

Title (en)  
AIR DELIVERY UNIT

Title (de)  
LUFTZUFUHRHEINHEIT

Title (fr)  
UNITÉ DE DISTRIBUTION D'AIR

Publication  
**EP 2169327 A4 20121212 (EN)**

Application  
**EP 08791001 A 20080709**

Priority  
• JP 2008062414 W 20080709  
• JP 2007182874 A 20070712

Abstract (en)  
[origin: EP2169327A1] An air delivery unit includes a casing, an air delivery device arranged in a fan passage in the casing, and a fan guard that is arranged at an air outlet of the casing and has an air blowing surface having a grill structure and a hollow frame wall portion. An air blowing opening is formed in the frame wall portion of the fan guard. This structure allows the air to be blown also from the opening of the frame wall portion of the fan guard. This reduces the amount and the speed of the air blown from the air blowing surface of the fan guard having the grill structure. As a result, rise of static pressure of the air delivery device is suppressed and noise caused by interference between bars of an air blowing grill and the air is reduced.

IPC 8 full level  
**F24F 5/00** (2006.01); **F24F 1/38** (2011.01); **F24F 1/40** (2011.01); **F24F 1/46** (2011.01); **F24F 1/48** (2011.01); **F24F 1/50** (2011.01); **F24F 1/54** (2011.01)

CPC (source: EP US)  
**F24F 1/38** (2013.01 - EP US); **F24F 1/40** (2013.01 - EP US); **F24F 1/46** (2013.01 - EP US); **F24F 1/48** (2013.01 - EP US); **F24F 1/50** (2013.01 - EP US); **F24F 1/54** (2013.01 - EP US)

Citation (search report)  
• [X] JP 2006077585 A 20060323 - MITSUBISHI ELECTRIC CORP  
• [X] JP H11201503 A 19990730 - MATSUSHITA REFRIGERATION  
• [X] JP 2006153453 A 20060615 - MITSUBISHI ELECTRIC CORP  
• [X] JP H0399135 A 19910424 - TOSHIBA CORP  
• [X] JP 2003139353 A 20030514 - SAMSUNG ELECTRONICS CO LTD  
• [XI] US 5501088 A 19960326 - YATES JAN B [US]  
• See references of WO 2009008453A1

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EP3677846A1

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2169327 A1 20100331; EP 2169327 A4 20121212; EP 2169327 B1 20170906**; CN 101688677 A 20100331; ES 2642142 T3 20171115; JP 2009019822 A 20090129; JP 4380744 B2 20091209; US 2011000653 A1 20110106; WO 2009008453 A1 20090115

DOCDB simple family (application)  
**EP 08791001 A 20080709**; CN 200880023977 A 20080709; ES 08791001 T 20080709; JP 2007182874 A 20070712; JP 2008062414 W 20080709; US 66748208 A 20080709