

Title (en)

HEAT EXCHANGER ASSEMBLY WHICH IS INTENDED, IN PARTICULAR, FOR A HIGH-TEMPERATURE NUCLEAR REACTOR

Title (de)

WÄRMETAUSCHERANORDNUNG, DIE INSBESONDERE FÜR EINEN HOCHTEMPERATURKERNREAKTOR BESTIMMT IST

Title (fr)

ENSEMBLE D'ECHANGE DE CHALEUR, NOTAMMENT POUR REACTEUR NUCLEAIRE A HAUTE TEMPERATURE

Publication

EP 1902266 A1 20080326 (FR)

Application

EP 06778635 A 20060622

Priority

- FR 2006001430 W 20060622
- FR 0506512 A 20050627

Abstract (en)

[origin: WO2007000507A1] The invention relates to a heat exchanger assembly (1) which enables the exchange of heat between a first fluid and a second fluid. The inventive assembly comprises: a central manifold (14) which is communicated with either the inlet or the outlet (6) of the first fluid; an annular manifold (16) which is disposed around the central manifold (14) and which is communicated with the remaining inlet or outlet (6) of the first fluid; a plurality of heat exchangers (12) which are disposed radially between the central manifold (14) and the annular manifold (16); a plurality of axial inlet manifolds (18) which are communicated with the inlet (8) of the second fluid; and a plurality of axial outlet manifolds which are communicated with the outlet (10) of the second fluid, said inlet and outlet axial manifolds (18) being disposed circumferentially between the exchangers (12). According to the invention, the assembly comprises an inlet chamber (22) which is provided on a first axial side of the exchangers (12), such as establish a communication between the inlet(s) (8) of the second fluid and at least more than one axial inlet manifold (18).

IPC 8 full level

F28F 9/02 (2006.01); **F28D 7/16** (2006.01); **G21C 1/12** (2006.01)

CPC (source: EP KR US)

F28D 7/16 (2013.01 - KR); **F28D 9/0006** (2013.01 - EP US); **F28F 9/02** (2013.01 - EP KR US); **F28D 2021/0054** (2013.01 - EP US); **F28F 2250/108** (2013.01 - EP US); **F28F 2265/26** (2013.01 - EP US); **F28F 2280/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2007000507A1

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2887618 A1 20061229; FR 2887618 B1 20070914; AT E413577 T1 20081115; CN 100559108 C 20091111; CN 101208577 A 20080625; DE 602006003562 D1 20081218; EP 1902266 A1 20080326; EP 1902266 B1 20081105; JP 2008546985 A 20081225; JP 4714267 B2 20110629; KR 101329537 B1 20131118; KR 20080025694 A 20080321; RU 2008102989 A 20090810; RU 2414661 C2 20110320; US 2010038062 A1 20100218; US 8081729 B2 20111220; WO 2007000507 A1 20070104; ZA 200710875 B 20081231

DOCDB simple family (application)

FR 0506512 A 20050627; AT 06778635 T 20060622; CN 200680023326 A 20060622; DE 602006003562 T 20060622; EP 06778635 A 20060622; FR 2006001430 W 20060622; JP 2008518900 A 20060622; KR 20077030248 A 20060622; RU 2008102989 A 20060622; US 99376306 A 20060622; ZA 200710875 A 20071214