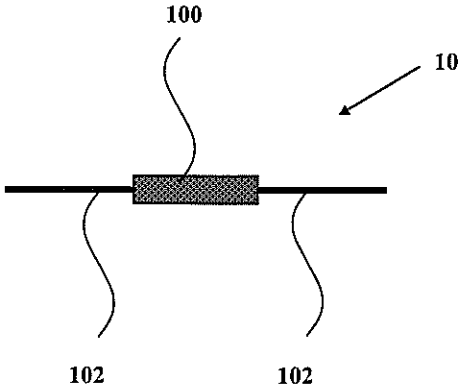


FIGURE 1

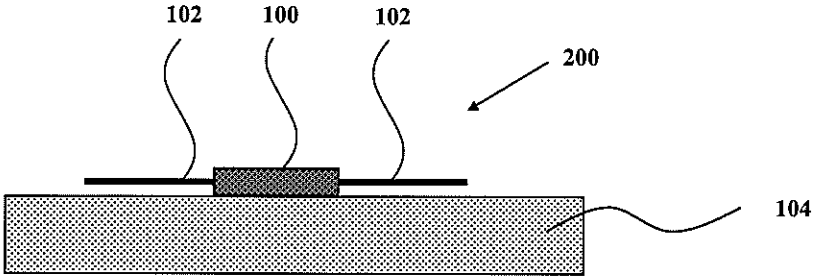


FIGURE 2A

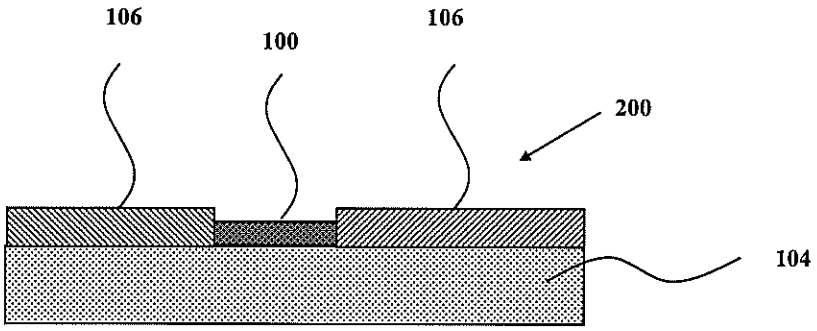


FIGURE 2B

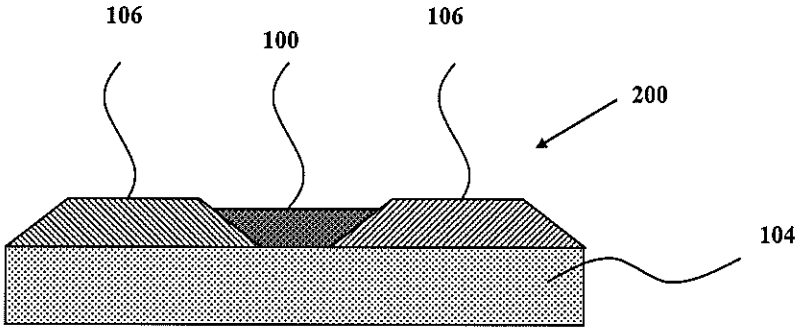


FIGURE 2C

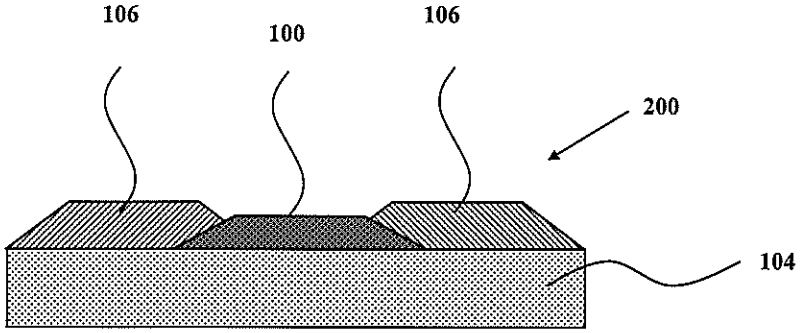


FIGURE 2D

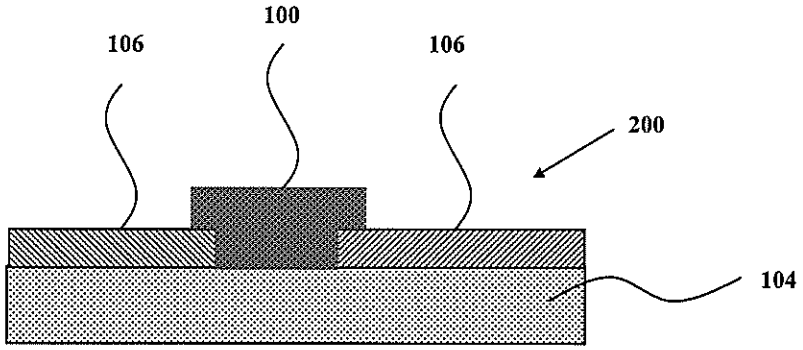


FIGURE 2E

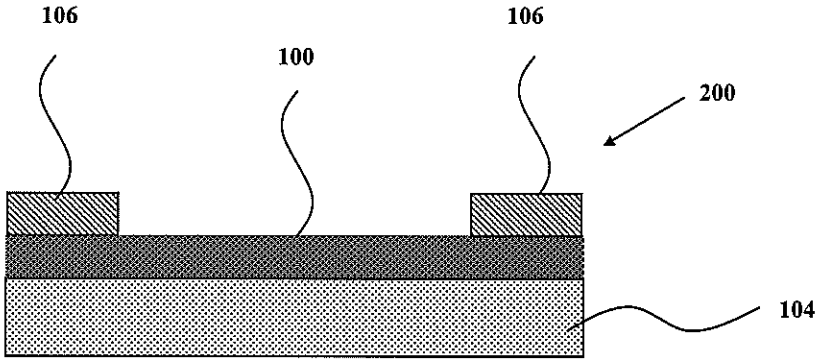


FIGURE 2F

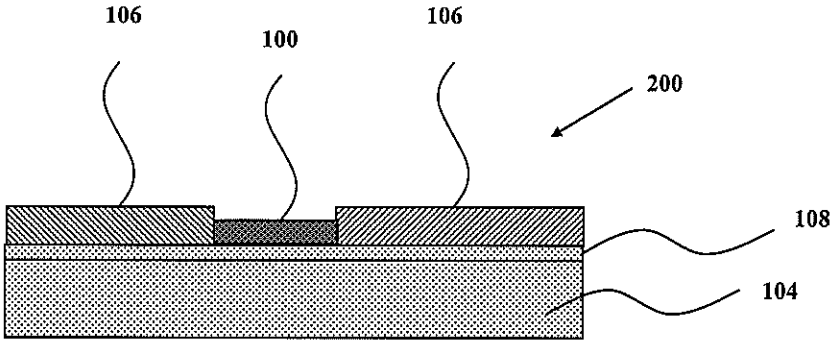


FIGURE 2G

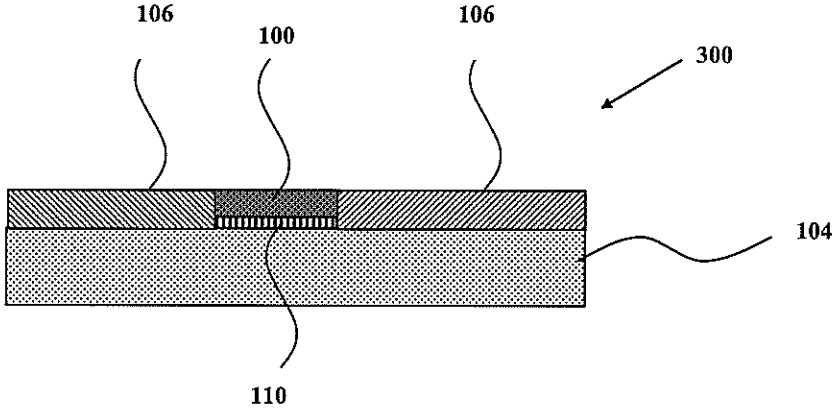


FIGURE 3A

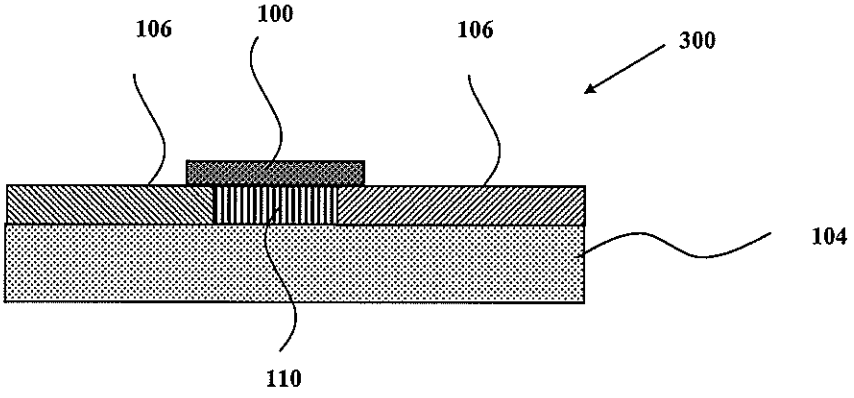


FIGURE 3B

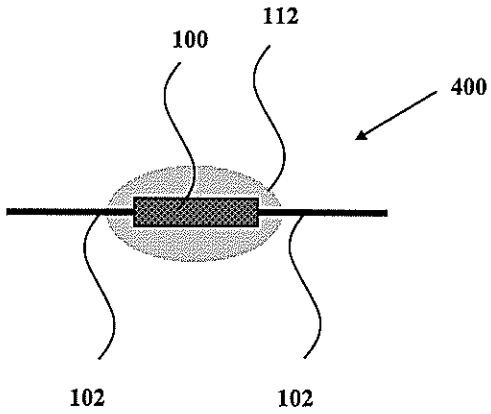


FIGURE 4A

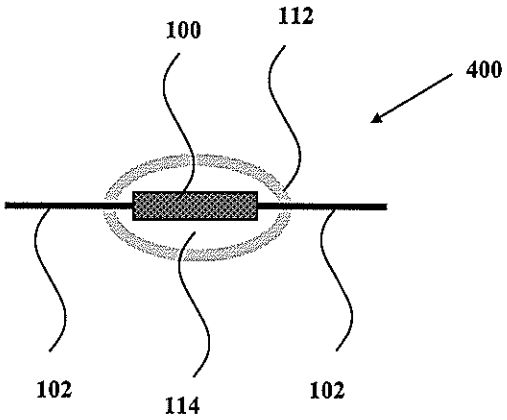


FIGURE 4B

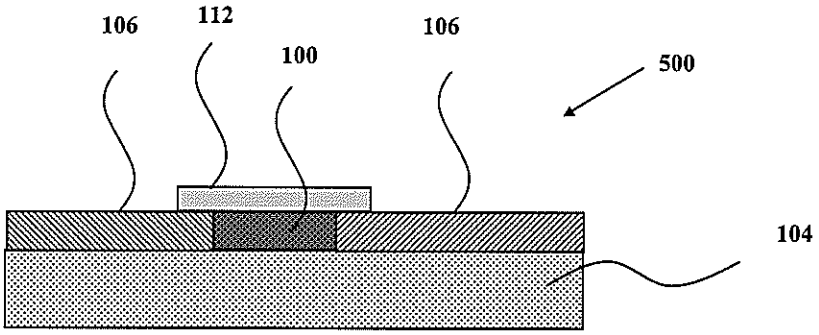


FIGURE 5

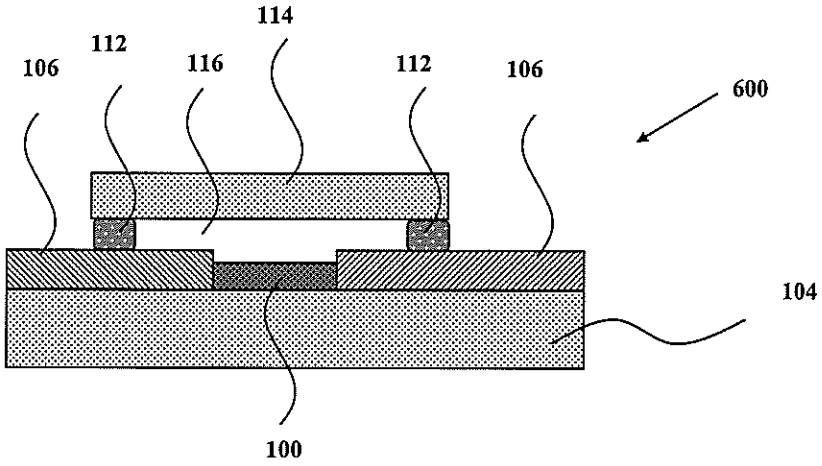


FIGURE 6

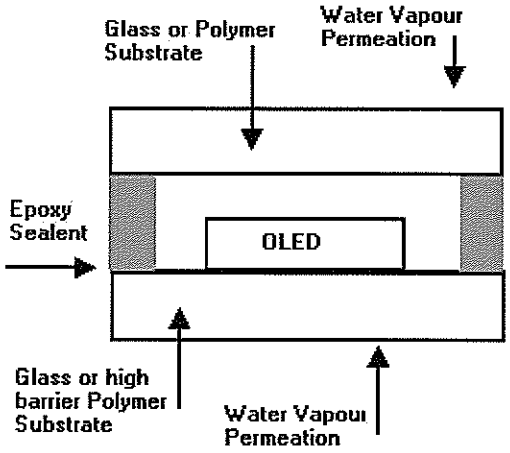


FIGURE 7A

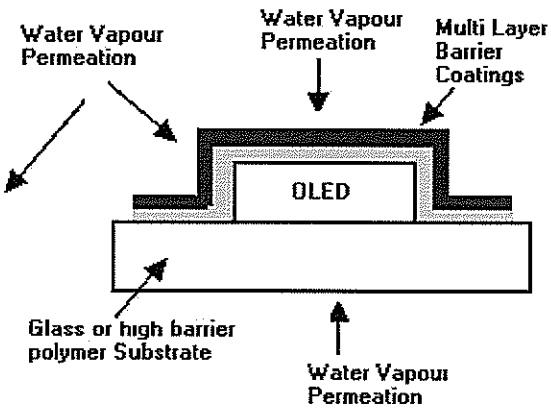


FIGURE 7B

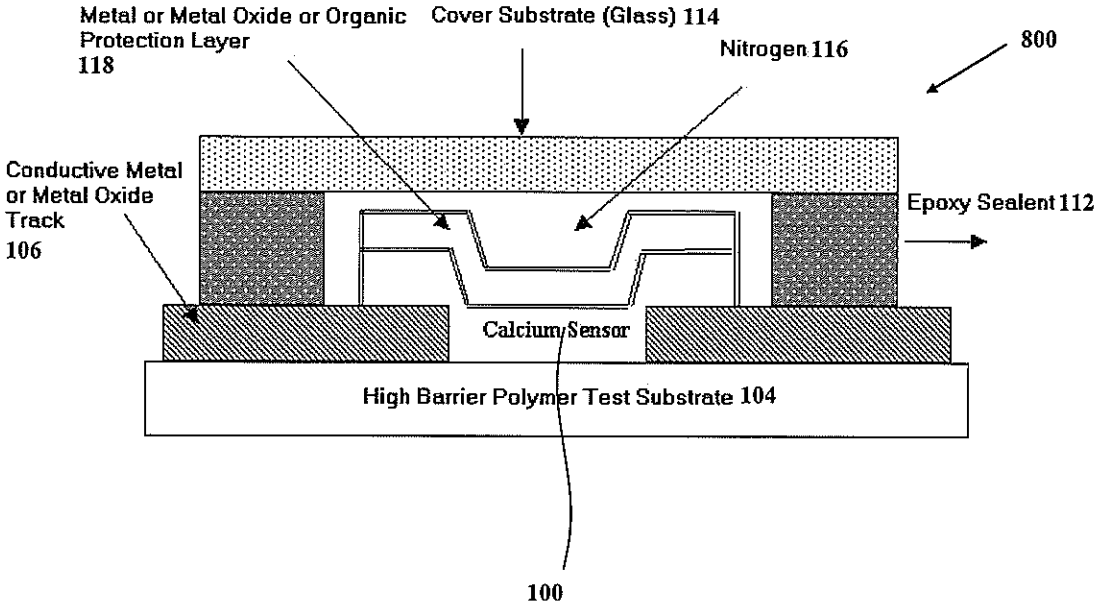

Metal or Metal Oxide or Organic Protection Layer 118
Cover Substrate (Glass) 114
Nitrogen 116
800
Conductive Metal or Metal Oxide Track 106
Epoxy Sealent 112
Calcium Sensor
High Barrier Polymer Test Substrate 104
100

FIGURE 8

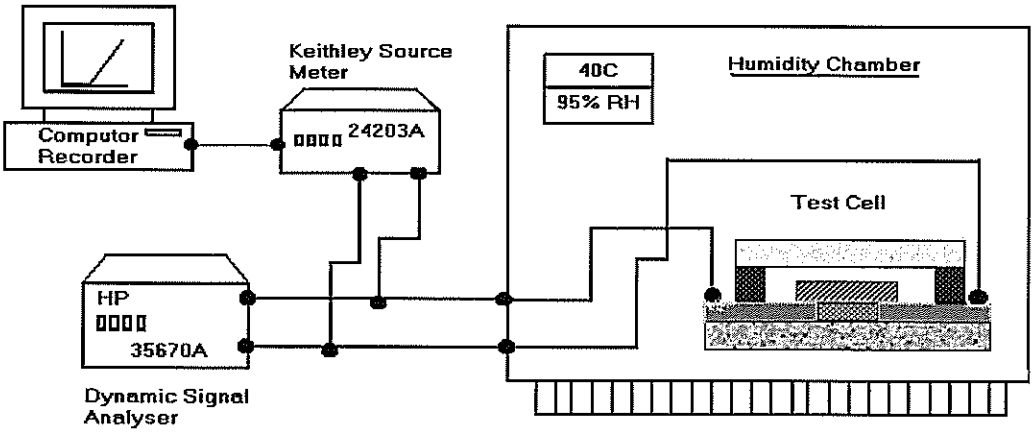


FIGURE 9

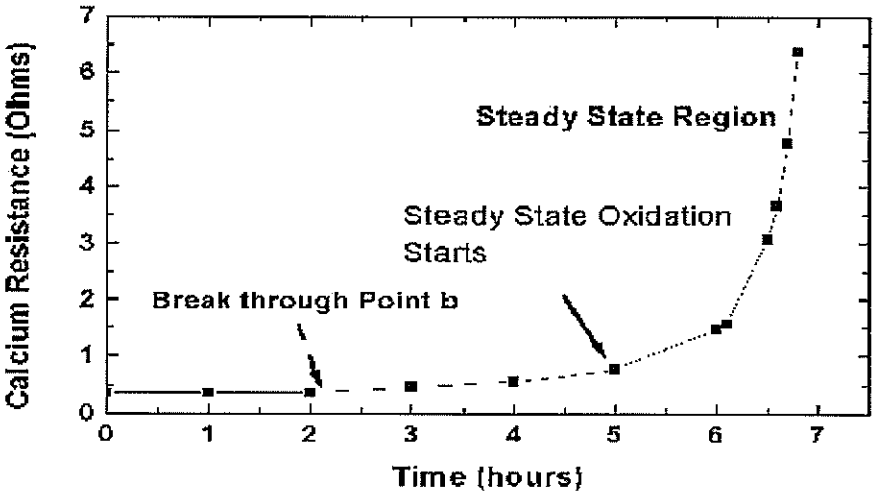


FIGURE 10A

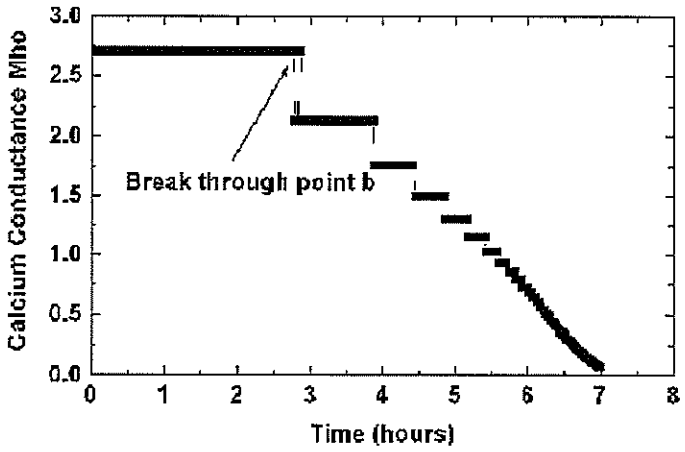


FIGURE 10B

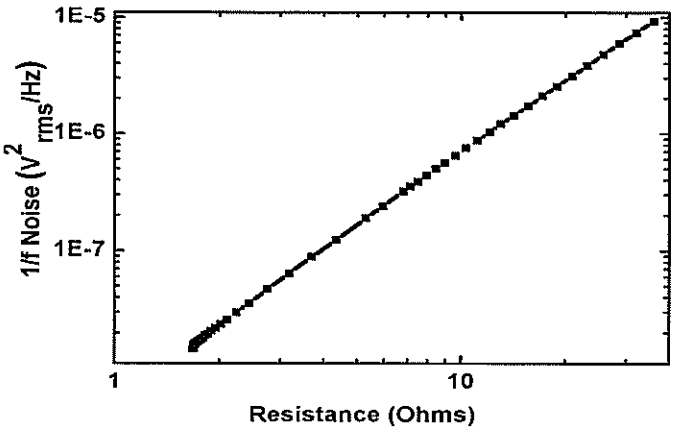
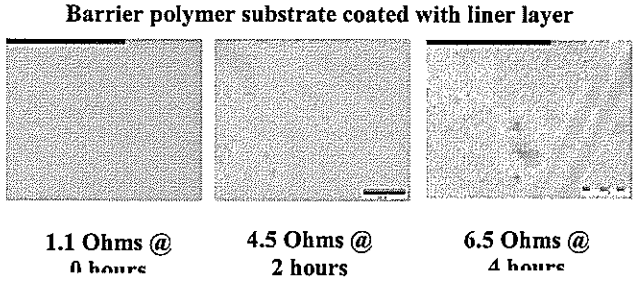
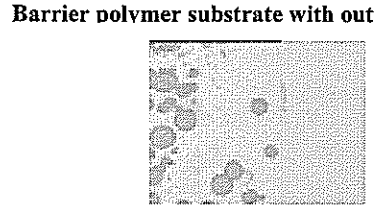


FIGURE 10C



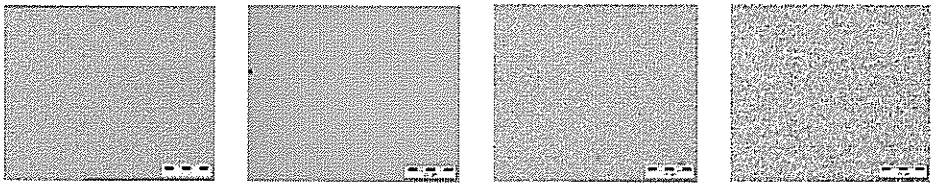
Images (10x magnification) of calcium sensor show uniform oxidation at different time intervals and resistance – Figure 4a

FIGURE 11A



Example image (10x magnification) of non-uniform oxidation – Figure 4b

FIGURE 11B



1.13 ohms @ 0 hour | 1.15 ohms @ 120 hours | 3.9 ohms @ 168 hours | 88 ohms @ 216 hours

Calcium sensor oxidation pattern – shows uniform oxidation at different time intervals and resistance – Figure 6

FIGURE 12A

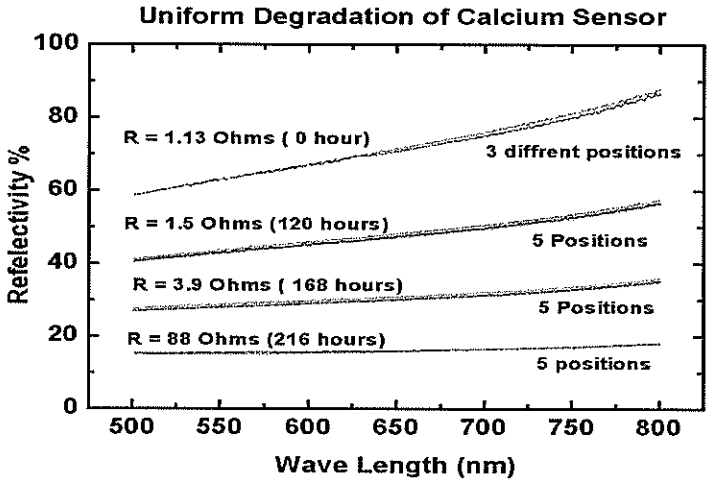


FIGURE 12B

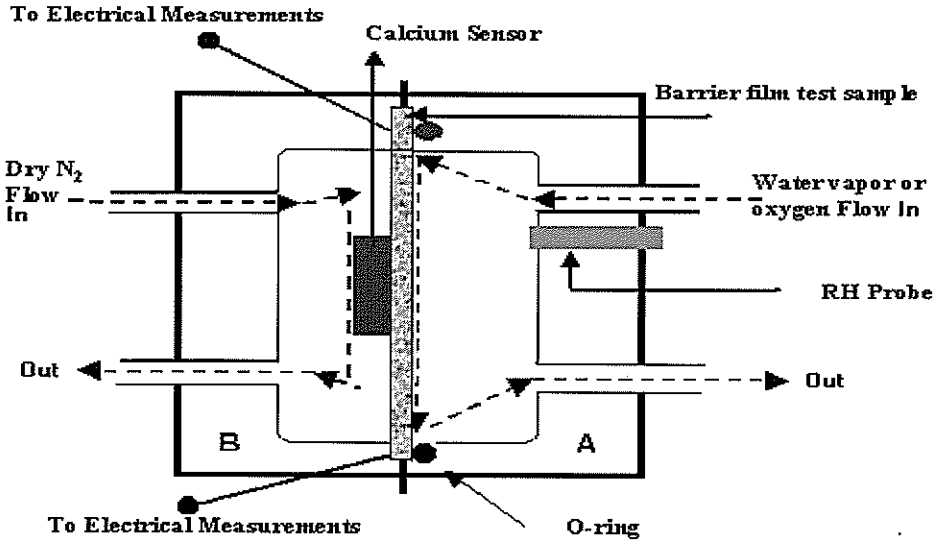


FIGURE 13