

Title (en)

HEAT EXCHANGER WITH TUBE CORE, IN PARTICULAR FOR A SUPERCHARGED INTERNAL COMBUSTION ENGINE

Title (de)

WÄRMETAUSCHER MIT ROHRKERN, BESONDERS FÜR EINEN TURBOVERBRENNUNGSMOTOR

Title (fr)

ECHANGEUR THERMIQUE A FAISCEAU TUBULAIRE, NOTAMMENT POUR UN MOTEUR A COMBUSTION INTERNE SURALIMENTE

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Application

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Abstract (en)

[origin: WO2006021704A1] The invention concerns a heat exchanger (14) of the type comprising at least a first manifold (16) and a second manifold (18) which are connected by a bundle (20) of horizontal tubes wherein circulates an air flow (Fi) to be cooled by a cooling air flow (Fe). The invention is characterized in that the bundle (20) comprises at least: a first portion (P1) including a first series of tubes (S1P1) with turbulators (34) of passage section (S11) and a second series of tubes with no turbulators (S2P1) of passage section (S12) corresponding to the section (S11); a second portion (P2) including a first series of tubes with no turbulators (S1P2) of passage section (S21) and a second series of tubes (S2P2) with turbulators (34) of passage section (S22) corresponding to the section (S21); and a distribution box (24) of the internal air flow (Fi) to be cooled including connection means (40) between the first portion (P1) and the second portion (P2).

IPC 8 full level

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