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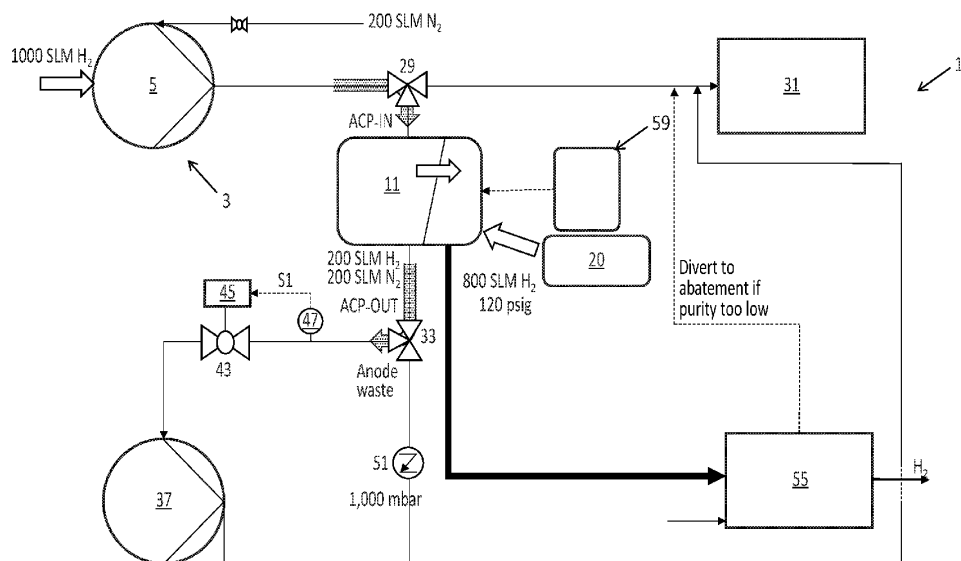


FIG. 1

(57) Abstract: HYDROGEN RECOVERY SYSTEM AND METHOD Aspects of the present invention relate to hydrogen recovery system (1) for extracting hydrogen from process gases. The hydrogen recovery system (1) may include an electrochemical pump (11) for extracting at least some of the hydrogen occurring in the process gases. The electrochemical pump (11) has an anodic compartment (13) having at least one anode (14), a cathodic compartment (15) having at least one cathode (16), and a membrane (17) disposed between the anodic compartment (13) and the cathodic compartment (15). A controller (59) is provided for controlling the electric current supplied to the electrochemical pump (11). The anodic compartment (13) has an anodic compartment inlet (23) for introducing the process gases into the anodic compartment (13); and an anodic compartment outlet (25) for discharging a waste gas from the anodic compartment (13). The cathodic compartment (15) has a cathodic compartment outlet (27) for discharging hydrogen extracted from the process gases.

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