

Title (en)

PLATE-TYPE HEAT EXCHANGER, ESPECIALLY OIL/COOLANT COOLER IN VEHICLES

Title (de)

PLATTENWÄRMETAUSCHER, INSBESONDERE ÖL/KÜHLMITTEL-KÜHLER FÜR KRAFTFAHRZEUGE

Title (fr)

ECHANGEUR THERMIQUE A PLAQUES, NOTAMMENT REFROIDISSEUR D'HUILE/REFRIGERANT POUR VEHICULES

Publication

EP 0928405 B1 20000809 (DE)

Application

EP 98933510 A 19980512

Priority

- DE 9801317 W 19980512
- DE 19722074 A 19970527

Abstract (en)

[origin: DE19722074A1] Disclosed is a heat exchanger comprising superimposed heat exchanger plates (2, 2'), a collar (4), fluid connectors (12), connecting holes (5) and fastening means which present at least one passage (15) comprised of holes (6, 27) in alignment towards each other in the plates (2, 2'), through which a tension rod (16) can be passed. One end of said rod (16) rests upon the connecting plate (26) or the plate (2, 2') adjacent thereto. In the hole (6, 27) alignment area, each thermal plate is tight relative to the adjacent plate (2, 2').

IPC 1-7

F28D 9/00

IPC 8 full level

F28F 3/08 (2006.01); **F28D 9/00** (2006.01); **F28F 9/00** (2006.01)

CPC (source: EP US)

F28D 9/005 (2013.01 - EP US); **F28F 9/002** (2013.01 - EP US); **F28F 2275/205** (2013.01 - EP US); **Y10S 165/916** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB

DOCDB simple family (publication)

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