

Title (en)

MIXING DEVICE AND METHOD FOR CONTROLLING THE TEMPERATURE OF A FLUID FLOW

Title (de)

MISCHEINRICHTUNG SOWIE VERFAHREN ZUM TEMPERIEREN EINER FLÜSSIGKEITSSTRÖMUNG

Title (fr)

DISPOSITIF DE MÉLANGE ET PROCÉDÉ DE RÉGULATION DE TEMPÉRATION D'UN ÉCOULEMENT DE LIQUIDE

Publication

EP 3662205 A1 20200610 (DE)

Application

EP 18746218 A 20180802

Priority

- EP 17184777 A 20170803
- EP 2018070969 W 20180802

Abstract (en)

[origin: WO2019025526A1] The invention relates to a mixing device comprising a first (84) and a second (86) inlet and an outlet (80), wherein the first inlet (84) is connected to the outlet (80) via a first flow connection and the second inlet (86) is connected to the outlet (80) via a second flow connection, wherein the mixing device has a circulation pump assembly (24; 46) with an electric drive motor (30), a control device (34) for controlling the speed of the drive motor (30) and at least one impeller (68; 100) driven by the drive motor, said at least one impeller (68; 100) being positioned in the first flow connection, and said flow connections being configured in such a way that at least one hydraulic pressure generated by the impeller (68; 100) in the first flow connection acts as hydraulic resistance in the second flow connection.

IPC 8 full level

F24D 3/10 (2006.01); **F04D 15/00** (2006.01); **F04D 29/42** (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)

F04D 15/0016 (2013.01 - EP); **F04D 15/0066** (2013.01 - EP US); **F04D 29/4293** (2013.01 - US); **F24D 3/105** (2013.01 - EP US); **F24D 3/1066** (2013.01 - US); **F24D 3/16** (2013.01 - US); **F24D 19/1012** (2013.01 - EP US); **F24D 3/1066** (2013.01 - EP); **F24D 2220/0207** (2013.01 - EP US); **F24D 2220/0271** (2013.01 - EP US); **Y02B 30/70** (2013.01 - EP)

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 3438556 A1 20190206; CN 110998192 A 20200410; CN 110998192 B 20211008; EP 3662205 A1 20200610; US 2020158351 A1 20200521; WO 2019025526 A1 20190207

DOCDB simple family (application)

EP 17184777 A 20170803; CN 201880050312 A 20180802; EP 18746218 A 20180802; EP 2018070969 W 20180802; US 201816635898 A 20180802