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Marsden et al.

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(54) **PROCESS FOR RECOVERY OF COPPER FROM COPPER-BEARING MATERIAL USING PRESSURE LEACHING, DIRECT ELECTROWINNING AND SOLVENT/SOLUTION EXTRACTION**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(58) **Field of Classification Search** 205/574, 205/575, 576, 580, 584

See application file for complete search history.

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(57) **ABSTRACT**

The present invention relates generally to a process for recovering copper and/or other metal values from a metal-bearing ore, concentrate, or other metal-bearing material using pressure leaching and direct electrowinning. More particularly, the present invention relates to a substantially acid-autogenous process for recovering copper from chalcopyrite-containing ore using pressure leaching and direct electrowinning in combination with a leaching, solvent/solution extraction and electrowinning operation.

20 Claims, 4 Drawing Sheets