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(54) **SYSTEM FOR DIRECT ELECTROWINNING OF COPPER**

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(52) **U.S. Cl.** ..... **266/171; 266/101; 205/367**

(58) **Field of Search** ..... **266/171, 101; 75/744; 205/367**

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(57) **ABSTRACT**

A system and process for recovering copper from a copper-containing ore, concentrate, or other copper-bearing material to produce high quality cathode copper from a leach solution without the use of copper solvent extraction techniques or apparatus. A process for recovering copper from a copper-containing ore generally includes the steps of providing a feed stream containing comminuted copper-containing ore, concentrate, or other copper-bearing material, leaching the feed stream to yield a copper-containing solution, conditioning the copper-containing solution through one or more physical or chemical conditioning steps, and electrowinning copper directly from the copper-containing solution, without subjecting the copper-containing solution to solvent extraction.

**14 Claims, 2 Drawing Sheets**

