

Title (en)

DEVICE AND PROCESS FOR IMPROVING MIXING IN THE UV DISINFECTION OF LIQUIDS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERBESSERUNG DER DURCHMISCHUNG BEI DER UV-DESINFEKTION VON FLÜSSIGKEITEN

Title (fr)

DISPOSITIF ET PROCÉDÉ D'AMÉLIORATION DU MÉLANGE DANS LA DÉSINFECTION DE LIQUIDES PAR UV

Publication

**EP 2086889 A1 20090812 (DE)**

Application

**EP 07786030 A 20070712**

Priority

- EP 2007006198 W 20070712
- DE 102006052922 A 20061108

Abstract (en)

[origin: WO200805552A1] A device is proposed for the UV disinfection of liquids in an open or closed channel (1), having an inflow for the liquid to be disinfected, at least one UV irradiator (2) arranged downstream of the inflow in a main flow direction (9), and also having an outflow arranged downstream of the UV irradiator (2), in which a mixing device (6, 12, 13, 14, 18, 21) which is driven by an electric motor is arranged between the inflow and the at least one UV irradiator (2), which mixing device is set up for generating a crossflow (8, 8') having at least one velocity component transverse to the main flow direction (9) in order to improve mixing of the liquid.

IPC 8 full level

**C02F 1/32** (2006.01)

CPC (source: EP KR US)

**C02F 1/325** (2013.01 - EP KR US); **C02F 2201/002** (2013.01 - KR); **C02F 2201/3225** (2013.01 - EP US); **C02F 2201/328** (2013.01 - EP KR US); **C02F 2209/40** (2013.01 - KR); **C02F 2301/024** (2013.01 - EP US); **C02F 2303/04** (2013.01 - KR)

Citation (search report)

See references of WO 200805552A1

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 LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 200805552 A1 20080515**; AU 2007317014 A1 20080515; AU 2007317014 B2 20130718; CA 2668964 A1 20080515; CA 2668964 C 20150203; CN 101553433 A 20091007; CN 101553433 B 20130821; DE 102006052922 A1 20080529; DE 102006052922 B4 20120223; EP 2086889 A1 20090812; HK 1134479 A1 20100430; JP 2010509042 A 20100325; KR 20090089374 A 20090821; NZ 577468 A 20110930; US 2010089839 A1 20100415; US 8696898 B2 20140415

DOCDB simple family (application)

**EP 2007006198 W 20070712**; AU 2007317014 A 20070712; CA 2668964 A 20070712; CN 200780041290 A 20070712; DE 102006052922 A 20061108; EP 07786030 A 20070712; HK 10102551 A 20100311; JP 2009535581 A 20070712; KR 20097011762 A 20070712; NZ 57746807 A 20070712; US 51343807 A 20070712