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Morgan et al.

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(54) **SYSTEM AND METHOD INCLUDING MULTI-CIRCUIT SOLUTION EXTRACTION FOR RECOVERY OF METAL VALUES FROM METAL-BEARING MATERIALS**

(75) Inventors: **Jason M Morgan**, Morenci, AZ (US); **Barbara J Savage**, Silver City, NM (US); **David G Meadows**, Phoenix, AZ (US); **Wayne W Hazen**, Lakewood, CO (US)

(73) Assignee: **FREEMPORT MINERALS CORPORATION**, Phoenix, AZ (US)

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See application file for complete search history.

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Primary Examiner — George Wyszomierski
Assistant Examiner — Tima M McGuthry Banks
(74) *Attorney, Agent, or Firm* — Snell & Wilmer L.L.P.

(57) **ABSTRACT**

The present disclosure relates to a metal recovery process comprising a solvent extraction process. In an exemplary embodiment, the solution extraction system comprises a plant with a first and second circuit. A high-grade pregnant leach solution (“HGPLS”) is provided to the first and second circuit, and a low-grade pregnant leach solution (“LGPLS”) is provided to the second circuit. The first circuit produces a rich electrolyte, which can be forwarded to a primary metal recovery, and a low-grade raffinate, which can be forwarded to a secondary metal recovery process. The second circuit produces a rich electrolyte, which can also be forwarded to the primary metal recovery process. The first and second circuits are in fluid communication with each other.

9 Claims, 5 Drawing Sheets

