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Robertson et al.

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(54) **SYSTEMS AND METHODS FOR IMPROVED METAL RECOVERY USING AMMONIA LEACHING**

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See application file for complete search history.

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(52) **U.S. Cl.**
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(57) **ABSTRACT**

Systems and methods for basic leaching are provided. In various embodiments, a method is provided comprising leaching a slurry comprising a copper bearing material and a leach medium comprising ammonia and ammonium carbonate, adding copper powder to the slurry, separating the slurry into a pregnant leach solution and solids, and performing a solvent extraction on the pregnant leach solution to produce an loaded aqueous stream.

(58) **Field of Classification Search**
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10 Claims, 8 Drawing Sheets

