

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Échangeur de chaleur

Publication
EP 1956331 A2 20080813 (EN)

Application
EP 08002249 A 20080207

Priority
US 67232607 A 20070207

Abstract (en)
A heat exchanger comprising an inlet chamber (2), an outlet chamber (5), and a plurality of flat tubes (6a-6e) through which the fluid passes and is cooled by ambient air or coolant. The flat tubes (6a-6e) are formed by extrusion (10) and include internal fluid paths (11a-11i) to promote cooling of the fluid passing within. The fluid paths, which are formed at the same time as the tubes, may include flanges (16) to further promote the transfer of heat. Through the use of such extruded tubes with internal fluid paths, the need for a turbulator component commonly assembled into cooling tubes may be eliminated or minimized.

IPC 8 full level
F28D 1/053 (2006.01); **F28F 1/02** (2006.01); **F28F 1/40** (2006.01)

CPC (source: EP US)
F28D 1/05383 (2013.01 - EP US); **F28F 1/022** (2013.01 - EP US); **F28F 1/40** (2013.01 - EP US); **F28D 21/0003** (2013.01 - EP US); **F28D 2021/0082** (2013.01 - EP US); **F28D 2021/0089** (2013.01 - EP US); **F28F 2255/16** (2013.01 - EP US)

Citation (applicant)
US 5036911 A 19910806 - SO ALLEN K [CA], et al

Cited by
CN108286845A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 1956331 A2 20080813; US 2008185130 A1 20080807

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