

Title (en)
ARRANGEMENT FOR CONTROLLING THE TEMPERATURE OF A FLUID

Title (de)
ANORDNUNG ZUR FLUIDTEMPERIERUNG

Title (fr)
SYSTÈME DE THERMORÉGULATION D'UN FLUIDE

Publication
EP 3507561 A1 20190710 (DE)

Application
EP 17724000 A 20170516

Priority
• DE 102016216245 A 20160830
• EP 2017061705 W 20170516

Abstract (en)
[origin: WO2018041424A1] An arrangement for controlling the temperature of a fluid is described, which comprises a heat exchange surface (16), an inlet conduit arrangement (20) for supplying a fluid inflow (122) to the heat exchange surface (16) in a main inlet conduit (22), and a return conduit arrangement (40) having a main return conduit (42) for carrying a fluid return flow (142) away from the heat exchange surface (16). The inlet conduit arrangement (20) has a plurality of supply sections (24), which are fluidically connected to the main inlet conduit (22) and through which the fluid flow is directed at an angle onto the heat exchange surface (16) in a plurality of spatially separate partial fluid inflows (124). The arrangement is characterized in that, in a region interacting with the heat exchange surface (16), the return conduit arrangement (40) comprises draining sections (44), which are configured and arranged in such a way that partial fluid outflows (144) carried away from the heat exchange surface (16) are carried therein spatially separately from the partial fluid inflows (124).

IPC 8 full level
F28F 9/02 (2006.01); **F28D 11/02** (2006.01); **F28F 5/02** (2006.01); **H02K 1/32** (2006.01); **H02K 9/00** (2006.01)

CPC (source: EP)
F28D 11/02 (2013.01); **F28F 5/02** (2013.01); **F28F 9/0275** (2013.01); **H02K 1/32** (2013.01)

Citation (search report)
See references of WO 2018041424A1

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)
DE 102016216245 A1 20180301; EP 3507561 A1 20190710; WO 2018041424 A1 20180308

DOCDB simple family (application)
DE 102016216245 A 20160830; EP 17724000 A 20170516; EP 2017061705 W 20170516