

Title (en)

HEAT EXCHANGER WITH LIQUID CIRCULATION, ESPECIALLY FOR MOTOR CARS, HAVING A GAS-VENTING PASSAGE

Publication

EP 0290339 B1 19900926 (FR)

Application

EP 88401080 A 19880504

Priority

FR 8706327 A 19870505

Abstract (en)

[origin: US4846265A] Heat exchanger comprising a cluster (10) of tubes in which a liquid coolant circulates, at least one collector reservoir (20) mounted at one end of the cluster, an expansion chamber (22) in communication with said collector reservoir at its bottom part and a liquid degasification passage connecting the collector reservoir (20) to the expansion chamber (22), this degasification passage comprising at least one tube (54) of the cluster (10) situated at a level below that of a transverse wall of the collector reservoir (20) as well as a conduit (60) which opens into the expansion chamber (22) and into the collector reservoir (20) facing and at some distance from the mouth (58) of the tube or tubes (54).

IPC 1-7

F28F 9/02

IPC 8 full level

F28F 9/02 (2006.01)

CPC (source: EP US)

F28F 9/0231 (2013.01 - EP US); **Y10S 165/917** (2013.01 - EP US)

Cited by

DE4425440A1; GB2303438A; US6123144A

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

EP 0290339 A1 19881109; **EP 0290339 B1 19900926**; BR 8802067 A 19881129; DE 3860690 D1 19901031; ES 2017793 B3 19910301; FR 2614979 A1 19881110; FR 2614979 B1 19900629; MX 168116 B 19930504; US 4846265 A 19890711

DOCDB simple family (application)

EP 88401080 A 19880504; BR 8802067 A 19880429; DE 3860690 T 19880504; ES 88401080 T 19880504; FR 8706327 A 19870505; MX 1137288 A 19880504; US 19037788 A 19880505