

Title (en)
Heat exchanger and method of fabricating it.

Title (de)
Wärmetauscher und Verfahren zu seiner Herstellung.

Title (fr)
Echangeur de chaleur et procédé pour sa fabrication.

Publication
EP 0030072 A2 19810610 (EN)

Application
EP 80303431 A 19800929

Priority
JP 15607079 A 19791130

Abstract (en)
In a heat exchanger including a flat tube (3) made of metal, and corrugated fins (5) joined by welding to the tube (3), a multiplicity of projections (3A) are successively formed on one side of the flat tube (3) and arranged in a direction intersecting the axis of the tube (3). The projections (3A), which may be triangular, arcuate, trapezoidal or any other suitable shape in cross section, each extend by a distance less than the thickness of a wall of the tube (3).

IPC 1-7
F28F 1/08; **F28D 1/02**

IPC 8 full level
F28F 1/30 (2006.01); **F28D 1/03** (2006.01); **F28D 1/053** (2006.01); **F28F 1/08** (2006.01); **F28F 1/12** (2006.01)

CPC (source: EP)
F28D 1/0391 (2013.01); **F28D 1/05366** (2013.01); **F28F 1/08** (2013.01); **F28F 1/126** (2013.01); **F28D 2021/0096** (2013.01)

Cited by
DE102008013018A1; DE102004045018B4; DE10127084B4; US5992514A; EP0773419A3; FR3126760A1; DE19758886B4; EP0162827A3; DE4446754A1; US5709028A; US7059399B2; FR2709816A1; EP0650023A1; EP0109393A4; DE102007008535A1; FR2906355A1; EP4206746A1; JP2023099516A; US5251692A; EP0519334A3; WO2007042182A1; US7347254B2; US6892806B2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0030072 A2 19810610; **EP 0030072 A3 19811216**; **EP 0030072 B1 19831123**; AU 521345 B2 19820325; AU 6263980 A 19810625; CA 1133892 A 19821019; DE 3065701 D1 19831229; JP H0118353 B2 19890405; JP S5680698 A 19810702

DOCDB simple family (application)
EP 80303431 A 19800929; AU 6263980 A 19800923; CA 362065 A 19801009; DE 3065701 T 19800929; JP 15607079 A 19791130