

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

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Application
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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).

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