

Title (en)
DEVICE AND METHOD FOR GAS DISPERSION

Title (de)
VORRICHTUNG UND VERFAHREN ZUR GASDISPERGIERUNG

Title (fr)
DISPOSITIF ET PROCÉDÉ DE DISPERSION DE GAZ

Publication
EP 2608875 B1 20150121 (DE)

Application
EP 11723393 A 20110519

Priority
• DE 102010039700 A 20100824
• EP 2011058135 W 20110519

Abstract (en)
[origin: CA2809082A1] The invention relates to a device for dispersing gas into a liquid. The device has a number n of successive zones Z_1, Z_2, \dots, Z_n having static mixing elements, wherein each zone Z_i has a length L_i and an effective diameter D_i . The mechanical energy input E_t , which is standardised to the particular ratio L_i / D_i and acts on the gas/liquid mixture, increases from zone to zone in the flow direction. In this connection n is a whole number greater than or equal to 3 and i is an index which runs through the whole numbers from 1 to the number n of zones. The invention further relates to a method for dispersing gas into a liquid using the device according to the invention.

IPC 8 full level
B01F 3/04 (2006.01); **B01F 5/04** (2006.01); **B01F 5/06** (2006.01); **B01F 13/10** (2006.01)

CPC (source: EP US)
B01F 23/232 (2022.01 - EP US); **B01F 23/2323** (2022.01 - EP US); **B01F 25/3131** (2022.01 - EP US); **B01F 25/43141** (2022.01 - EP US); **B01F 25/43161** (2022.01 - EP US); **B01F 25/433** (2022.01 - EP US); **B01F 25/4334** (2022.01 - EP US); **B01F 33/82** (2022.01 - EP US); **B01F 33/821** (2022.01 - EP US)

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)
DE 102010039700 A1 20120301; CA 2809082 A1 20120301; CN 103249476 A 20130814; CN 103249476 B 20160210; EP 2608875 A1 20130703; EP 2608875 B1 20150121; ES 2535187 T3 20150506; SG 188250 A1 20130531; US 2013215710 A1 20130822; US 9440201 B2 20160913; WO 2012025264 A1 20120301

DOCDB simple family (application)
DE 102010039700 A 20100824; CA 2809082 A 20110519; CN 201180051376 A 20110519; EP 11723393 A 20110519; EP 2011058135 W 20110519; ES 11723393 T 20110519; SG 2013012521 A 20110519; US 201113818370 A 20110519