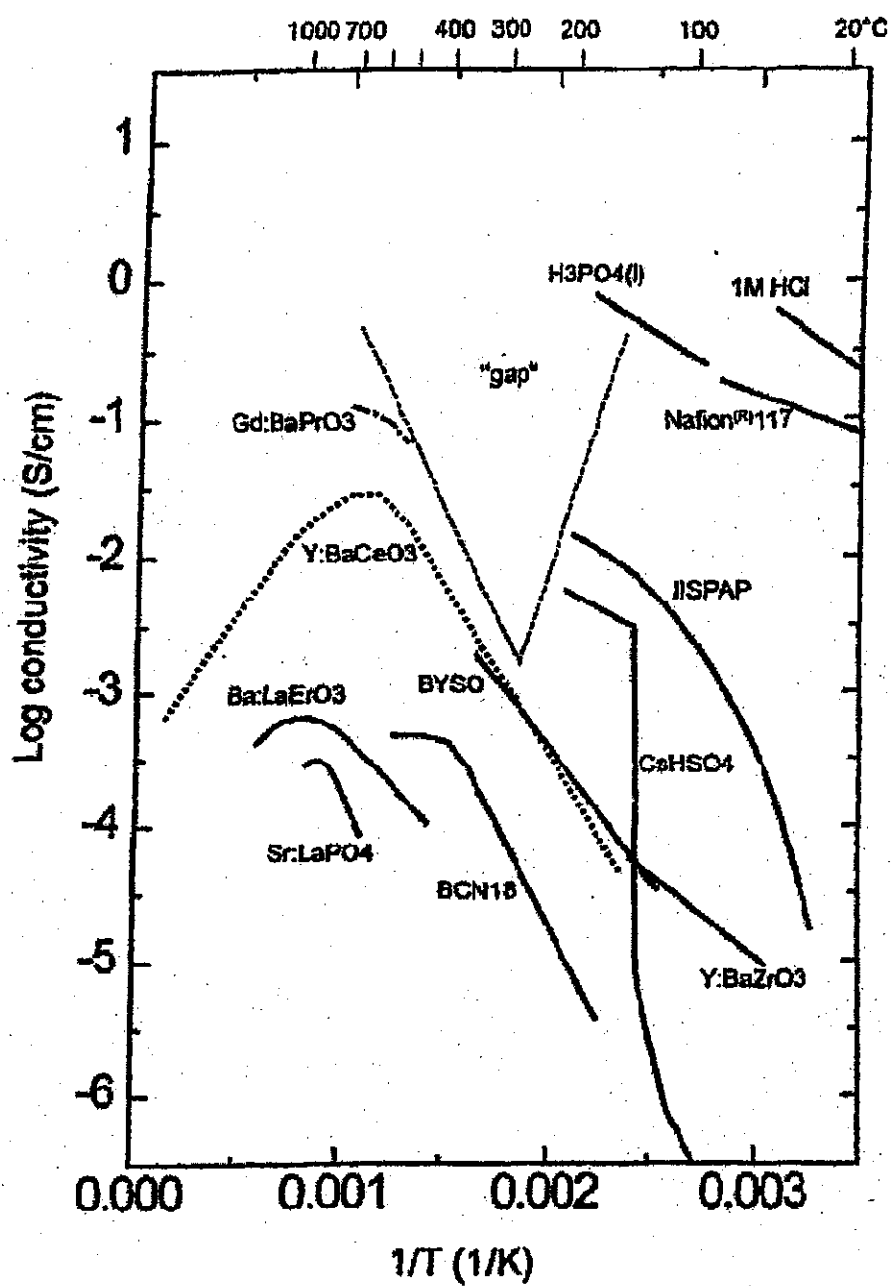


Figure 1

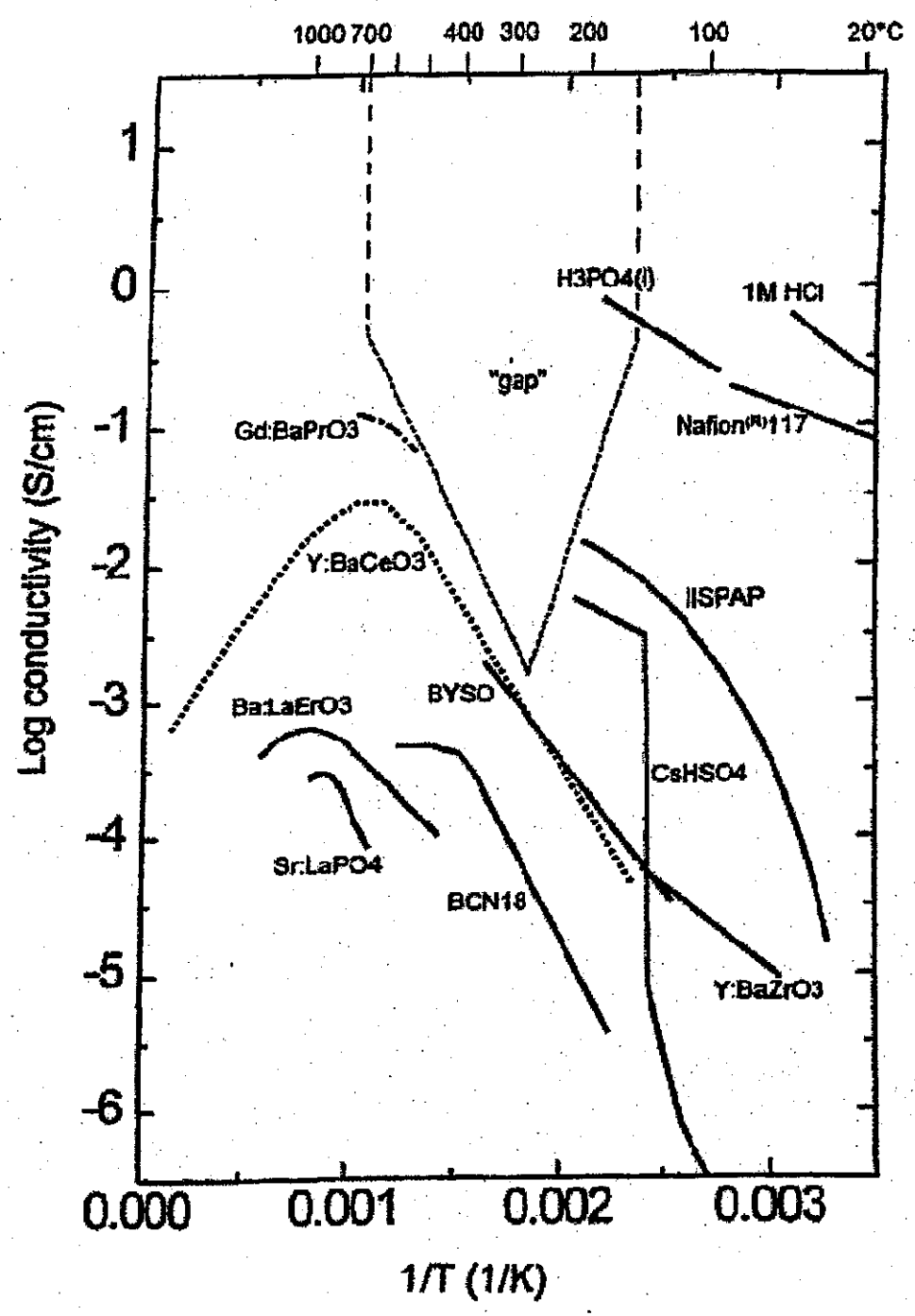
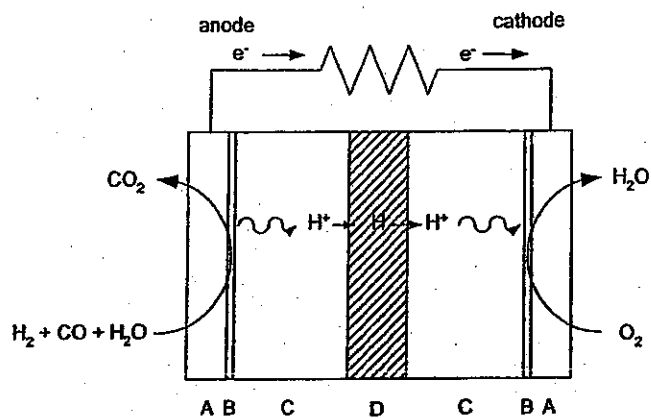


Figure 2



A: Porous Gas Diffusion Electrode
B: Electrocatalyst Layer
C: Proton Permeable Electronic Insulator Layer
D: Palladium Membrane

Figure 3

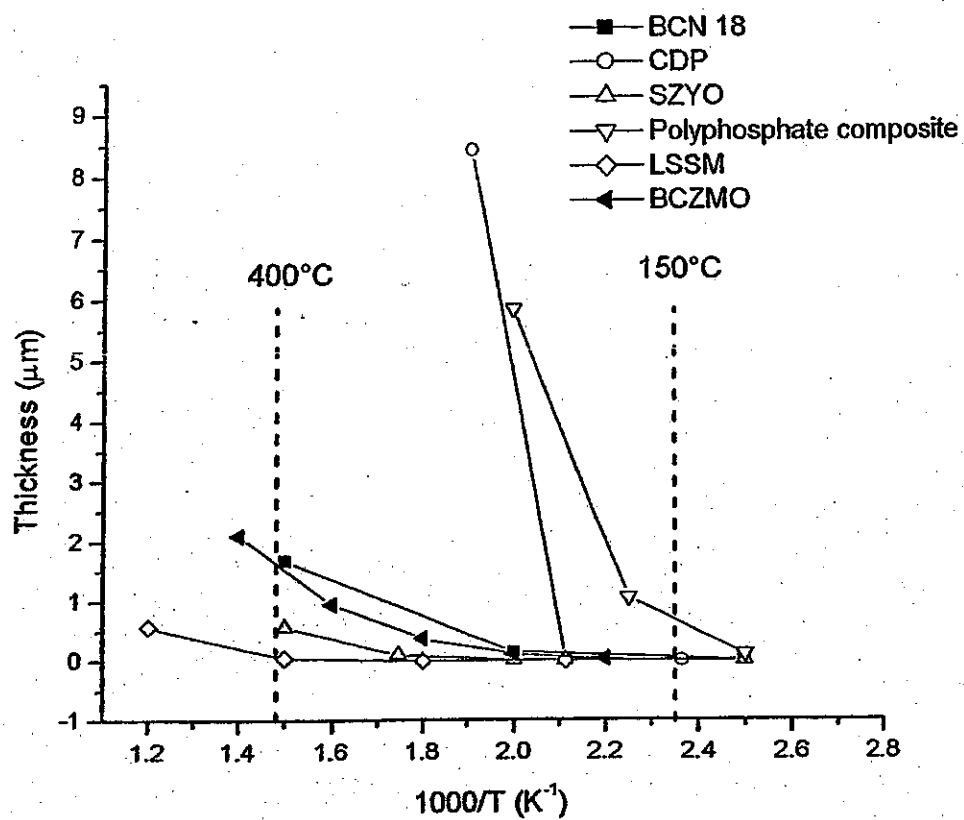


Figure 4

Membrane Electrolyte Assembly

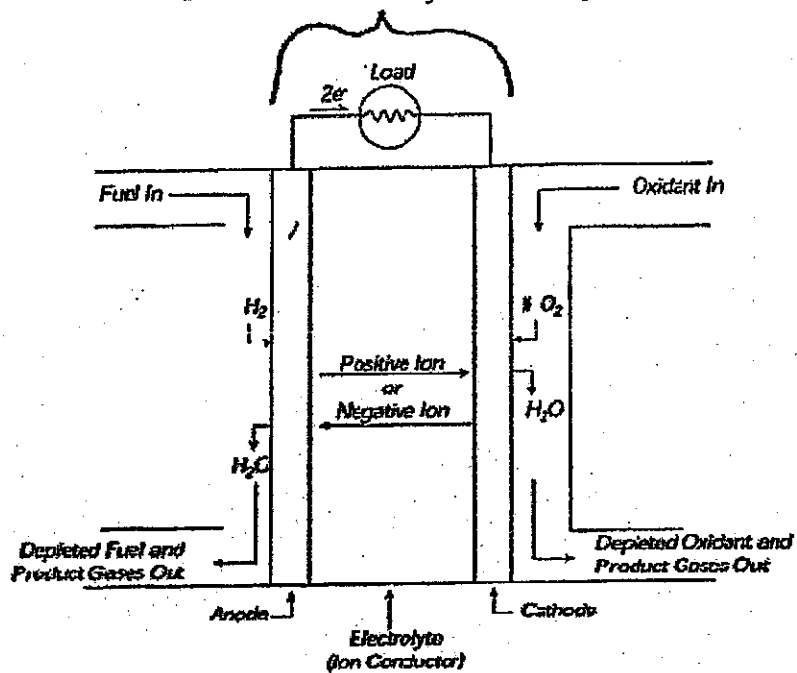
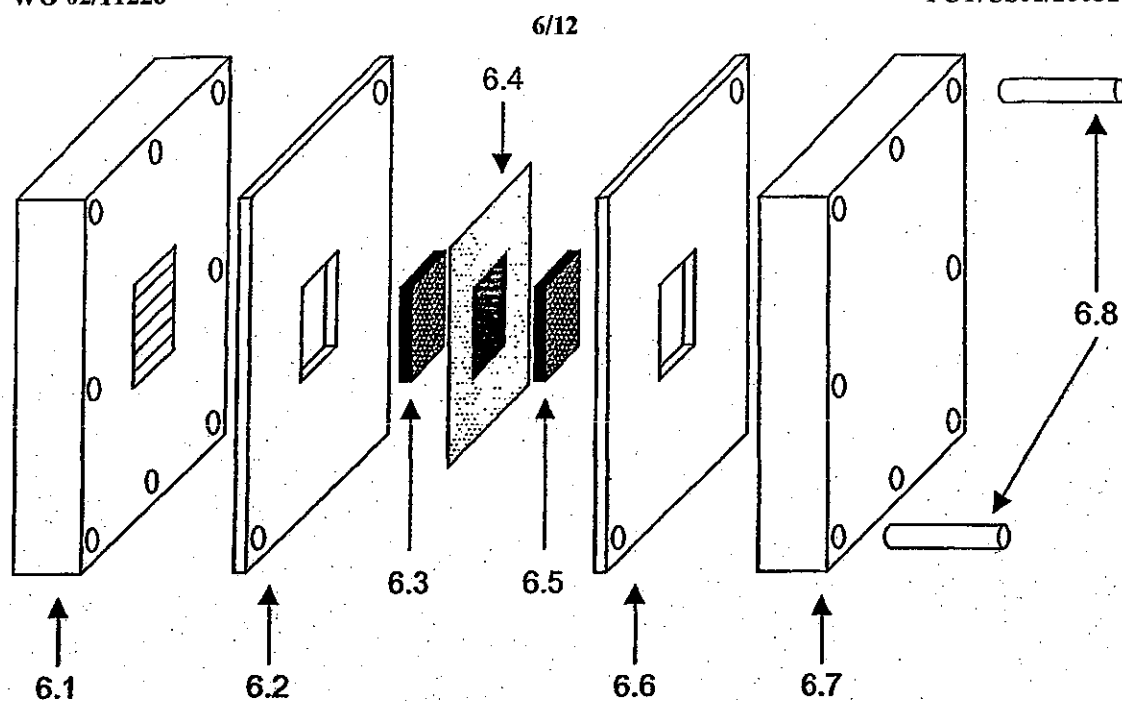


Figure 5



- 6.1 Graphite block with anode flow field
- 6.2 PTFE gasket
- 6.3 Anode: catalyzed gas diffusion layer (carbon cloth)
- 6.4 Proton Conducting Composite Membrane comprising an electronically insulating proton conductor (hatched section) supported on a metal hydride, i.e., Pd foil (dotted section)
- 6.5 Cathode: catalyzed gas diffusion layer (carbon cloth)
- 6.6 PTFE gasket
- 6.7 Graphite block with cathode flow field
- 6.8 Alignment pins

Figure 6

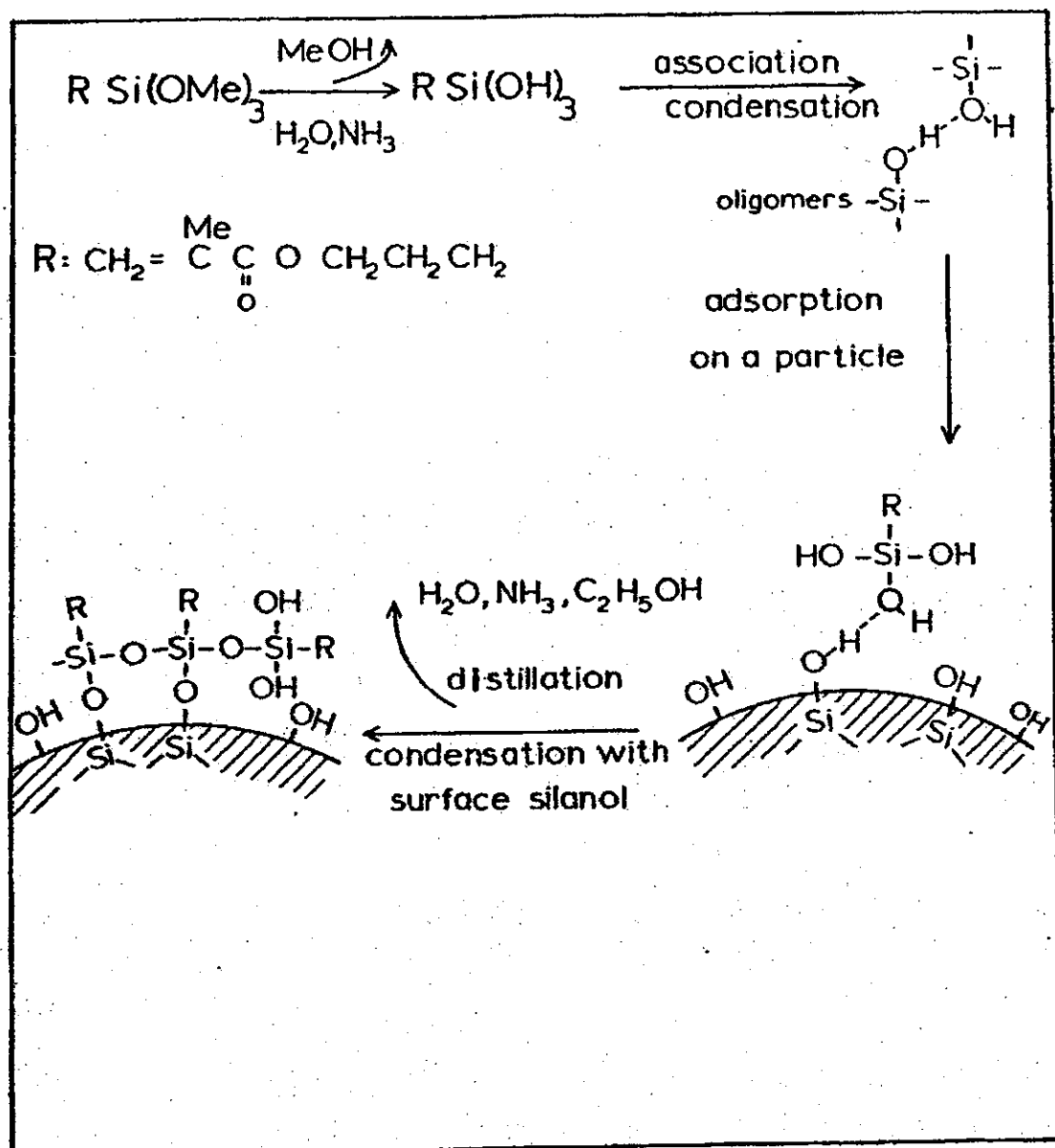
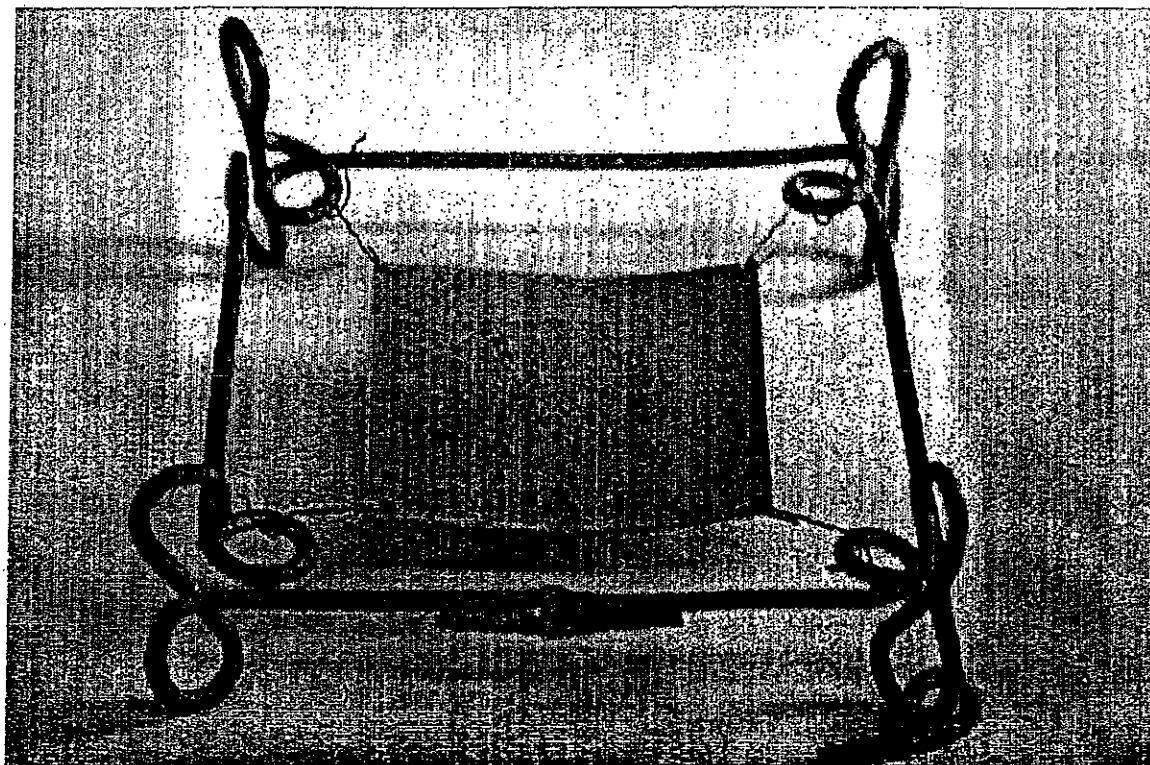


Figure 7

**Figure 8**

9/12

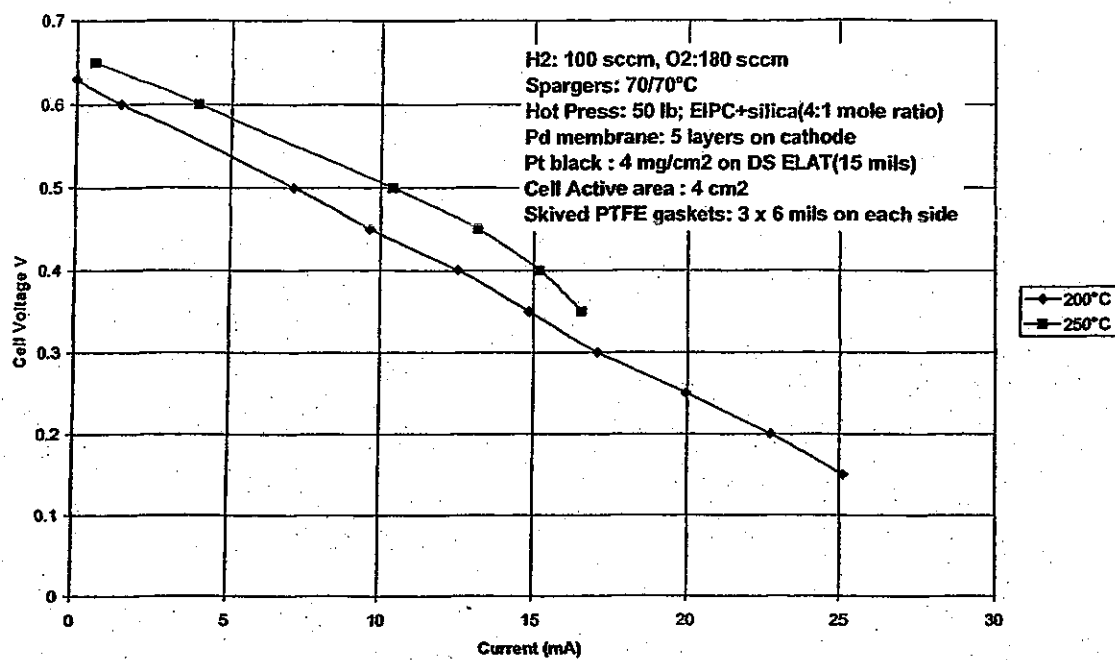
Intermediate temp fuel cell, H₂/O₂

Figure 9

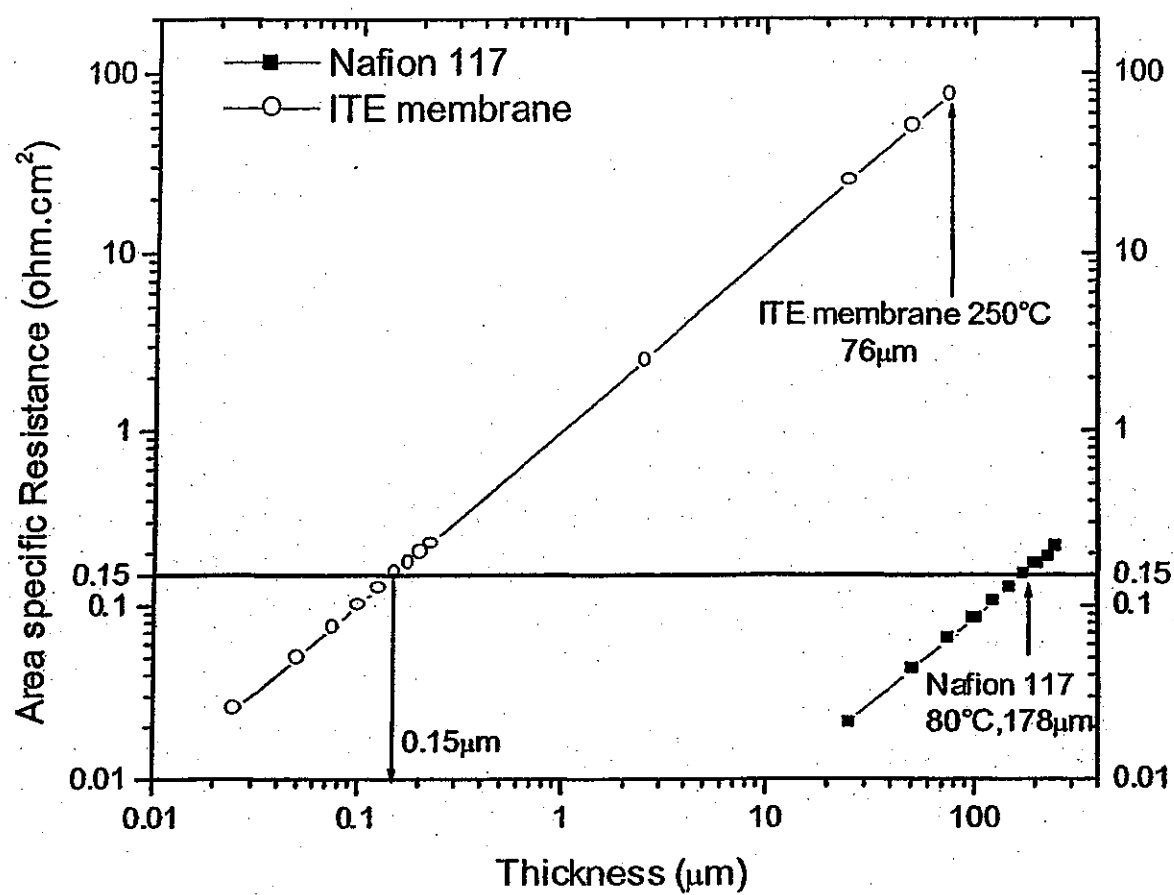
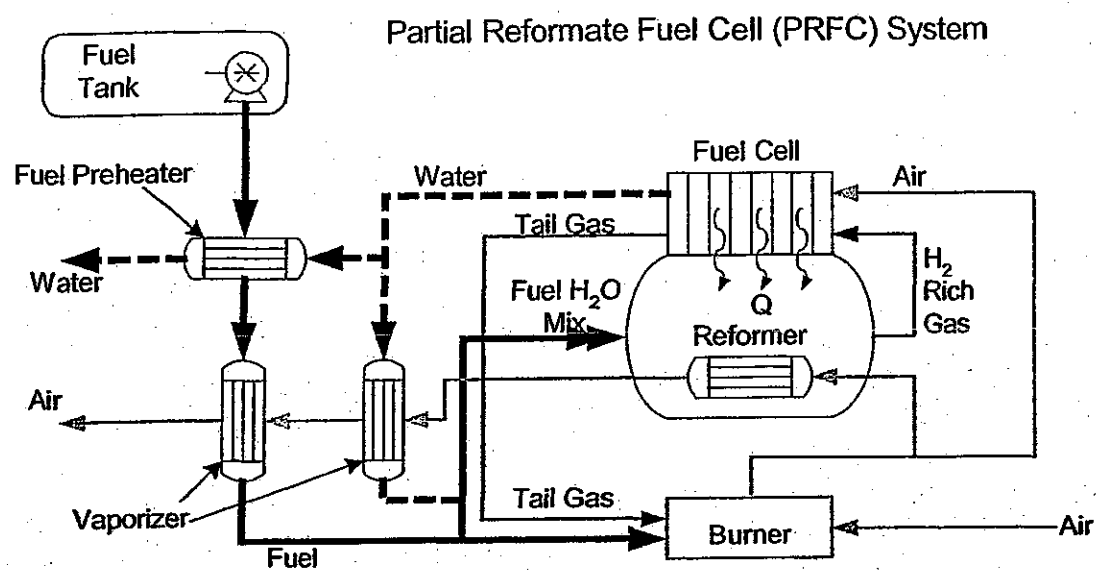


Figure 10

**Figure 11**

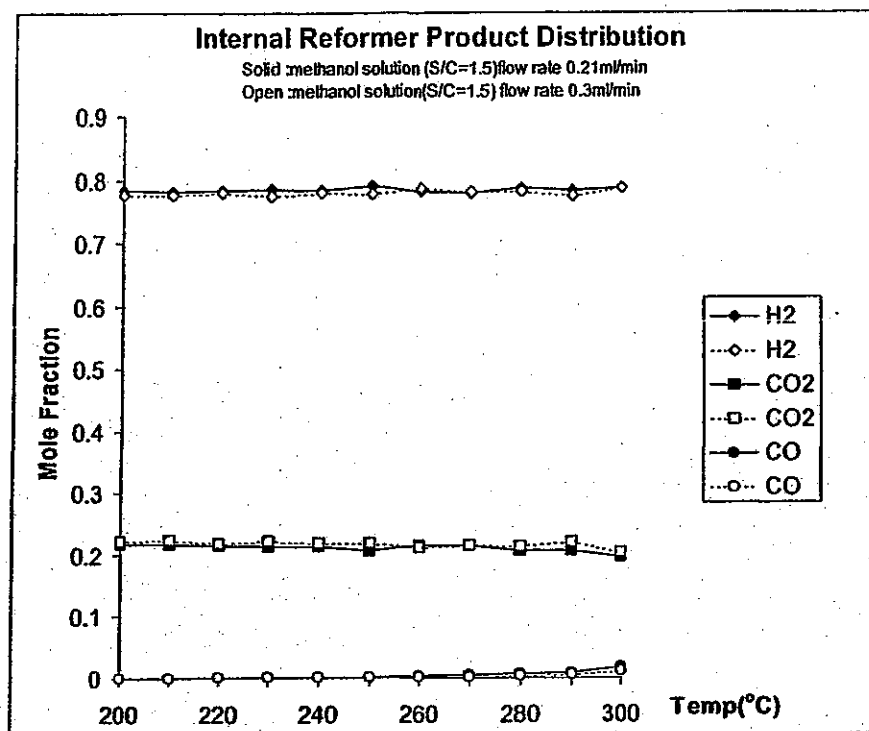


Figure 12