

Title (en)

FLOW DEVICE AND A METHOD FOR GUIDING A FLUID FLOW

Title (de)

STRÖMUNGSAPPARAT UND VERFAHREN ZUR FÜHRUNG EINES FLUIDSTROMS

Title (fr)

APPAREIL À ÉCOULEMENT ET PROCÉDÉ PERMETTANT DE GUIDER UN COURANT DE FLUIDE

Publication

EP 3102899 A2 20161214 (DE)

Application

EP 15703755 A 20150130

Priority

- DE 102014201908 A 20140203
- EP 2015051960 W 20150130

Abstract (en)

[origin: WO2015114105A2] The invention relates to a flow device (50) comprising a first line system (60) through which a first fluid flow (100) is conducted, said first line system (60) having a guide tube (21) and at least one guide means (20, 22) that influences a flow direction of said fluid flow (100) such that, between an inflow region (61b) and an outflow region (62b) of said first line system (60), the fluid flow (100) circulates in a radially circumferential manner around an in and/or outflow axis (102, 103), in a circulating-flow region (105) at a circumferential angle UW. The invention also relates to a method for conducting a fluid flow (10), which comprises an inflow and an outflow section (12, 13) that have a substantially parallel, preferably coaxial, in and outflow axis (14, 15). It is suggested that the fluid flow (10) is deflected by at least one guide means (20) arranged between the inflow section (12) and outflow section (13), in a circulating-flow section (17) and at a circumferential angle UW, so as to radially circulate around said in and outflow axes (14, 15), this circumferential angle UW being greater than 0°.

IPC 8 full level

F28D 7/16 (2006.01); **F28D 7/06** (2006.01); **F28F 9/22** (2006.01)

CPC (source: CN EP KR US)

F28D 7/06 (2013.01 - CN EP KR US); **F28D 7/103** (2013.01 - US); **F28D 7/1607** (2013.01 - CN EP KR US); **F28F 1/003** (2013.01 - US); **F28F 9/0131** (2013.01 - US); **F28F 9/0265** (2013.01 - CN EP KR US); **F28F 9/028** (2013.01 - CN EP KR US); **F28F 9/22** (2013.01 - CN EP KR US); **F28F 9/26** (2013.01 - US); **F28F 27/02** (2013.01 - CN EP KR US); **F28F 2009/222** (2013.01 - CN EP KR US)

Citation (search report)

See references of WO 2015114105A2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015114105 A2 20150806; **WO 2015114105 A3 20151029**; CN 105992927 A 20161005; CN 105992927 B 20190924; DE 102014201908 A1 20150806; EP 3102899 A2 20161214; EP 3102899 B1 20221130; ES 2937639 T3 20230330; KR 102301068 B1 20210914; KR 20160117423 A 20161010; PT 3102899 T 20230201; US 10386130 B2 20190820; US 2016334175 A1 20161117

DOCDB simple family (application)

EP 2015051960 W 20150130; CN 201580005991 A 20150130; DE 102014201908 A 20140203; EP 15703755 A 20150130; ES 15703755 T 20150130; KR 20167017624 A 20150130; PT 15703755 T 20150130; US 201615217675 A 20160722