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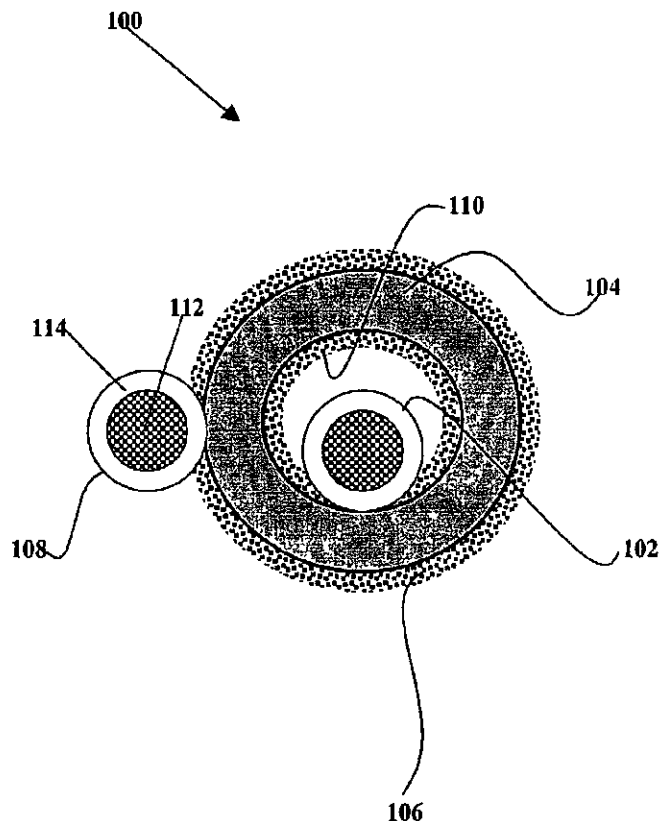
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(54) Title: **MICROCELL ELECTROCHEMICAL DEVICES AND ASSEMBLIES WITH CORROSION-RESISTANT CURRENT COLLECTORS, AND METHOD OF MAKING THE SAME**



(57) Abstract: A fibrous microcell structure comprising: (1) an inner electrode, (2) a hollow fibrous membrane separator in contact with the inner electrode, (3) an electrolyte embedded in the hollow fibrous membrane separator, and (4) an outer electrode, wherein at least one of the inner and outer electrodes comprises a metal clad composite having two or more metal layers bonded together by solid-phase bonding. Preferably, such fibrous microcell structure is a fuel cell that comprises inner current collector, an inner catalyst layer, a hollow fibrous membrane separator in contact with the inner catalyst layer and the inner current collector, an electrolyte embedded in the hollow fibrous membrane separator, an outer catalyst layer, and an outer current collector.