

Title (en)
HEAT EXCHANGER AND AIR CONDITIONER

Title (de)
WÄRMETAUSCHER UND KLIMAAANLAGE

Title (fr)
ÉCHANGEUR DE CHALEUR ET CLIMATISEUR

Publication
EP 2657637 A4 20140709 (EN)

Application
EP 12737182 A 20120123

Priority
• JP 2011011248 A 20110121
• JP 2012000401 W 20120123

Abstract (en)
[origin: EP2657637A1] A heat exchanger (30) includes flat tubes (33) and fins (36). The plate-like fins (36) are spaced from one another by a predetermined distance in the direction in which the flat tubes (33) extend. The flat tubes (33) are inserted in pipe insertion portions (46) of the fins (36). In the fins (36), parts of the fins (36) between vertically adjacent ones of the flat tubes (33) are heat transfer parts (70). Each of the heat transfer parts (70) includes protrusions (81-83) and louvers (50, 60). The protrusions (81-83) are located at a windward region of the heat transfer part (70) and formed by making the heat transfer part (70) protrude in an inverted V shape. The louvers (50, 60) are located in a leeward region of the heat transfer part (70) and bend out from the heat transfer part (70).

IPC 8 full level
F28F 1/32 (2006.01)

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Citation (search report)
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• [X] US 2002189799 A1 20021219 - OZAKI TATSUO [JP]
• [X] WO 2008085279 A1 20080717 - PROLIANCE INTERNATIONAL INC [US], et al
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