

V. ABSTRACT

TITLE OF INVENTION: Electro-deposition of catalyst on electrodes.

5.1 A mixture of finely ground carbon powder, Teflon ammonium bicarbonate, glycerol and water are mixed and sprayed on to carbon cloth, and dried. Electrodes are cut and mounted on a frame, inserted into a holder, located in the acid electrolyte bath.

(See Figs 1,2 & 3 in composite drawing)

5.2 The deposition of platinum from a foil anode is achieved by passing a pulsed dc current. Layer depth is varied by adjustments to pulsing with and pulsing rate of the dc current.

5.3 The electrode is then attached to a membrane by hot pressing to create a bond, which then makes up the MEA, for use in a Fuel Cell.



162162



G00001