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(54) Title: ADDITIVE-FREE CU ELECTROWINNING

(57) Abstract: The invention concerns an electrowinning process for the recovery of Cu from leaching solutions, in particular from solutions obtained after acidic leaching of lithium-ion batteries or their waste. Electrowinning is performed on an aqueous sulfuric acid solution at a temperature of 50 to 70 °C, wherein the concentration of sulfuric acid is 20 to 100 g/L, wherein the concentration of Cu is at least 2 g/L and at most 15 g/L, and wherein the aqueous acidic solution is free of organic additives. Means for agitating the electrolyte are applied, and a current density of 100 to 210 A/m² is used. These operating conditions ensure that copper is recovered on flat cathodes as a coherent and uniform deposit.



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