

Title (en)  
REFRIGERANT EVAPORATOR AND AIR-CONDITIONING DEVICE UTILIZING THE SAME

Title (de)  
KÜHLMITTELVERDAMPFER UND KLIMAANLAGENVORRICHTUNG DAMIT

Title (fr)  
ÉVAPORATEUR DE FRIGORIGÈNE ET DISPOSITIF DE CONDITIONNEMENT D'AIR L'UTILISANT

Publication  
**EP 2336702 A4 20140409 (EN)**

Application  
**EP 09820598 A 20091014**

Priority  
• JP 2009067780 W 20091014  
• JP 2008267478 A 20081016

Abstract (en)  
[origin: EP2336702A1] A refrigerant evaporator (1), in which one of a plurality of blocks is a U-turn block portion (15), includes a plurality of refrigerant-distribution holes (4M, 5M), which communicate between first tank portions (6, 8) and second tank portions (7, 9), provided in the U-turn block portion (15) and in partition walls (4C, 5C) therein that partition the first tank portions (6, 8) and the second tank portions (7, 9) of top and bottom tanks (4, 5). For the refrigerant-distribution holes (4M, 5M), assuming the distance between the plurality of holes as b, the hole length in the hole-row direction as a, and the thickness of the partition wall as t, a/b is set to  $a/b \geq 0.0697 \times t^2 + 0.3274 \times t + 0.4594$ , where t = 1 to 2 mm.

IPC 8 full level  
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Citation (search report)  
• [IY] JP H0626780 A 19940204 - NIPPON DENSO CO  
• [Y] WO 2008038948 A1 20080403 - KOREA DELPHI AUTOMOTIVE SYSTEM [KR], et al  
• [Y] WO 2004059235 A1 20040715 - WINIAMANDO INC [KR], et al  
• See references of WO 2010044420A1

Designated contracting state (EPC)  
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**EP 2336702 A1 20110622; EP 2336702 A4 20140409; EP 2336702 B1 20190703**; JP 2010096423 A 20100430; JP 5408951 B2 20140205; US 2011113823 A1 20110519; WO 2010044420 A1 20100422

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