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[54] **METHOD FOR PRODUCING STABILIZED WET PROCESS PHOSPHORIC ACID WITH LOW CONTENT OF MAGNESIUM AND ALUMINUM**

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[52] **U.S. Cl.** ..... **423/321 R**; 423/158; 423/472

[58] **Field of Search** ..... 423/321 R, 321 S, 320, 423/158, 472

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[57] **ABSTRACT**

Wet process phosphoric acid, stabilized with respect to the precipitation of solids upon aging, and containing significantly reduced levels of magnesium and aluminum, is prepared by the controlled addition of fluosilicic acid to wet process filter grade phosphoric acid followed by a series of evaporation, crystallization and centrifugation steps. Sufficient fluosilicic acid is added to provide a fluorine to magnesium ratio of about 2.5:1 to 10.1:1, preferably 5:1. The final product, which has a P_2O_5 content of at least 56 percent, contains low amounts of magnesium and aluminum, and exhibits low solids precipitation characteristics during shipment, storage and eventual processing into end products such a fertilizers.

20 Claims, 1 Drawing Figure