

Title (en)
METHOD AND DEVICE FOR PRODUCING FERTILIZER SHAPED BODIES FROM FERMENTATION REMNANTS FROM BIOGAS PLANTS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON DUNGEMITTELFORMKÖRPERN AUS FERMENTATIONSGARRESTEN VON BIOGASANLAGEN.

Title (fr)
PROCEDE ET DISPOSITIF POUR REALISER DES ELEMENTS MOULES DE FERTILISANT A PARTIR DE RESIDUS DE FERMENTATION D'INSTALLATIONS AU BIOGAZ

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Application
EP 06792386 A 20061006

Priority
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Abstract (en)
[origin: WO2007039311A1] The inventive method for producing fertilizer shaped bodies from fermentation remnants obtained by the generation of power by fermentation in a biogas plant includes the following steps: preparing a fermentation remnant having a first nutrient content; b) separating the fermentation remnant into a solid portion and a liquid portion; c) drying the solid portion; d) increasing the nutrient content of the solid portion, and; e) converting the solid portion into fertilizer shaped bodies. The inventive method and device advantageously permit a utilization of fermentation remnants in biogas plants that is as sustainable as possible. The inventively produced fertilizer shaped body advantageously releases the contained nutrients more slowly than correspondingly unprocessed deposited fermentation remnants whereby advantageously reducing the over-fertilization of fields and the entering of nutrients, particularly nitrites, nitrates and phosphates into the groundwater. The utilization of the waste heat of a heat engine operated with the generated biogas can be advantageously used for drying the solid portion and for heating during subsequent processing of the fermentation remnants. An advantageous embodiment is provided for purifying the resulting effluent by means of evaporation and a subsequent reverse osmosis.

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