

Title (en)

HEAT EXCHANGER, PARTICULARLY FOR A MOTOR VEHICLE

Title (de)

WÄRMETAUSCHER, INSbesondere FÜR EIN KRAFTFAHRZEUG

Title (fr)

ECHANGEUR THERMIQUE NOTAMMENT POUR UN VEHICULE A MOTEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2009033643A1] The invention relates to a heat exchanger, particularly for a motor vehicle, comprising a plurality of exchanger tubes (3) attached to at least one floor for conveying a first fluid, wherein the exchanger tubes (3) are disposed in a housing through which a second fluid flows, wherein a holding member (5) is disposed inside the housing, wherein at least two of the exchanger tubes (3) are supported relative to one another by means of the holding member (5).

IPC 8 full level

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Y02T 10/12 (2013.01 - EP US)

Citation (search report)

See references of WO 2009033643A1

Citation (examination)

- US 2392638 A 19460108 - BOWMAN ROBERT A, et al
- US 5447191 A 19950905 - BOULA GERARD [FR]
- JP 2000097113 A 20000404 - NISSAN DIESEL MOTOR CO
- US 1967961 A 19340724 - METTEN JOHN F
- US 4221261 A 19800909 - WUNDER JOHN E, et al
- DE 2735618 A1 19780209 - BABCOCK & WILCOX LTD
- EP 1589214 A2 20051026 - PIERBURG GMBH [DE]

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DOCDB simple family (publication)

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