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(54) **CONTROLLED COPPER LEACH RECOVERY CIRCUIT**

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See application file for complete search history.

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(57) **ABSTRACT**

The present invention relates generally to a process for controlled leaching and sequential recovery of two or more metals from metal-bearing materials. In one exemplary embodiment, recovery of metals from a leached metal-bearing material is controlled and improved by providing a high grade pregnant leach solution ("HGPLS") and a low grade pregnant leach solution ("LGPLS") to a single solution extraction plant comprising at least two solution extractor units, at least two stripping units, and, optionally, at least one wash stage.

25 Claims, 4 Drawing Sheets