

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)
SOUFFLANTE DE CANAL LATÉRAL, EN PARTICULIER SOUFFLANTE D'AIR SECONDAIRE POUR UNE MACHINE À COMBUSTION INTERNE

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Application
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Abstract (en)
[origin: WO2010086210A1] Side channel blowers comprising devices for minimizing noise emissions are known. However, said side channel blowers often are insufficient and limit the volumetric flow to be conveyed. Therefore, a side channel blower is proposed, wherein the at least one conveying channel (12; 14) leads to the outlet (20) substantially in the tangential direction, wherein an outlet opening (58) in the radially bounding wall (33) extends in the direction of rotation of the rotor (4) to an outlet edge (62), which protrudes into the interruption area (28; 30) of the at least one conveying channel (12; 14), wherein an opening (60) is formed on the radially bounding wall (33) directly behind the outlet opening (58) in the direction of rotation of the rotor (4), reducing the extension of the interruption area (32) on the radially bounding wall (33) in the circumferential direction. By means of such an embodiment, a further noise reduction is achieved, and the volumetric flow conveyed is increased.

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