

Title (en)

A device and a method for disintegrating liquid waste

Title (de)

Vorrichtung und Verfahren zum Zersetzen von Flüssigabfall

Title (fr)

Dispositif et procédé pour désintégrer des déchets liquides

Publication

EP 2465610 B1 20130501 (EN)

Application

EP 10461535 A 20101220

Priority

EP 10461535 A 20101220

Abstract (en)

[origin: EP2465610A1] A device for disintegrating liquid waste, comprising a waste processing chamber (100) defined by a housing (101A, 101 B) with a set of discs (103, 104, 105) rotatable with respect to each other and comprising correlated concentric protrusions (103A, 104A) and channels (103B, 104B) defining a shear gap (106) and configured to disintegrate liquid waste by cavitation during rotation, an inlet conduit (111) connected to an inlet port (110) for providing the liquid waste to an inlet chamber (108) at the central portion of the waste processing chamber (100), an outlet conduit (121) connected to an outer port (120) for collecting the disintegrated liquid waste from a collecting chamber (107) at the periphery of the waste processing chamber (100), wherein the waste processing chamber (100) is liquid-tight and comprises liquid-tight sealing (131-134) and an air vent (141) mounted in the uppermost portion of the waste processing chamber (100), and the inlet conduit (111) comprises switchable inlet valve means (112A, 113A) for providing to the inlet conduit (111) a liquid waste of a first density from a liquid waste input conduit (112) and a liquid of a second density lower than the first density from a supplementary conduit (113).

IPC 8 full level

B02C 7/06 (2006.01); **C02F 11/12** (2006.01)

CPC (source: EP)

B02C 7/06 (2013.01); **B02C 18/0092** (2013.01)

Cited by

CN109095638A; EP3253715A4; EP3467092A4; US11338300B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2465610 A1 20120620; EP 2465610 B1 20130501; PL 2465610 T3 20130930

DOCDB simple family (application)

EP 10461535 A 20101220; PL 10461535 T 20101220