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(54) Title: ELECTROCHEMICAL METAL DEPOSITION SYSTEM AND METHOD

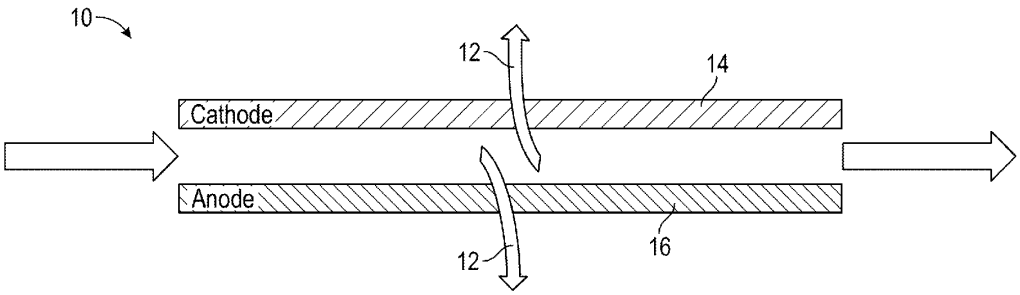


FIG. 1

(57) Abstract: An electrochemical deposition apparatus and method for the selective recovery of metal. The electrochemical deposition apparatus comprises a porous cathodic material, an anode, an inter-electrode region formed by the anode and cathode, and a gas release channel. The method may comprise passing a solution comprising a metal into a cavity, changing an oxidation state of a metal, and selectively depositing the metal onto a porous cathodic material. The electrochemical deposition apparatus may recover metal from metal feed in the form of metal hydroxides. The recovered metal may be from any source including, but not limited to, minerals, electronic waste, and black mass.

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