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(54) Title: METHOD AND CONTROL SYSTEM FOR MODULAR ELECTROLYSIS CELL ARRANGEMENT

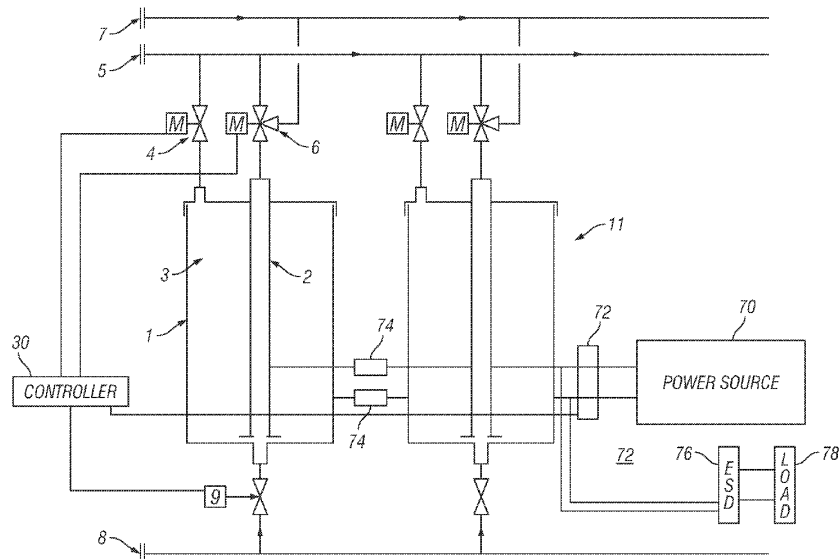


FIG. 4

(57) Abstract: A control system for operating a modular arrangement of electrolysis cells under variable input voltage conditions, such as those from renewable energy sources, to optimize operation by reducing under and over potential of cells. Energy supply and electrolyte flow to cells or groups of cells is interrupted or resumed in response to available electrical potential and the optimal electrical potential required by active cells.

[Continued on next page]

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