

Title (en)
MODULAR HEAT EXCHANGER AND PROCESS FOR ITS MANUFACTURE

Publication
EP 0117805 B1 19880107 (FR)

Application
EP 84400301 A 19840215

Priority
FR 8302740 A 19830217

Abstract (en)
[origin: US4665974A] A heat exchange device comprises at least one zone for the circulation of at least two fluids in heat exchange relationship and input and output means for these fluids, the zone being of modular structure and consisting essentially of a stacking of lattices jointly assembled and each formed of two series of intercrossed walls. The stacking of lattices define spaces for the circulation of the fluids, each lattice, which constitutes a module, being formed in one piece and so designed that, on each face thereof, the edges of the walls of one of the two series are protruding from the plane formed by the edges of the walls of the other series. The lattice stacking is achieved by registering the protruding edges of a series of walls of one face of any lattice with the recessed edges of the corresponding wall series on the opposite face of the adjacent lattice. The protrusion height is equal to the depth of the registering recess in the lattice stacking. Each lattice is advantageously manufactured by moulding of a solidifiable material, particularly by injection molding, when using a light alloy or a thermoplastic material for manufacturing the lattice, or by casting in a mold when using a thermosetting material.

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IPC 8 full level
F28F 3/08 (2006.01); **F28F 7/00** (2006.01); **F28F 21/06** (2006.01)

CPC (source: EP US)
F28F 3/086 (2013.01 - EP US); **F28F 21/065** (2013.01 - EP US); **Y10T 29/4935** (2015.01 - EP US)

Cited by
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EP 0117805 A1 19840905; **EP 0117805 B1 19880107**; DE 3468522 D1 19880211; FR 2541442 A1 19840824; FR 2541442 B1 19880715; JP S59157489 A 19840906; US 4665974 A 19870519

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