

Title (en)
Heat pipe

Title (de)
Wärmerohr

Title (fr)
Caloduc

Publication
EP 0600192 B1 19960424 (DE)

Application
EP 93116292 A 19931008

Priority
DE 4240081 A 19921128

Abstract (en)
[origin: US5358033A] A heat pipe structure, especially for cooling in a spacecraft, is equipped with a main heat pipe and at least one smaller diameter auxiliary heat pipe arranged so that the main and auxiliary pipes are in thermal contact with each other at the evaporator end of the main heat pipe. The condenser end of the auxiliary heat pipe, or pipes, is connected in a heat exchange manner with an auxiliary radiator or heat exchanger which is smaller than and thermally insulated from a main heat exchanger, the latter being in thermal contact with the condenser end of the main heat pipe. The auxiliary heat pipe, or pipes, super cools a bubble trap in the main heat pipe for removing of gas and/or vapor bubbles from the liquid flow path of the main heat pipe.

IPC 1-7
F28D 15/02

IPC 8 full level
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CPC (source: EP US)
F28D 15/0258 (2013.01 - EP US); **F28D 15/0275** (2013.01 - EP US); **F28F 1/16** (2013.01 - EP US)

Cited by
DE102006045701A1; FR2840394A1; US7174950B2

Designated contracting state (EPC)
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DOCDB simple family (publication)
DE 4240081 C1 19940428; DE 59302367 D1 19960530; EP 0600192 A1 19940608; EP 0600192 B1 19960424; US 5358033 A 19941025

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