

Title (en)  
INSTALLATION FOR THE AEROBIC TREATMENT OF A LIQUID, CONSISTING IN MOVING MICRO-ORGANISM-BEARING PARTICLES AND COMPRISING DECANTATION AND DEGASSING

Title (de)  
VORRICHTUNG ZUR AEROBEN BEHANDLUNG EINER FLÜSSIGKEIT, BESTEHEND AUS DER BEWEGUNG VON MIKROORGANISMEN TRAGENDEN TEILCHEN MIT DEKANTIEREN UND ENTGASEN

Title (fr)  
INSTALLATION DE TRAITEMENT AEROBIE D'UN LIQUIDE PAR MISE EN MOUVEMENT DE PARTICULES SUPPORTANT DES MICROORGANISMES AVEC DECANTATION ET DEGAZAGE

Publication  
**EP 1663877 A2 20060607 (FR)**

Application  
**EP 04786296 A 20040811**

Priority  
• FR 2004002124 W 20040811  
• FR 0309824 A 20030811

Abstract (en)  
[origin: FR2858814A1] A plant for aerobic treatment of a liquid containing organic waste uses microorganisms immobilized on mobile carrier particles, and comprises a reactor with a bubbling air injector and a lateral de-gassing section. A plant for aerobic treatment of a liquid containing organic waste uses microorganisms immobilized on mobile carrier particles, and comprises a reactor with a bubbling air injector and a lateral de-gassing section. The plant consists of a main biological reactor chamber (1) divided to form at least one immersed chamber (2), open at its two ends and having an ascending circulation, and at least one adjoining chamber (3) with a descending circulation. It has an injector (13) for air in the form of bubbles immediately adjacent to the lower end of the immersed chamber(s) (2), and at least one lateral decanting and de-gassing section (5) which has a common vertical wall (9) with the main reactor chamber, and a sloping base (12) that enables particles (14) carrying micro-organisms to fall to the bottom of the de-gassing section. The decanting section also contains at least one vertical partition (10, 10') lying parallel to the common wall and having its lower edge above the sloping base.

IPC 1-7  
**C02F 3/08**

IPC 8 full level  
**C02F 3/12** (2006.01); **C02F 3/22** (2006.01); **C02F 1/00** (2006.01)

CPC (source: EP)  
**C02F 3/085** (2013.01); **C02F 3/22** (2013.01); **C02F 2001/007** (2013.01); **Y02W 10/10** (2015.05)

Citation (search report)  
See references of WO 2005016834A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2858814 A1 20050218; FR 2858814 B1 20061124**; EP 1663877 A2 20060607; WO 2005016834 A2 20050224; WO 2005016834 A3 20050414

DOCDB simple family (application)  
**FR 0309824 A 20030811**; EP 04786296 A 20040811; FR 2004002124 W 20040811