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Taube

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(54) **METHODS AND SYSTEMS FOR RECOVERING AMMONIA**

(56) **References Cited**

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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 0 days.

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(65) **Prior Publication Data**

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(57) **ABSTRACT**

Related U.S. Application Data

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A method of removing ammonia from a gas stream may involve the steps of: Providing a primary slurry composition of a molybdic acid at a first pH; providing a secondary slurry composition of a molybdic acid at a second pH, the second pH being numerically lower than the first pH; atomizing the primary slurry composition in the presence of the gas stream to produce a partially processed gas stream, quantities of ammonia in the gas stream combining with the molybdic acid in the primary slurry composition to form a further concentrated primary ammoniated slurry composition; and atomizing the secondary slurry composition in the presence of the partially processed gas stream to produce a processed gas stream, additional quantities of ammonia in the partially processed gas stream combining with the molybdic acid in the secondary slurry composition to form a further concentrated secondary ammoniated slurry composition.

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(58) **Field of Classification Search**

None
See application file for complete search history.

25 Claims, 3 Drawing Sheets

