

Title (en)

Metal heat-exchanger tube for cooling viscous fluids.

Title (de)

Metallisches Wärmeaustauscherröhr zur Kühlung von zähen Medien.

Title (fr)

Tube métallique d'un échangeur de chaleur pour refroidir des fluides visqueux.

Publication

EP 0547363 B1 19950524 (DE)





Application

EP 92119096 A 19921107

Priority

DE 4141240 A 19911214

Abstract (en)

[origin: EP0547363A1] The invention relates to a metal heat-exchanger tube (1) having integral fins (2 or 3), running round on the outside and inside in the shape of a helix, for cooling viscous fluids (4), in particular oil in servo circuits of vehicles, the fluid (4) to be cooled flowing through the tube (1) and the outside thereof being cooled by air (5). A discontinuous rise in heat removal is achieved according to the invention by the following features: a.) the ratio of the external heat transfer area A_a of the tube (1)/internal heat transfer area A_i of the tube (1) is:  b.) the relationship:  holds for the clear internal diameter d_i of the tube (1), with internal diameter d_i (mm), volumetric  of the fluid (4) (m^3/h), kinematic viscosity ν (mm^2/s). 

IPC 1-7

F28F 1/42

IPC 8 full level

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CPC (source: EP)

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Cited by

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Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

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