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(71) Applicant: MONSANTO COMPANY [US/US]; 800 North Lindbergh Boulevard, St. Louis, MO 63167 (US).

(72) Inventor: KRAMER, Richard, M.; 15238 Kingsman Circle, Chesterfield, MO 63017 (US).

(74) Agent: FINKELSTEIN, Ira, D.; Howrey Simon Arnold & White, LLP, 750 Bering Drive, Houston, TX 77057-2198 (US).

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(54) Title: PROCESS FOR MAKING AMMONIUM GLYPHOSATE POWDER

(57) Abstract: A process is provided for preparing ammonium glyphosate powder suitable for downstream processing by extrusion to make a granular formulation comprising ammonium glyphosate and surfactant. The process comprises (a) mixing (i) solid particulate glyphosate acid, (ii) water in an amount of about 0.5 to about 3 parts by weight per part by weight of glyphosate acid, and (iii) a base that supplies ammonium cations, in an amount of about 0.8 to about 1.25 mole equivalents of ammonia per mole of glyphosate acid, to form an aqueous reaction medium; (b) allowing the glyphosate acid to react with the base in the reaction medium to form a reaction product comprising a concentrated aqueous solution of ammonium glyphosate; (c) drying the reaction product, for example with a drum dryer, to recover a particulate solid; and (d) accelerating the particulate solid in a turbulent high-velocity gas stream, for example in a jet mill, to form by particle-particle attrition an ammonium glyphosate powder having a mean particle size of about 5 to about 20 μm .