

Title (en)

METHOD AND APPARATUS FOR PROCESSING WET MATERIAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERARBEITUNG VON NASSEM MATERIAL

Title (fr)

PROCEDE ET DISPOSITIF POUR LE TRAITEMENT DE MATERIAU HUMIDE

Publication

EP 1432629 A2 20040630 (EN)

Application

EP 02744531 A 20020621

Priority

- US 0219763 W 20020621
- US 96568801 A 20010927

Abstract (en)

[origin: WO03026768A2] A wet material treatment apparatus includes an inlet hopper for introducing the wet material into the apparatus. The hopper feeds the wet material into an injector auger that physically directs the wet material into a high velocity air stream produced by a blower thereby directing the flow of the wet material through the apparatus. The wet material moves from the injector auger into a cyclone that separates the wet material through specific gravity and desiccation into a substantially liquid and a substantially solid portion. The substantially solid portion is discharged through a first outlet in the cyclone to a wet scrubber, while the substantially liquid portion of the wet material is discharged through a second outlet. The apparatus can be mounted to a trailer for mobile transportation, and can include two cyclones operating in series. The wet material processed include, without limitation, biosolids, sludges, agricultural/animal wastes, industrial wastes, coal fines, coal sludge, mineral sludges, and other similarly types of wet materials.

[origin: WO03026768A2] A wet material treatment apparatus 10 includes a hopper 18 that feeds material into an injector auger 16 that directs the material into an air stream produced by a blower 14. The material moves from the injector auger 16 into a cyclone 22 that separates the material into a liquid and a solid portions. The solid portion is discharged to a scrubber 34, while the liquid portion is discharged through a second outlet. The apparatus 10 can be mounted to a trailer can include two cyclones 22/24 operating in series. Materials processed include biosolids, sludges, agricultural/animal wastes, industrial wastes, coal fines, coal sludge, mineral sludges.

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