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[54] PROCESS FOR PREPARING AMMONIUM DINITRAMIDE

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[58] Field of Search 269/3.1, 3.5; 149/45, 149/61, 112, 122, 109.6

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[57] ABSTRACT

A process for preparing ammonium dinitramide by:

(1) nitrating either ethyl carbamate or methyl carbamate to form the corresponding mononitrate compound, ethyl N-nitrocarbamate or methyl N-nitrocarbamate;

(2) reacting the N-nitrocarbamate with ammonia under anhydrous conditions to produce the corresponding ammonium salt, ammonium ethyl N-nitrocarbamate or ammonium methyl N-nitrocarbamate;

(3) nitrating the ammonium salt and then treating the reaction mixture with ammonia to produce ammonium dinitramide, ammonium nitrate, and regenerate the original ethyl carbamate or methyl carbamate compound.

8 Claims, No Drawings