

Title (en)
HEAT EXCHANGER WITH LAMELLA FINS

Publication
EP 0305665 B1 19920415 (DE)

Application
EP 88109600 A 19880616

Priority
DE 3728969 A 19870829

Abstract (en)
[origin: EP0305665A1] In a heat exchanger with lamella fins (1), which are held at a distance from and parallel to one another by shaped collars (8) of the lamella fins (1) and are penetrated in passages (2') of the collars (8) by tubes (9) extending parallel with respect to one another, the internal diameter of the passage (2') being matched in each case to the external diameter of the tube (9) and bearing at least partially against the outer circumference of the tube (9), it is proposed in order to be able to use materials of higher strength without the risk of cracking during deformation while simultaneously exactly maintaining the spacings (5) between the lamella fins (1) that tongues (3) are arranged distributed on the circumference on the penetrated rim of the passage (2'), the free ends of the tongues (9) are bent at an angle to the tube (9) penetrating the passage (2'), and that these bent tongues (9) provide distance bearing surfaces (6) for the adjoining lamella fins (1). <IMAGE>

IPC 1-7
F28F 1/24

IPC 8 full level
F28F 1/24 (2006.01)

CPC (source: EP US)
F28F 1/24 (2013.01 - EP US); **F28F 2240/00** (2013.01 - EP US)

Citation (examination)
GB 1174402 A 19691217 - ENGLISH ELECTRIC CO LTD [GB]

Designated contracting state (EPC)
DE FR IT SE

DOCDB simple family (publication)
EP 0305665 A1 19890308; EP 0305665 B1 19920415; DE 3728969 A1 19890309; DE 3870102 D1 19920521; DE 8717766 U1 19900315; US 5117905 A 19920602

DOCDB simple family (application)
EP 88109600 A 19880616; DE 3728969 A 19870829; DE 3870102 T 19880616; DE 8717766 U 19870829; US 23041388 A 19880810