

Title (en)
PLATE RADIATOR

Title (de)
PLATTENRADIATOR

Title (fr)
RADIATEUR PLAT

Publication
EP 0665943 B1 19960925 (DE)

Application
EP 94900002 A 19931029

Priority
• AT 9300167 W 19931029
• AT 215092 A 19921030

Abstract (en)
[origin: WO9410521A1] A plate radiator has at least one radiator plate (1) constituted by a front wall (2) and a rear wall (3) soldered thereto. Mutually adjacent water channels (5) formed in the front wall (2) and in the rear wall (3) are mutually connected by collecting channels (6, 7) formed only in the rear wall (3). Connecting pipes (8, 9) and if required union pipes are soldered by electric resistance pressure welding on the collecting channels (6, 7) formed exclusively in the rear wall (3) of the radiator plate (1). In the connecting points between the pipes (8, 9) and the collecting channels (6, 7), which have a substantially trapezoidal cross section, are laid supporting rings (16) with mutually parallel ring segment-shaped bearing surfaces (17, 18) of different diameters. The bearing surface (17) having a smaller diameter lies on the rear wall (3) and the bearing surface (18) having a larger diameter lies on the front wall (2), in the connection plane between the front wall (2) and the rear wall (3) opposite the first bearing surface (17). The outer surface (22) of the bearing ring (16) approximately follows the slanting sides (23) of the trapezoidal collecting channels (6, 7). The passage (26) of the bearing rings (16) is preferably enlarged in the direction of the bearing surface (18) having the larger diameter.

IPC 1-7
F28F 9/26; F28D 1/03

IPC 8 full level
F28D 1/03 (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP)
F28D 1/0325 (2013.01); **F28F 9/268** (2013.01); **F28D 2021/0035** (2013.01)

Designated contracting state (EPC)
AT CH DE IT LI SE

DOCDB simple family (publication)
WO 9410521 A1 19940511; AT 401575 B 19961025; AT A215092 A 19960215; AT E143480 T1 19961015; CZ 107195 A3 19950816; DE 59304002 D1 19961031; EP 0665943 A1 19950809; EP 0665943 B1 19960925; FI 951676 A0 19950407; FI 951676 A 19950407; HU 9500923 D0 19950529; HU T70596 A 19951030; NO 179728 B 19960826; NO 179728 C 19961204; NO 951632 D0 19950428; NO 951632 L 19950428; SK 53695 A3 19951206

DOCDB simple family (application)
AT 9300167 W 19931029; AT 215092 A 19921030; AT 94900002 T 19931029; CZ 107195 A 19931029; DE 59304002 T 19931029; EP 94900002 A 19931029; FI 951676 A 19950407; HU 9500923 A 19931029; NO 951632 A 19950428; SK 53695 A 19931029