

Title (en)

METHOD FOR THE PHYSICAL AND BIOLOGICAL TREATMENT OF A BIOMASS AND DEVICE FOR CARRYING OUT SAID METHOD

Title (de)

VERFAHREN ZUR PHYSIKALISCHEN UND BIOLOGISCHEN BEHANDLUNG EINER BIOMASSE UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE TRAITEMENT PHYSIQUE ET BIOLOGIQUE D'UNE BIOMASSE, ET DISPOSITIF DE MISE EN OEVRE DE CE PROCEDE.

Publication

**EP 1838425 A1 20071003 (FR)**

Application

**EP 05804712 A 20051014**

Priority

- FR 2005002560 W 20051014
- FR 0410897 A 20041015

Abstract (en)

[origin: WO2006042951A1] The invention relates to a method for physical and biological treatment of an organic effluent, whereby said effluent is decomposed by means of microorganisms in at least one biological treatment zone (1). The method is as follows a) a fraction of the biomass from said biological treatment is taken, b) a compression reservoir (5) is filled with said biomass fraction, c) the compression reservoir (5) is isolated, d) the compression reservoir (5) is subjected to a very high pressure (with or without the presence of gas) such as to destroy or damage the microorganisms in said fraction, e) the compression reservoir (5) is permitted to return to atmospheric pressure and f) said fraction treated as above is reintroduced into the biological treatment zone (1), or into one or more other zones of the biological treatment.

IPC 8 full level

**B01J 3/04** (2006.01); **C02F 3/12** (2006.01); **C02F 11/02** (2006.01); **F16J 13/02** (2006.01)

CPC (source: EP KR US)

**B01J 3/04** (2013.01 - KR); **C02F 3/12** (2013.01 - KR); **C02F 3/1221** (2013.01 - EP US); **C02F 11/02** (2013.01 - EP KR US); **F16J 13/02** (2013.01 - KR); **C02F 2301/066** (2013.01 - EP US); **C02F 2303/06** (2013.01 - EP US); **Y02W 10/10** (2015.05 - EP US); **Y02W 10/20** (2015.05 - EP US)

Citation (search report)

See references of WO 2006042951A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**FR 2876684 A1 20060421**; **FR 2876684 B1 20070309**; CN 101039745 A 20070919; CN 101039745 B 20100505; EP 1838425 A1 20071003; HK 1107679 A1 20080411; JP 2008516746 A 20080522; JP 4690416 B2 20110601; KR 20070064631 A 20070621; US 2007267347 A1 20071122; US 7491332 B2 20090217; WO 2006042951 A1 20060427

DOCDB simple family (application)

**FR 0410897 A 20041015**; CN 200580035088 A 20051014; EP 05804712 A 20051014; FR 2005002560 W 20051014; HK 07113264 A 20071205; JP 2007536226 A 20051014; KR 20077008434 A 20070413; US 57730605 A 20051014