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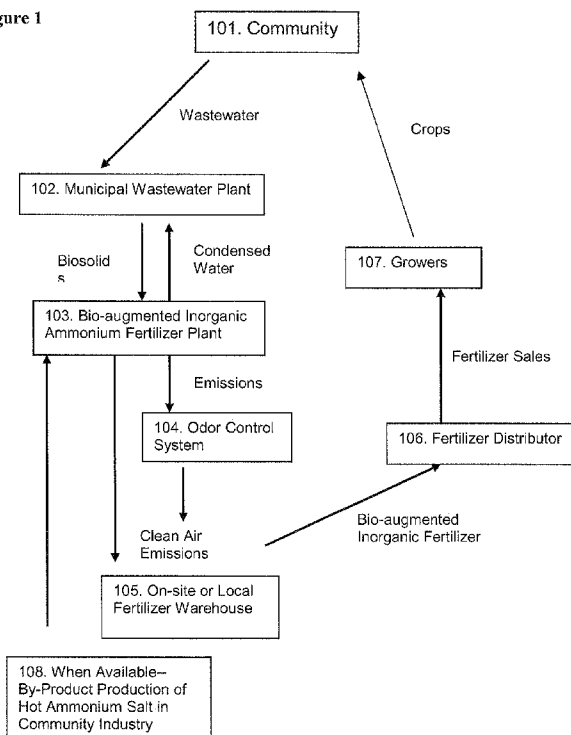
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(54) Title: PROCESS FOR TREATING SLUDGE AND MANUFACTURING BIOORGANICALLY-AUGMENTED HIGH NITROGEN-CONTAINING INORGANIC FERTILIZER

Figure 1



(57) Abstract: The invention describes a method for treating sludge to produce high nitrogen organically-augmented inorganic fertilizer that can compete with traditional The method involves conditioning dewatered biosolids or organic sludge, and treating with an oxidizer to reduce odorant effects and an acid This mix is then interacted with concentrated sulfuric and or phosphoric acids and an ammonia source or alternatively a hot or molten melt or salt of ammonium sulfate/phosphate to form a fertilizer mix under controlled temperature, pressure and retention times This invention can also be an add-on to commercial production of ammonium salts The fertilizer produced by the present invention contains more than 8 wt % nitrogen and preferably 15 wt % nitrogen The invention is tailored for biosolids production in individual municipal waste treatment plants by keeping the fertilizer manufacturing plants of the present invention small with a minimization of logistics and liability



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