

Title (en)

Method of heat exchanging and heat exchanger

Title (de)

Wärmeaustauschverfahren und Wärmetauscher

Title (fr)

Procédé d'échanger de chaleur et échangeur de chaleur

Publication

EP 1724544 A1 20061122 (DE)

Application

EP 05010854 A 20050519

Priority

EP 05010854 A 20050519

Abstract (en)

The method involves exchanging heat between a primary fluid (P) and a secondary fluid(s). The primary fluid is provided by a heat exchanger pipe which partly flows around by the secondary fluid(s) (9, 10, 11). The primary fluid is provided in a first direction of flow (100) and after a flow reversal, in an opposite second direction of flow (200) by the heat exchange pipe. The flow reversal is accomplished at expiration of a time interval which is somewhat shorter than the life span of the heat exchanger pipe. The direction of flow of the primary fluid is turned around and repeated. An independent claim is included for a heat exchanger.

IPC 8 full level

F28D 7/06 (2006.01); **F28F 19/00** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP)

F28D 7/06 (2013.01); **F28F 9/0229** (2013.01); **F28F 19/00** (2013.01); **F28F 27/02** (2013.01); **F28F 2250/08** (2013.01)

Citation (search report)

- [X] DE 2803748 A1 19780928 - SCHWERMASCH LIEBKNECHT VEB K
- [X] US 3211217 A 19651012 - MCKEE WAYNE H, et al
- [X] US 4153105 A 19790508 - SCHRODER JOHANN
- [A] US 4323116 A 19820406 - ZIMMERMAN CHARLES J
- [A] US 3319710 A 19670516 - HEEREN HERMANN [DE], et al
- [A] FR 2697027 A1 19940422 - INST FS RECH EXPL MER [FR], et al

Cited by

EP2148163A3; CN113418410A; EP3407001A1; KR20200011480A; US11073347B2; WO2018215102A1; US10767942B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1724544 A1 20061122

DOCDB simple family (application)

EP 05010854 A 20050519