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(54) Title: METHOD FOR FORMING INSOLUBLE SOLUTE ADDUCTS USING AN ACIDIC MEDIUM

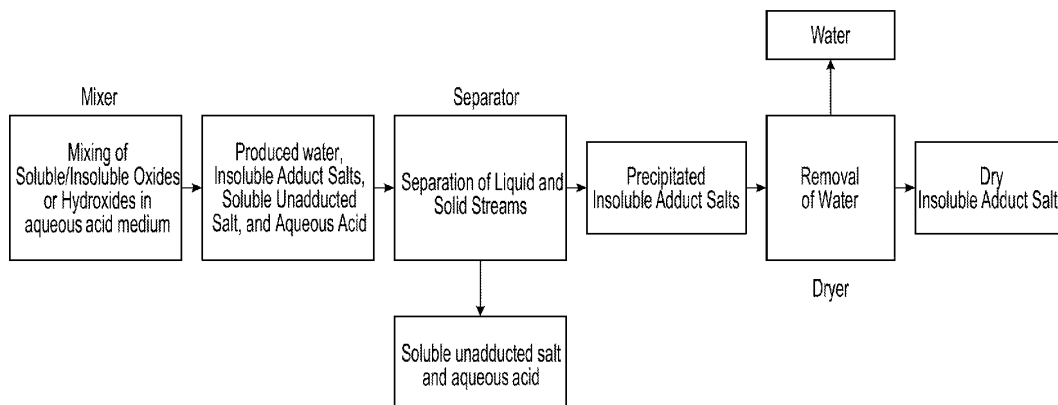


FIG. 1

(57) Abstract: A method for forming an insoluble adduct using an acidic medium is provided. A chemical process utilizes acidic media to change the solubility behavior of metal solutes. The method can utilize Group 1 soluble alkali metals but can also be extended to any other soluble salts discussed under the solubility rules. The insoluble salts can be Group 2 alkaline earth metals or other insoluble salts. The insoluble adduct can have the designation XYZ where X is a soluble metal from a metal hydroxide or a metal oxide, Y is an insoluble metal from an insoluble metal hydroxide or an insoluble metal oxide, and Z is the acid ion from an aqueous acidic media.

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