

Title (en)

DEVICE AND METHOD FOR TREATMENT OF WATER AND OTHER LIQUID MATERIALS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BEHANDLUNG VON WASSER UND ANDEREN FLÜSSIGEN MATERIALIEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LE TRAITEMENT DE L'EAU ET AUTRES MATÉRIAUX LIQUIDES

Publication

EP 2114828 A4 20140108 (EN)

Application

EP 07817961 A 20071107

Priority

- DK 2007050165 W 20071107
- DK PA200601444 A 20061107
- DK PA200601517 A 20061110

Abstract (en)

[origin: WO2008055508A1] There is disclosed a device (2) for treatment of water/liquids which comprises a tubular element (3, 4, 6) comprising two passages (11, 13) in which there are housed a first guide plate (10) and a second guide plate (14) which are spiralled in opposite directions around their centre axes (18), and where inside the straight, tubular element (3, 4, 6) there is provided a shorter, straight, plane plate-shaped piece (60, 62) which is disposed between the first spiralled guide plate (10) and the second spiralled guide plate (14), so that the ends of the shorter plate piece (60, 62) facing the spiralled guide plates stand in extension of and are level with the corresponding ends of the spiralled guide plates (10, 14). The guide plates (10, 14) divide the passages in the tubular element into two or more parts in which water/liquid can flow, whereby this is influenced to assume a preferred direction of flow, depending on the hemisphere in which the device is installed, by which influence particles contained in the water, e.g. lime, do not form deposits in a subsequent water station, neither in pipes nor at tapping places. The device (2) also has an advantageous effect on the quality of many other aspects of liquids which are treated by flowing through the device.

IPC 8 full level

C02F 1/00 (2006.01); **B01F 25/4314** (2022.01); **C02F 1/48** (2006.01)

CPC (source: EP)

B01F 25/43141 (2022.01); **C02F 1/006** (2013.01); **C02F 1/481** (2013.01); **C02F 5/00** (2013.01); **C02F 2103/023** (2013.01); **C02F 2301/024** (2013.01); **C02F 2301/026** (2013.01); **C02F 2303/02** (2013.01)

Citation (search report)

- [A] GB 1385569 A 19750226 - CLASEN H
- [A] DE 10056673 A1 20020529 - DEUTSCH ZENTR LUFT & RAUMFAHRT [DE]
- [A] US 2006120214 A1 20060608 - RAFTIS SPIROS G [US]
- [A] EP 0145134 A2 19850619 - SEALED POWER CORP [US]
- [A] US 3862022 A 19750121 - HERMANN PAUL F
- [A] EP 0077130 A1 19830420 - MIHAMA MFG [JP], et al
- See references of WO 2008055508A1

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 2008055508 A1 20080515; EP 2114828 A1 20091111; EP 2114828 A4 20140108

DOCDB simple family (application)

DK 2007050165 W 20071107; EP 07817961 A 20071107