

Title (en)

DEVICE FOR INJECTING GAS INTO A LIQUID

Title (de)

VORRICHTUNG ZUR INJEKTION VON GAS IN EINE FLÜSSIGKEIT

Title (fr)

DISPOSITIF D'INJECTION D'UN GAZ DANS UN LIQUIDE

Publication

EP 1750831 A1 20070214 (FR)

Application

EP 05739371 A 20050322

Priority

- FR 2005050184 W 20050322
- FR 0450660 A 20040402

Abstract (en)

[origin: WO2005099880A1] The invention concerns a device for stirring a liquid (L) in a reactor and for injecting a gas in said liquid, comprising a self-aspirating turbine (5) for producing a gas-liquid dispersion, an axial flow rotor (4) with axial flow for collecting said dispersion, and means for directing the gas-liquid dispersion towards said axial flow rotor (4) with axial flow. The invention is characterized in that said means comprise deflecting means (8) integrated in the self-aspirating turbine (5). The invention is applicable to the biological treatment of industrial effluents.

IPC 8 full level

B01F 3/04 (2006.01); **C02F 3/16** (2006.01); **B01F 7/00** (2006.01); **B01F 7/16** (2006.01)

CPC (source: EP US)

B01F 23/2331 (2022.01 - EP US); **B01F 27/80** (2022.01 - EP US)

Citation (search report)

See references of WO 2005099880A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005099880 A1 20051027; CA 2561426 A1 20051027; EP 1750831 A1 20070214; FR 2868335 A1 20051007; FR 2868335 B1 20060602; US 2007290380 A1 20071220

DOCDB simple family (application)

FR 2005050184 W 20050322; CA 2561426 A 20050322; EP 05739371 A 20050322; FR 0450660 A 20040402; US 59957305 A 20050323