

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 A1 20110713 (DE)**

Application

**EP 09736401 A 20091007**

Priority

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- 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

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