Title (en)

METHOD OF DRYING SLUDGE AND APPARATUS FOR CARRYING OUT THE METHOD

Title (de)

VERFAHREN ZUR TROCKNUNG VON SCHLÄMMEN UND VORRICHTUNG ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)

PROCÉDÉ DE SÉCHAGE DES BOUES ET DISPOSITIF PERMETTANT LA MISE EN OEUVRE DU PROCÉDÉ

Publication

EP 1847791 B1 20110907 (FR)

Application

EP 07290491 A 20070420

Priority

FR 0603551 A 20060421

Abstract (en)

[origin: EP1847791A1] The method involves loading sludge (5) inside a tub spaced from walls of an enclosure (1) by a material inlet (8). Heated vapor is injected into the sludge by using a mixer (3) operating closer to a tub`s wall that is spaced with respect to a microwave source. The sludge is heated to the core by emission of microwaves (23) of frequencies comprised between 400 and 2450 mega Hertz in a direction of a tub (7). Water collected by condensation on walls of the enclosure is evacuated, via small openings, towards the bottom of the enclosure by using a valve (6) communicating with the exterior. An independent claim is also included for a device permitting to implement a method for drying sludge.

IPC 8 full level

F26B 3/347 (2006.01); **F26B 7/00** (2006.01); **F26B 11/12** (2006.01)

CPC (source: EP KR US)

F26B 3/343 (2013.01 - EP US); **F26B 3/347** (2013.01 - KR); **F26B 7/00** (2013.01 - EP KR US); **F26B 11/12** (2013.01 - EP KR US); **F26B 21/086** (2013.01 - EP US); F26B 2200/18 (2013.01 - EP US)

Cited by

ES2954372A1; WO2023198948A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1847791 A1 20071024; **EP 1847791 B1 20110907**; AT E523746 T1 20110915; AU 2007242682 A1 20071101; AU 2007242682 B2 20111222; CA 2650025 A1 20071101; CA 2650025 C 20150623; CN 101454630 A 20090610; CN 101454630 B 20121226; DK 1847791 T3 20120109; ES 2372313 T3 20120118; FR 2900224 A1 20071026; FR 2900224 B1 20080704; JP 2009534623 A 20090924; JP 4875146 B2 20120215; KR 101394623 B1 20140513; KR 20090007458 A 20090116; MA 30417 B1 20090504; MX 2008013504 A 20090223; NO 20084754 L 20081212; NZ 572340 A 20110729; PL 1847791 T3 20120330; PT 1847791 E 20111128; RU 2008142146 A 20100527; RU 2419049 C2 20110520; UA 94747 C2 20110610; US 2009229140 A1 20090917; WO 2007122328 A1 20071101; WO 2007122328 A8 20081218; ZA 200809360 B 20090729

DOCDB simple family (application)

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