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Taube

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(54) **SYSTEMS FOR RECOVERING AMMONIA**

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(58) **Field of Classification Search**

CPC B01D 2251/50; B01D 53/58; B01D 53/78
See application file for complete search history.

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(57) **ABSTRACT**

Apparatus for removing ammonia from a gas stream includes primary and secondary scrubbers each of which includes a gas inlet, a gas outlet, and a slurry atomizer. The gas inlet of the primary scrubber is operatively connected to a gas stream having ammonia contained therein. A primary slurry feed system operatively connected to the slurry atomizer of the primary scrubber feeds to the slurry atomizer a primary slurry composition of a molybdc acid at a pH level. The gas inlet of the secondary scrubber is operatively connected to the gas outlet of the primary scrubber. A secondary slurry feed system operatively connected to a slurry atomizer of the secondary scrubber feeds to the slurry atomizer a secondary slurry composition of a molybdc acid at pH level. The pH level of the secondary slurry composition is lower than the pH level of the primary slurry composition.

16 Claims, 3 Drawing Sheets

