

Title (en)

ELECTROLYTIC GENERATION OF MANGANESE (III) IONS IN STRONG SULFURIC ACID

Title (de)

ELEKTROLYTISCHE HERSTELLUNG VON MANGAN (III)-IONEN IN KONZENTRIERTER SCHWEFELSÄURE

Title (fr)

GÉNÉRATION ÉLECTROLYTIQUE D'IONS DE MANGANÈSE (III) DANS L'ACIDE SULFURIQUE FORT

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2014077957A1] An electrolytic cell and a method of electrochemical oxidation of manganese (II) ions to manganese(III) ions in the electrolytic cell are described. The electrolytic cell comprises (1) an electrolyte solution of manganese(II) ions in a solution of 9 to 15 molar sulfuric acid; (2) a cathode immersed in the electrolyte solution; and (3) an anode immersed in the electrolyte solution and spaced apart from the cathode. Various anode materials are described including vitreous carbon, reticulated vitreous carbon, and woven carbon fibers.

IPC 8 full level

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