

Title (en)
Heat transfer tube

Title (de)
Wärmeaustauscherrohr

Title (fr)
Tube pour échangeur de chaleur

Publication
EP 0798529 B1 20021016 (DE)

Application
EP 97103505 A 19970304

Priority
DE 19612470 A 19960328

Abstract (en)
[origin: EP0798529A1] The tube has a structured inner surface which comprises ribs (14). The ribs have inclined flanks and channels (13) are laterally limited by the ribs. Troughs (18) penetrate the ribs crossways and also have inclined flanks which extend at an angle (γ) deviating from 90 degrees to the tube longitudinal axis (6). Out of two ribs (7,14) running next to each other in a peripheral direction a primary rib has a greater radial extent than the adjacent secondary rib. It is also possible for the primary and secondary ribs to have the same radial extent. They can also run at the same angle (α) or at different angles to the tube longitudinal axis.

IPC 1-7
F28F 1/40

IPC 8 full level
F28F 1/40 (2006.01); **F28F 13/04** (2006.01)

CPC (source: EP US)
F28F 1/40 (2013.01 - EP US); **F28F 13/04** (2013.01 - EP US)

Cited by
EP1818641A4; US10415892B2; EP2453119A4; USD945579S

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IT LI NL SE

DOCDB simple family (publication)
EP 0798529 A1 19971001; EP 0798529 B1 20021016; AT E226310 T1 20021115; AU 1650997 A 19971002; AU 709707 B2 19990902; CA 2200671 A1 19970928; CA 2200671 C 20021119; DE 19612470 A1 19971002; DE 59708466 D1 20021121; DK 0798529 T3 20030217; ES 2180835 T3 20030216; JP H109789 A 19980116; MY 119385 A 20050531; RU 2179292 C2 20020210; TW 332859 B 19980601; US 6308775 B1 20011030; ZA 972300 B 19971022

DOCDB simple family (application)
EP 97103505 A 19970304; AT 97103505 T 19970304; AU 1650997 A 19970325; CA 2200671 A 19970321; DE 19612470 A 19960328; DE 59708466 T 19970304; DK 97103505 T 19970304; ES 97103505 T 19970304; JP 7599097 A 19970327; MY PI9701236 A 19970324; RU 97104732 A 19970327; TW 86103101 A 19970313; US 82969997 A 19970326; ZA 972300 A 19970317