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(71) Applicant: PHINERGY LTD. [IL/IL]; 2 Yodfat St. P.O.B 1290, 7129106 Lod (IL).

(72) Inventors: YAKUPOV, Ilya; 28 Hasavyon Street, 7655817 Rehovot (IL). YADGAR, Avraham; 16 Hazamir Street, 5550716 Kiryat Ono (IL). DANINO, Aviel; 14 Klil Hahoresht, 1176469 Beit She'an (IL).

(74) Agent: BARKAI, Yosi et al.; PEARL COHEN ZEDEK LATZER BARATZ, P.O. Box 7198, 6107121 Tel Aviv (IL).

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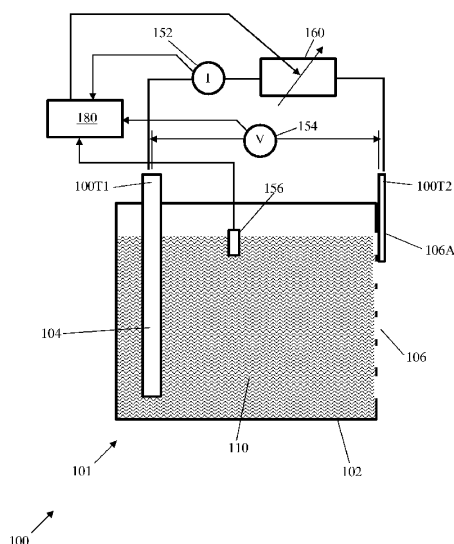


FIG. 8

(57) Abstract: A method and system for creating low corrosion passivation layer on an anode in a metal-air cell comprise asserting high negative potential and low drawn current density on the cell after its operational parameters have stabilized after the cell has been powered-on. As a result the H₂ evolution rate momentarily raises and then drops sharply, thereby causing the creation of a passivation layer on the face of the anode.

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