

Title (en)

SIDE CHANNEL BLOWER, IN PARTICULAR SECONDARY AIR BLOWER FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

SEITENKANALGEBLÄSE, INSBESONDERE SEKUNDÄRLUFTGEBLÄSE FÜR EINE VERBRENNUNGSKRAFTMASCHINE

Title (fr)

VENTILATEUR À CANAL LATÉRAL, EN PARTICULIER TURBINE SECONDAIRE POUR UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2342464 B1 20180328 (DE)

Application

EP 09736401 A 20091007

Priority

- EP 2009062997 W 20091007
- DE 102008056106 A 20081106

Abstract (en)

[origin: WO2010052082A1] Differently designed side channel blowers with means for noise reduction are known. Aside from noise reduction, there is also a need for a larger maximal conveying volume whilst retaining the same size. According to the invention, a side channel blower having a cross-sectional reducer (52; 58) which reduces the depth of the feed channel (12; 14) over a predefined section, is proposed, characterized in that the radial extension of the cross-sectional reducer (52; 58) increases continuously from the inlet (6) towards the outlet (20) and the conveying channel (12; 14) comprises in the cross section two steps to successive wall surfaces (54; 61) of the conveying channel (12; 14). In this way, the maximal conveying volume stream can be increased whilst reducing the pressure pulsation and noise level.

IPC 8 full level

F04D 23/00 (2006.01); **F04D 29/40** (2006.01)

CPC (source: EP)

F04D 23/008 (2013.01); **F04D 29/403** (2013.01)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010052082 A1 20100514; DE 102008056106 A1 20100520; DE 102008056106 B4 20110217; EP 2342464 A1 20110713; EP 2342464 B1 20180328

DOCDB simple family (application)

EP 2009062997 W 20091007; DE 102008056106 A 20081106; EP 09736401 A 20091007