

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Echangeur de chaleur

Publication
EP 1804015 A1 20070704 (EN)

Application
EP 06026628 A 20061221

Priority
JP 2005376449 A 20051227

Abstract (en)
A heat exchanger including a tube unit in which a plurality of tubes (2) which are disposed in a stacked state, a one side header tank part (4) which is provided at one end side of the tube unit and in which a returning tank chamber (12) is formed, an other side header tank part (5) which is provided at other end side of the tube unit and in which an inlet tank chamber (14) and an outlet tank chamber (15) are formed, an inlet pipe connecting part (18) and an outlet pipe connecting part (19) which are provided on the other side header tank part (5), inclined sections (16) and (17) configured to incline to a longitudinal direction of the tubes (2) being provided at two locations on the other side header tank part (5), the inlet pipe connecting part (18) and the outlet pipe connecting part (19) being provided on the inclined sections (16) and (17), respectively.

IPC 8 full level
F28F 9/04 (2006.01); **F28D 1/053** (2006.01)

CPC (source: EP US)
F28D 1/05375 (2013.01 - EP US); **F28F 9/0212** (2013.01 - EP US); **F28F 9/0224** (2013.01 - EP US); **F28F 9/0246** (2013.01 - EP US); **F28F 9/0263** (2013.01 - EP US); **F28D 2021/0096** (2013.01 - EP US)

Citation (search report)

- [A] JP H03211398 A 19910917 - MATSUSHITA ELECTRIC IND CO LTD
- [A] DE 29719311 U1 19990304 - AUTOKUEHLER GMBH & CO KG [DE]
- [A] EP 0864838 A2 19980916 - BEHR GMBH & CO [DE]

Cited by
CN102679794A; DE102015112379A1; EP2085737A1; US8707715B2

Designated contracting state (EPC)
DE FR GB

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1804015 A1 20070704; CN 100585317 C 20100127; CN 1991285 A 20070704; JP 2007178053 A 20070712; US 2007209787 A1 20070913

DOCDB simple family (application)
EP 06026628 A 20061221; CN 200610156102 A 20061227; JP 2005376449 A 20051227; US 64394306 A 20061222