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(54) Title: CARD WITH EMBEDDED IC AND ELECTROCHEMICAL CELL

(57) Abstract: An IC card includes at least one plastic layer, a battery and at least one electronic device embedded in the plastic layer. The battery is electrically connected to the electronic device for providing power to the device. The battery includes an anode, a cathode, and at least one polymer matrix electrolyte (PME) separator disposed between the anode and the cathode. The PME separator includes a polyimide, at least one lithium salt and at least one solvent all intermixed. The PME is substantially optically clear and stable against high temperature and pressure, such as processing conditions typically used in hot lamination processing or injection molding.



WO 2004/102618 A2