

Title of the Invention: Controlled Potential Electrolysis Gas Sensor

ABSTRACT

5 A controlled potential electrolysis gas sensor including, as gas
electrodes 10 for detecting gas, a working electrode for electrochemically
reacting gas to be detected, a counter electrode with respect to the
working electrode, and a reference electrode for controlling potential of
the working electrode, the gas electrodes 10 being disposed to face an
10 electrolysis solution accommodating portion of an electrolysis tank
accommodating electrolytic solution 20. Each electrode 10 includes a
noble metal catalyst layer 50. On the noble metal catalyst layer 50 of at
least one of the working electrode and the reference electrode, there is
formed a polymer layer 60 having ion conductivity and water
15 permeability.

Figure 3