

Title (en)
AXIAL FAN

Title (de)
AXIALVENTILATOR

Title (fr)
VENTILATEUR AXIAL

Publication
EP 3183459 B1 20230802 (DE)

Application
EP 15757450 A 20150813

Priority
• DE 102014111767 A 20140818
• EP 2015068646 W 20150813

Abstract (en)
[origin: WO2016026762A1] The invention relates to an axial fan for use with a wall ring plate comprising a housing having an inlet region and a rotor, said rotor having an increased rotor diameter compared to a standardised rotor diameter, wherein, on the inlet side, the inlet region has a tapered section that narrows in an arched manner in a cross-sectional view from an inlet diameter to a wall ring diameter, the axial width and radial length of which tapered section are formed in a predetermined ratio.

IPC 8 full level
F04D 19/00 (2006.01); **F04D 25/06** (2006.01); **F04D 29/32** (2006.01); **F04D 29/52** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F04D 19/002 (2013.01 - EP US); **F04D 25/064** (2013.01 - US); **F04D 29/325** (2013.01 - EP US); **F04D 29/384** (2013.01 - US); **F04D 29/522** (2013.01 - EP US); **F04D 29/541** (2013.01 - US); **F04D 29/547** (2013.01 - EP US); **F04D 29/644** (2013.01 - US); **F04D 29/667** (2013.01 - EP US)

Citation (examination)
US 7166940 B2 20070123 - EWERT ANDREAS [DE], et al

Citation (opposition)
Opponent : ZIEHL-ABEGG SE
• WO 2008143603 A1 20081127 - CARRIER CORP [US], et al
• FR 2728028 A1 19960614 - SARDOU MAX [FR]
• DE 69024820 T2 19960523 - SCOATES WILLIAM D [US], et al
• DE 69105703 T2 19951019 - CARRIER CORP [US]
• WO 2012084725 A1 20120628 - EBM PAPST MULFINGEN GMBH & CO [DE], et al
• US 7166940 B2 20070123 - EWERT ANDREAS [DE], et al
• US 7839038 B2 20101123 - SIMOFI-ILYES ATTILA [CA], et al
• US 4657483 A 19870414 - BEDE JAMES D [US]
• EP 0143235 B2 199111023
• US 6045327 A 20000404 - AMR YEHA M [US]
• US 5215438 A 19930601 - CHOU RUDY S [US], et al
• US 8622695 B2 20140107 - DECKER JOHN J [US], et al

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)
DE 102014111767 A1 20160218; CN 207080384 U 20180309; DE 202015009320 U1 20170208; EP 3183459 A1 20170628; EP 3183459 B1 20230802; HU E063340 T2 20240128; SI 3183459 T1 20231130; US 11365741 B2 20220621; US 2017152854 A1 20170601; WO 2016026762 A1 20160225

DOCDB simple family (application)
DE 102014111767 A 20140818; CN 201590000721 U 20150813; DE 202015009320 U 20150813; EP 15757450 A 20150813; EP 2015068646 W 20150813; HU E15757450 A 20150813; SI 201531970 T 20150813; US 201515325782 A 20150813