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(54) Title: MAGNETOHYDRODYNAMIC ELECTRIC POWER GENERATOR

(57) Abstract: A power generator that provides at least one of electrical and thermal power comprising (i) at least one reaction cell for the catalysis of atomic hydrogen to form hydrinos identifiable by unique analytical and spectroscopic signatures, (ii) a reaction mixture comprising at least two components chosen from: a source of H₂O catalyst or H₂O catalyst; a source of atomic hydrogen or atomic hydrogen; reactants to form the source of H₂O catalyst or H₂O catalyst and a source of atomic hydrogen or atomic hydrogen; and a molten metal to cause the reaction mixture to be highly conductive, (iii) a molten metal injection system comprising at least one pump such as an electromagnetic pump that provides a molten metal stream and at least one reservoir that receives the molten metal stream, (iv) an ignition system comprising an electrical power source that provides low-voltage, high-current electrical energy to the at least one steam of molten metal to ignite a plasma to initiate rapid kinetics of the hydrino reaction and an energy gain due to forming hydrinos, (v) a source of H₂ and O₂ supplied to the plasma, (vi) a molten metal recovery system, and (vii) a power converter capable of (a) converting the high-power light output from a blackbody radiator of the cell into electricity using concentrator thermophotovoltaic cells or (b) converting the energetic plasma into electricity using a magnetohydrodynamic converter.

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