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(54) Title: METAL-AIR BATTERY

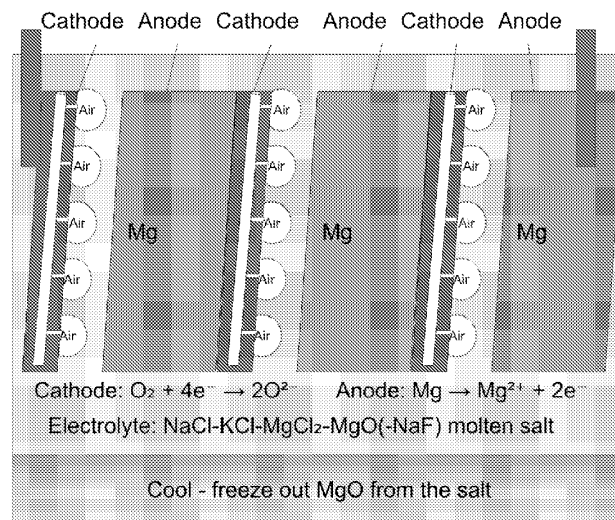


Figure 2

(57) Abstract: A metal-air battery and methods for generating electricity in a metal-air battery are described herein. The battery and the method includes heating an anhydrous salt to obtain a molten salt electrolyte; contacting the molten salt electrolyte to at least one cathode communicating with air; reducing air at the cathode to obtain oxygen ions for diffusing through the molten salt electrolyte; oxidizing at least one metal anode by the oxygen ions in the electrolyte thereby generating electricity and forming a metal anode oxide; and cooling at least one section of the metal-air battery for precipitating the metal anode oxide.

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