

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Échangeur de chaleur

Publication
EP 2105694 B1 20190417 (FR)

Application
EP 09155763 A 20090320

Priority
FR 0801633 A 20080326

Abstract (en)
[origin: EP2105694A1] The plate (4) has two large sides (26), two small sides (28) and a peripheral edge (30) that is contained in a plane (P) and forms a connection zone, where the plate is made of pressed metal sheet having thickness lower than or equal to 35 millimeters. A wall (40) perpendicularly extends to the plane containing the peripheral edge. The wall is placed on a part of one of the large sides and on length of one of the large sides. The metal sheet includes a fin and a notch that are placed on the peripheral edge. An independent claim is also included for a flat tube comprising two plates.

IPC 8 full level
F28F 19/00 (2006.01); **F28D 1/03** (2006.01)

CPC (source: EP US)
F28D 1/0333 (2013.01 - EP US); **F28F 19/00** (2013.01 - EP US); **F28D 1/0341** (2013.01 - EP US); **F28F 2225/04** (2013.01 - EP US); **F28F 2265/00** (2013.01 - EP US); **F28F 2280/00** (2013.01 - EP)

Citation (examination)

- US 5186250 A 19930216 - OUCHI WATARU [JP], et al
- FR 2814538 A1 20020329 - DENSO CORP [JP]
- JP 2000130983 A 20000512 - SHOWA ALUMINUM CORP

Cited by
FR2991035A1; FR3060105A1; CN104729330A; WO2013174730A1; WO2018109366A1; WO2013014155A1; US9927182B2

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 MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
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EP 09155763 A 20090320; FR 0801633 A 20080326; JP 2009071338 A 20090324; US 41190409 A 20090326