

Title (en)

FLOW COMPRESSOR, IN PARTICULAR FOR THE SUPERCHARGING OF AN INTERNAL COMBUSTION ENGINE

Title (de)

STRÖMUNGSVERDICHTER, INSBESONDERE ZUR AUFLADUNG EINES VERBRENNUNGSMOTORS

Title (fr)

TURBOCOMPRESSEUR, DESTINÉ NOTAMMENT À LA SURALIMENTATION D'UN MOTEUR À COMBUSTION INTERNE

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Application

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Priority

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Abstract (en)

[origin: WO2012146344A1] A flow compressor, in particular for the supercharging of an internal combustion engine, having a compressor housing; having a compressor rotor which is rotatably mounted in the compressor housing; having an inflow duct for the medium to be compressed, which inflow duct extends in the flow direction of the medium to be compressed from a compressor inlet to the compressor rotor; having a recirculation duct for the medium to be compressed, which recirculation duct branches off from the inflow duct in the region of the compressor-rotor-side end of the inflow duct and opens out in the inflow duct in the region of the compressor-inlet-side end; having a sound shielding ring which is inserted in the inflow duct and/or in the recirculation duct in the region of the compressor-inlet-side end in order to shield against sound waves of the medium to be compressed which flows back via the recirculation duct; wherein the sound shielding ring is inserted in a positively locking manner in the compressor housing by means of a snap-action connection. The invention is characterized in that - the sound shielding ring has a multiplicity of detent projections which engage into an undercut of the compressor housing; - the sound shielding ring has a multiplicity of tongues which are connected to a circumferentially encircling annular main body and which are provided with the detent projections, and the tongues project from the compressor-inlet-side end into the recirculation duct in the direction of the compressor rotor.

IPC 8 full level

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CPC (source: EP)

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