

Title (en)

Homogenisation device, heat exchanger assembly and method of homogenising a temperature distribution in a fluid stream

Title (de)

Homogenisierungsvorrichtung, Wärmetauscheranordnung und Verfahren zur Homogenisierung der Temperaturverteilung in einem Flüssigkeitsstrom

Title (fr)

Dispositif d'homogénéisation, ensemble échangeur de chaleur et procédé d'homogénéisation de la répartition de température dans un flux de fluide

Publication

EP 2687808 A1 20140122 (EN)

Application

EP 12176836 A 20120718

Priority

EP 12176836 A 20120718

Abstract (en)

A homogenisation device (10) which is in particular suitable to homogenise a temperature distribution in a fluid stream exiting a heat exchanger comprises a body (12) with a fluid flow passage (14) extending therethrough. The homogenisation device (10) further comprises a flow control device (20) which is disposed in the fluid flow passage (14) and which is configured to induce a swirl (S) in an outer layer (32) of a fluid stream flowing through the fluid flow passage (14), while the flow characteristics of a core layer (34) of the fluid stream remain substantially unaffected by the flow control device (20).

IPC 8 full level

F28F 9/02 (2006.01)

CPC (source: EP US)

F28F 9/0263 (2013.01 - EP US); **F28F 9/0265** (2013.01 - EP US); **F28F 13/12** (2013.01 - US); **F28F 1/40** (2013.01 - EP US)

Citation (search report)

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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)

EP 2687808 A1 20140122; CN 103575158 A 20140212; CN 103575158 B 20160511; US 2014020864 A1 20140123

DOCDB simple family (application)

EP 12176836 A 20120718; CN 201310302880 A 20130718; US 201313938812 A 20130710