

Title (en)
A HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 4194787 A1 20230614 (EN)

Application
EP 21213845 A 20211210

Priority
EP 21213845 A 20211210

Abstract (en)
A heat exchanger for a heat exchange between a first fluid and at least one second fluid is disclosed. The heat exchanger comprises a first manifold, a second manifold and a plurality of tubes configured to provide a fluidal communication between the manifolds for flow of the first fluid. The plurality of tubes comprise a first stack of tubes and a second stack of tubes arranged in parallel to the first stack of tubes. The first manifold comprises at least two inlet channels and at least two outlet channels. The inlet channels and outlet channels are in fluid communication with a desired set of tubes in the first stack of tubes and the second stack of tubes, respectively. This arrangement achieves uniform distribution of the first fluid, provide a longer flow path for the first fluid and increase heat exchanger rate between the first fluid and the second fluid.

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Citation (search report)
• [X] WO 2005040710 A1 20050506 - SHOWA DENKO KK [JP], et al
• [X] EP 3872435 A1 20210901 - VALEO AUTOSYSTEMY SP ZOO [PL]
• [X] WO 2005124259 A1 20051229 - SHOWA DENKO KK [JP], et al

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