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(54) **STABILIZED VANADIUM ELECTROLYTE SOLUTIONS FOR ALL-VANADIUM REDOX CELLS AND BATTERIES**

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(58) **Field of Search** 429/204, 19

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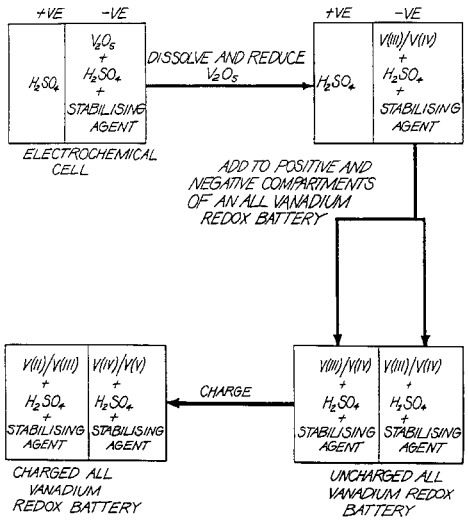
(57) **ABSTRACT**

A stabilized vanadium electrolyte solution for use in an all-vanadium redox cell or battery, the stabilized electrolyte solution comprising vanadium redox ions, an electrolyte and a stabilizing agent, wherein precipitation of vanadium redox ions from the electrolyte solution is prevented or reduced by the stabilizing agent when precipitation of the vanadium redox ions would otherwise occur and wherein the stabilizing agent is present in the electrolyte solution at a concentration of from 0.05 to 20% mol/mol of stabilizing agent to vanadium redox ions.

21 Claims, 24 Drawing Sheets