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United States Patent [19] Huch

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- [54] **METHOD FOR ACHIEVING ENHANCED COPPER FLOTATION CONCENTRATE GRADE BY OXIDATION AND FLOTATION**
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- [52] U.S. Cl. **209/167; 209/166**
- [58] Field of Search **209/166, 167, 901; 252/61**

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[57] ABSTRACT

The present invention involves a method for separating copper sulfide from rimmed iron sulfide by flotation. Prior to flotation, a slurry containing the sulfides is oxidized and conditioned to achieve a pH greater than pH 9. Thereafter, the slurry is subjected to a froth flotation process by which a copper sulfide, such as chalcopyrite, concentrate is recovered.

20 Claims, 1 Drawing Sheet

