

Title (en)

PRESSURE EXCHANGER FOR TRANSFERRING PRESSURE ENERGY FROM ONE LIQUID FLOW TO ANOTHER LIQUID FLOW

Title (de)

DRUCKAUSTAUSCHER ZUR ÜBERTRAGUNG VON DRUCKENERGIE VON EINEM ERSTEN FLÜSSIGKEITSSTROM AUF EINEN ZWEITEN FLÜSSIGKEITSSTROM

Title (fr)

ECHANGEUR DE PRESSION DESTINÉ À LA TRANSMISSION D'ÉNERGIE DE PRESSION D'UN PREMIER FLUX DE LIQUIDE DANS UN DEUXIÈME FLUX DE LIQUIDE

Publication

EP 2078867 B1 20180530 (DE)

Application

EP 07023903 A 20071211

Priority

EP 07023903 A 20071211

Abstract (en)

[origin: EP2078867A1] The exchanger has a rotor (4) arranged in a cylindrical housing (2) having connecting tubes (12a, 12b, 14a, 14b) for two liquid streams, respectively. The rotor has channels (10) radially extending from a rotation axis (X) of the rotor from an axial end of the rotor to an opposite axial end of the rotor. The rotor is arranged relative to the tubes such that the channels alternately connect the tube (14a) with the tube (14b) and the tube (12b) with the tube (12a) during rotating of the rotor. The rotor is rotationally driven by a drive motor (22), which changes rotational speed of the rotor.

IPC 8 full level

F04F 13/00 (2009.01)

CPC (source: EP US)

F04F 13/00 (2013.01 - EP US)

Cited by

EP2837825A1; EP2837824A1; CN105114368A; EP2483207A4; US9556736B2; WO2011153920A1

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DOCDB simple family (publication)

EP 2078867 A1 20090715; EP 2078867 B1 20180530; CN 101925749 A 20101222; CN 101925749 B 20130327; US 2011008182 A1 20110113; US 8226376 B2 20120724; WO 2009074195 A1 20090618

DOCDB simple family (application)

EP 07023903 A 20071211; CN 200880125461 A 20081031; EP 2008009191 W 20081031; US 74706408 A 20081031