

Title (en)
Turbofan

Title (de)
Turbolüfter

Title (fr)
Turboventilateur

Publication
EP 2792886 A3 20150617 (EN)

Application
EP 14152662 A 20140127

Priority
KR 20130043387 A 20130419

Abstract (en)
[origin: EP2792886A2] Provided is a turbofan (200). The turbofan (200) comprises a main plate (115) rotating by a fan motor (120) providing power; and a plurality of blades (400) having one ends connected to the main plate (115), the plurality of blades (400) being disposed along a circumferential direction on the main plate (115), wherein each of the plurality of blades (400) comprises: a first curved part (421) curved in one direction with respect to an extension part (500); and a second curved part (422) curved in the other direction with respect to the extension part (500), wherein a plurality of projections (423) protruding in one direction from the one end of the blade (400) and a plurality of grooves (424) protruding in the other direction are alternately disposed on the first (421) and second (422) curved parts.

IPC 8 full level
F04D 29/28 (2006.01); **F04D 29/30** (2006.01); **F04D 29/66** (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP KR US)
F04D 29/281 (2013.01 - EP US); **F04D 29/282** (2013.01 - EP US); **F04D 29/30** (2013.01 - EP KR US); **F04D 29/666** (2013.01 - EP US); **F04D 29/681** (2013.01 - EP US); **F24F 1/00** (2013.01 - KR); **F05D 2240/304** (2013.01 - EP US)

Citation (search report)

- [X] EP 1688623 A1 20060809 - DAIKIN IND LTD [JP]
- [X] US 2012328420 A1 20121227 - IKEDA TAKASHI [JP], et al
- [X] EP 2230407 A1 20100922 - DAIKIN IND LTD [JP]
- [X] EP 0942175 A1 19990915 - DAIKIN IND LTD [JP]
- [X] EP 1750015 A2 20070207 - MITSUBISHI HEAVY IND LTD [JP]
- [I] WO 2012042245 A1 20120405 - IMP INNOVATIONS LTD [GB], et al
- [I] GB 2105791 A 19830330 - GEBHARDT GMBH WILHELM [DE]
- [X] JP 2008223760 A 20080925 - DAIKIN IND LTD

Cited by
EP3663588A1; US11353041B2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2792886 A2 20141022; EP 2792886 A3 20150617; EP 2792886 B1 20170802; KR 20140125522 A 20141029; US 2014314575 A1 20141023

DOCDB simple family (application)
EP 14152662 A 20140127; KR 20130043387 A 20130419; US 201314145180 A 20131231