

Title (en)
LAMINATED HEADER, HEAT EXCHANGER, AND AIR-CONDITIONER

Title (de)
LAMINIERTES KOPFTEIL, WÄRMETAUSCHER UND KLIMAAANLAGE

Title (fr)
COLLECTEUR STRATIFIÉ, ÉCHANGEUR DE CHALEUR ET CLIMATISEUR

Publication
EP 3136039 A4 20180110 (EN)

Application
EP 14890287 A 20140421

Priority
JP 2014061209 W 20140421

Abstract (en)
[origin: EP3136039A1] A laminated header 2 according to the present invention includes a first plate-like body 11 including a plurality of outlet passages 11A, and also includes a second plate-like body 12 attached to the first plate-like body 11 and including at least part of a distribution passage 12A configured to distribute and deliver refrigerant inflowing from an inlet passage 12a to the plurality of outlet passages 11 A. A plurality of outflow passages in a branching passage of the distribution passage 12A include a first outflow passage and a second outflow passage. The number of curves, at which flow separation of the refrigerant is to occur, in a flow path through which the refrigerant inflowing from the inflow passage passes via the first outflow passage before reaching the outlet passages 11 A is smaller than the number of curves in a flow path through which the refrigerant inflowing from the inflow passage passes via the second outflow passage before reaching the outlet passages 11 A. The equivalent diameter of at least part of the first outflow passage is smaller than the equivalent diameter of at least part of the second outflow passage.

IPC 8 full level
F28F 9/02 (2006.01); **F28D 1/047** (2006.01)

CPC (source: EP)
F28D 1/0476 (2013.01); **F28F 9/0221** (2013.01); **F28F 9/0278** (2013.01)

Citation (search report)
• [A] US 6892805 B1 20050517 - VALENSA JEROEN [US]
• See references of WO 2015162678A1

Cited by
US11740026B2; US11629896B2

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3136039 A1 20170301; **EP 3136039 A4 20180110**; **EP 3136039 B1 20191127**; JP 6188926 B2 20170830; JP WO2015162678 A1 20170413; WO 2015162678 A1 20151029

DOCDB simple family (application)
EP 14890287 A 20140421; JP 2014061209 W 20140421; JP 2016514572 A 20140421