

Title (en)
A MERIDIONAL FAN

Title (de)
MERIDIONALER LÜFTER

Title (fr)
VENTILATEUR MÉRIDIONAL

Publication
EP 2242932 A1 20101027 (EN)

Application
EP 09701751 A 20090113

Priority
• GB 2009000088 W 20090113
• GB 0800582 A 20080114

Abstract (en)
[origin: GB2452104A] An axial fan rotatably mounted in a cylindrical duct ring 3 has a plurality of fan blades 2 with peripheral blade tips 4 describing, in operation, a circular path adjacent the duct ring 3. The blade tips 4 each have a leading edge 6 in the axial direction, a trailing edge 9 and a tip outer surface, at least one of the edges 6,9 and/or the outer surface having a non-uniform profile for influencing the flow of air over the said tip outer surface. The non-uniform profile may take the form of undulations, grooves or steps. A flange 5 may be provided at the blade tip.

IPC 8 full level
F04D 29/38 (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP GB)
F04D 29/384 (2013.01 - EP GB); **F04D 29/681** (2013.01 - EP)

Cited by
EP3168481A4; US10422349B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
GB 0800582 D0 20080220; GB 2452104 A 20090225; GB 2452104 B 20090722; EP 2242932 A1 20101027; EP 2242932 B1 20170712; ES 2636989 T3 20171010; WO 2009090376 A1 20090723

DOCDB simple family (application)
GB 0800582 A 20080114; EP 09701751 A 20090113; ES 09701751 T 20090113; GB 2009000088 W 20090113