

Title (en)
AIR BLOWING UNIT FOR VEHICLE

Title (de)
LUFTBLASEINHEIT FÜR EIN FAHRZEUG

Title (fr)
UNITÉ DE VENTILATION POUR VÉHICULE

Publication
EP 2589818 A1 20130508 (EN)

Application
EP 11786282 A 20110510

Priority
• JP 2010120382 A 20100526
• JP 2011002584 W 20110510

Abstract (en)
[Problem] Provided is an air blowing unit for a vehicle which, even when a backflow prevention means which prevents the flow of air which flows back through a gap formed between a bottom surface of an impeller and an upper surface of a motor flange is adopted, optimally maintains a size of the gap thus suppressing noises and the collection of moisture and, can suitably boost a pressure of air in a scroll case portion. [Means for Resolution] With respect to a case 4 of an air blowing unit 1, a projecting portion 20 is formed in a projecting manner on an inner side of a second wall portion 17 on a side opposite to a first wall portion 16 where an air suction port 5 is formed as an air backflow prevention means. The projecting portion 20 is positioned outside an impeller 2 in the radial direction with a predetermined gap between a radial outer end of the impeller 2 and the projecting portion 20. Further, a surface of the projecting portion 20 on a side opposite to the impeller 2 forms an inclined surface 20a which is arranged approximately parallel to the flow of air 50 which moves to the inside of an air blowing passage 15 from the impeller 2.

IPC 8 full level
F04D 29/44 (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F04D 17/16 (2013.01 - US); **F04D 29/162** (2013.01 - EP US)

Citation (search report)
See references of WO 2011148578A1

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 2589818 A1 20130508; JP 5775515 B2 20150909; JP WO2011148578 A1 20130725; US 2013121818 A1 20130516;
WO 2011148578 A1 20111201

DOCDB simple family (application)
EP 11786282 A 20110510; JP 2011002584 W 20110510; JP 2012517113 A 20110510; US 201113699437 A 20110510