

Title (en)
HEAT EXCHANGER TUBE FOR HEATING BOILERS

Title (de)
WÄRMETAUSCHERROHR FÜR HEIZKESSEL

Title (fr)
TUBE ECHANGEUR DE CHALEUR POUR CHAUDIERE DE CHAUFFAGE

Publication
EP 0752088 B1 19971126 (DE)

Application
EP 95913118 A 19950315

Priority

- DE 9405062 U 19940324
- EP 9500957 W 19950315

Abstract (en)
[origin: US6070657A] PCT No. PCT/EP95/00957 Sec. 371 Date Sep. 16, 1996 Sec. 102(e) Date Sep. 16, 1996 PCT Filed Mar. 15, 1995 PCT Pub. No. WO95/25937 PCT Pub. Date Sep. 28, 1995The heat exchanger tube comprises a cylindrical, smooth walled outer tube (1) of steel into which a profiled insert (2) of aluminium is inserted. The profiled insert is constituted by two half shells (3,4) which engage in one another at their longitudinal edges with groove-shaped recesses (7) and rib-like projections (8). Both half shells (3,4) carry longitudinally extending ribs (5) on their internal surface which are so aligned that each half shell with its ribs constitutes a profile which is open on one side.

IPC 1-7
F28F 1/40; **F24H 9/00**; **F28F 21/08**

IPC 8 full level
F24H 9/00 (2006.01); **F28F 1/40** (2006.01); **F28F 13/06** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP KR US)
F24H 9/00 (2013.01 - KR); **F24H 9/0026** (2013.01 - EP US); **F28F 1/40** (2013.01 - EP KR US); **F28F 13/06** (2013.01 - EP US); **F28F 21/082** (2013.01 - EP US); **F28F 21/084** (2013.01 - EP US); **F28F 2255/16** (2013.01 - EP US); **F28F 2275/14** (2013.01 - EP US)

Cited by
EP3301378A1; EP2781873A4; EP3040638A1; EP3040638B1; EP1617139B1

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

DOCDB simple family (publication)
US 6070657 A 20000606; AT E160628 T1 19971215; AU 2070895 A 19951009; AU 678713 B2 19970605; CA 2186270 A1 19950928; CA 2186270 C 20000613; CN 1120347 C 20030903; CN 1144558 A 19970305; CZ 261396 A3 19961211; CZ 286145 B6 20000112; DE 59501046 D1 19980108; DE 9405062 U1 19940526; DK 0752088 T3 19980810; EE 03318 B1 20001215; EP 0752088 A1 19970108; EP 0752088 B1 19971126; ES 2112055 T3 19980316; FI 107835 B 20011015; FI 963772 A0 19960923; FI 963772 A 19960923; GR 3026039 T3 19980430; HR P950131 A2 19970228; HR P950131 B1 20001031; HU 220435 B 20020128; HU 9602608 D0 19961128; HU P9774653 A2 19970128; JP 3016866 B2 20000306; JP H09507708 A 19970805; KR 100217265 B1 19990901; KR 970701851 A 19970412; LV 12025 A 19980420; LV 12025 B 19980720; NO 303151 B1 19980602; NO 963993 D0 19960923; NO 963993 L 19960923; NZ 282800 A 19970324; PL 178916 B1 20000630; PL 316389 A1 19970106; RU 2125219 C1 19990120; SK 116596 A3 19981007; SK 281996 B6 20011008; TR 28643 A 19961216; UA 26941 C2 19991229; WO 9525937 A1 19950928

DOCDB simple family (application)
US 70459296 A 19960916; AT 95913118 T 19950315; AU 2070895 A 19950315; CA 2186270 A 19950315; CN 95192244 A 19950315; CZ 261396 A 19950315; DE 59501046 T 19950315; DE 9405062 U 19940324; DK 95913118 T 19950315; EE 9600209 A 19950315; EP 9500957 W 19950315; EP 95913118 A 19950315; ES 95913118 T 19950315; FI 963772 A 19960923; GR 980400207 T 19980130; HR P950131 A 19950322; HU 9602608 A 19950315; JP 52435795 A 19950315; KR 19960705268 A 19960923; LV 970264 A 19971219; NO 963993 A 19960923; NZ 28280095 A 19950315; PL 31638995 A 19950315; RU 96120765 A 19950315; SK 116596 A 19950315; TR 29595 A 19950320; UA 96103777 A 19950315