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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**

(58) **Field of Classification Search**
CPC C22B 3/0005
See application file for complete search history.

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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 260 days.

This patent is subject to a terminal disclaimer.

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(65) **Prior Publication Data**
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(57) **ABSTRACT**

Related U.S. Application Data

(62) Division of application No. 13/331,717, filed on Dec. 20, 2011, now Pat. No. 9,169,533.

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.

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CPC **C22B 3/02** (2013.01); **B01D 11/028** (2013.01); **B01D 11/0488** (2013.01);
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4 Claims, 5 Drawing Sheets

