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- (54) **COMPOSITION AND METHOD FOR PREPARING GRANULAR AMINO ACID CHELATES AND COMPLEXES**
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- (58) Field of Search **556/1, 50, 63, 556/116, 134, 148; 514/6, 778, 781**

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(57) **ABSTRACT**

Compositions and methods of preparing amino acid chelates and complexes are disclosed and described. Specifically, by (a) blending hydrated metal sulfate salts, amino acid ligands, and reaction modifiers; (b) confining the particulate blend in an enclosed environment; and (c) applying heat to the particulate blend in the enclosed environment causing the waters of hydration of the metal sulfate salt to be released into the enclosed environment causing a reaction resulting in the formation of a granular amino acid chelate or complex by effecting the reaction between functional electron rich groups of the amino acid ligand and a metal ion of the metal sulfate salt. The waters of hydration serve to provide the water necessary to enable a bonding reaction to take place between the electron rich functional groups of the amino acid ligand and the metal ion of the hydrated metal sulfate salt.

36 Claims, No Drawings