

Title (en)
HEAT TRANSPORT DEVICE

Title (de)
WÄRMETRANSPORTEINRICHTUNG

Title (fr)
DISPOSITIF DE TRANSFERT DE CHALEUR

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Application
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Abstract (en)
[origin: WO2005121682A1] The invention relates to a heat transport device (10) which is used to cool or temper a device, which is to be operated at a defined operational temperature and which comprises a cooling and/or heat exchange device, comprising at least one flow channel (14) for a heat transport fluid, which extends in a coiled or spiral-shaped manner through a block (12) which is in good thermal contact with a device or an area which is to be cooled, said block acting as a mechanical carrier for a device, sensor, bearing and electronic element which are to be tempered. The flow channel (14) guiding the heat transport means is embodied at least sectionally in such a manner that the channel coils (29) are embodied by segment sheet metal recesses (39/i) by sections arranged in a light cross-section over-lapping. The segment sheet steels (39/i) are connected together in a rigid manner by hard-soldering and surround flat channel sections in sections which are offset counter to each other about the sheet steel thickness of the segment sheet steel. A cooling gas chamber (62) is provided for a sensor (24) which is to be cooled, said cooling gas chamber comprising a pot-shaped cylindrical housing provided with a jacket tube made of titanium. Said housing is locked by a ceramic disk which is hard soldered to the titanium tube.

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