

Title (en)
CENTRIFUGAL FAN AND AIR CONDITIONING DEVICE

Title (de)
ZENTRIFUGALLÜFTER UND KLIMAANLAGE

Title (fr)
VENTILATEUR CENTRIFUGE ET DISPOSITIF DE CLIMATISATION

Publication
EP 3101280 A4 20171122 (EN)

Application
EP 14880164 A 20140127

Priority
JP 2014051641 W 20140127

Abstract (en)
[origin: EP3101280A1] Provided is a centrifugal fan including a main plate 2, a shroud 3 having a fan inlet port 3a, and a plurality of vanes 4 provided between the main plate and the shroud, wherein the shroud has a shroud main body section 11 and an extension part 9, the extension part is a portion extending from a shroud outer peripheral end section 8 of the shroud main body section to an upstream side when viewed in a direction parallel to an axis of rotation 5, a radially outside surface of the shroud main body section and a radially inside surface of the extension part constitute a concave rounded surface 30, and the direction of recess of the concave rounded surface is towards the upstream side when viewed in the direction parallel to the axis of rotation.

IPC 8 full level
F04D 25/12 (2006.01); **F04D 29/16** (2006.01); **F04D 29/28** (2006.01); **F04D 29/42** (2006.01); **F24F 1/00** (2011.01)

CPC (source: EP)
F04D 25/12 (2013.01); **F04D 29/162** (2013.01); **F04D 29/281** (2013.01); **F04D 29/4213** (2013.01); **F24F 1/0022** (2013.01); **F24F 1/0047** (2019.01); **F05D 2250/52** (2013.01)

Citation (search report)

- [XAI] DE 4136293 A1 19920507 - PAPST MOTOREN GMBH & CO KG [DE]
- [IA] US 6224335 B1 20010501 - PARISI MARK JOSEPH [US], et al
- [A] JP 2011196572 A 20111006 - MITSUBISHI ELECTRIC CORP
- [A] JP 2007100548 A 20070419 - DAIKIN IND LTD
- [XAI] US 6156090 A 20001205 - ISHIKAWA TOMINORI [JP], et al
- [E] KR 20140073128 A 20140616 - HALLA VISTEON CLIMATE CONTROL [KR]
- See references of WO 2015111210A1

Cited by
EP3896289A1

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 3101280 A1 20161207; **EP 3101280 A4 20171122**; **EP 3101280 B1 20190227**; JP 6203294 B2 20170927; JP WO2015111210 A1 20170323; WO 2015111210 A1 20150730

DOCDB simple family (application)
EP 14880164 A 20140127; JP 2014051641 W 20140127; JP 2015558703 A 20140127