

Title (en)
FAN WHEEL OF AN AXIAL FAN

Title (de)
LÜFTERRAD EINES AXIALLÜFTERS

Title (fr)
ROUE DE VENTILATEUR POUR VENTILATEUR AXIAL

Publication
EP 3114354 B1 20200108 (DE)

Application
EP 15706434 A 20150219

Priority
• DE 102014204043 A 20140305
• EP 2015053537 W 20150219

Abstract (en)
[origin: WO2015132077A1] The invention relates to a fan wheel (1) for an axial fan (2) for generating a cooling air flow (38) through a heat exchanger (36) of a vehicle, having a hub (3) and a plurality of blades (4), each connected to the hub (3) on a root (5), wherein the blades (4) each have a blade body (7) which has a front side (9) on a suction side (8) of the fan wheel (1) and a rear side (11) on a pressure side (10) of the fan wheel (1) and which has a leading edge (12) and a trailing edge (13), wherein at least one of the blades (4) has a ramp (14) on the pressure side (10) of the fan wheel (1) which protrudes from the rear side (11) of the blade body (7) and which extends from a starting region (15), in which the blade root (5) and the leading edge (12) of the respective blade (4) are located, in the direction of the leading edge (13) and a blade tip (6) of the respective blade (4). Improved efficiency results if the ramp (14) extends over more than 50% of a blade length (16) measured radially from the blade root (5) to the blade tip (6).

IPC 8 full level
F04D 29/32 (2006.01); **F04D 29/38** (2006.01)

CPC (source: EP)
F04D 29/329 (2013.01); **F04D 29/384** (2013.01)

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 102014204043 A1 20150910; EP 3114354 A1 20170111; EP 3114354 B1 20200108; WO 2015132077 A1 20150911

DOCDB simple family (application)
DE 102014204043 A 20140305; EP 15706434 A 20150219; EP 2015053537 W 20150219