

Title (en)  
METHOD FOR PURIFYING WASTE WATER AND CORRESPONDING WASTE WATER PURIFICATION INSTALLATION

Title (de)  
VERFAHREN ZUM KLÄREN VON ABWASSER UND ENTSPRECHENDE ABWASSER-KLÄRANLAGE

Title (fr)  
PROCEDE DE PURIFICATION DES EAUX USEES AVEC PRODUCTION DE BOUE EN EXCEDENT ET INSTALLATION DE PURIFICATION DES EAUX USEES CORRESPONDANTE

Publication  
**EP 1567454 A2 20050831 (DE)**

Application  
**EP 03799470 A 20031204**

Priority  
• DE 10256918 A 20021205  
• EP 0313714 W 20031204

Abstract (en)  
[origin: WO2004050566A2] The invention relates to a method for purifying waste water, one stage of said purification method involving the aerobic treatment of waste water with micro-organisms, forming excess mud. The inventive method is characterised in that: (a) at least part of the excess mud (18) is supplied to a jet collision reactor (20) and is discharged from the same by means of a gas flow (28), as a homogenised, solubilised substrate; and (b) at least one large part of the substrate is either recirculated for the aerobic treatment of the waste water, or is supplied to a high-performance anaerobic reactor (40) for producing biogas, or part of the substrate is recirculated for the aerobic treatment and part is supplied to the high-performance anaerobic reactor (40) for producing biogas.

IPC 1-7  
**C02F 3/12**

IPC 8 full level  
**C02F 3/12** (2006.01); **C02F 11/00** (2006.01); **C02F 1/34** (2006.01); **C02F 11/04** (2006.01)

CPC (source: EP)  
**C02F 3/1221** (2013.01); **C02F 11/00** (2013.01); **C12M 21/04** (2013.01); **C12M 23/58** (2013.01); **C12M 29/18** (2013.01); **C12M 45/02** (2013.01); **C02F 1/34** (2013.01); **C02F 11/04** (2013.01); **Y02E 50/30** (2013.01); **Y02W 10/10** (2015.05); **Y02W 10/20** (2015.05)

Citation (search report)  
See references of WO 2004050566A2

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 PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004050566 A2 20040617**; **WO 2004050566 A3 20040715**; AU 2003299299 A1 20040623; AU 2003299299 A8 20040623; DE 10256918 A1 20040715; EP 1567454 A2 20050831

DOCDB simple family (application)  
**EP 0313714 W 20031204**; AU 2003299299 A 20031204; DE 10256918 A 20021205; EP 03799470 A 20031204