

Title (en)

TUBULAR ACOUSTIC INSULATING ELEMENT

Title (de)

ROHRFÖRMIGES AKUSTISCHES DÄMMELEMENT

Title (fr)

ÉLÉMENT D ISOLATION ACOUSTIQUE TUBULAIRE

Publication

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Application

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Abstract (en)

[origin: WO2010149723A1] The invention relates to an exhaust system (4) composed of a plurality of components for an internal combustion engine (2) for connecting to a manifold (3). The exhaust system (3) comprises at least one first section (41), which is provided indirectly or directly after the manifold (3) in the flow direction, and a second section (42), which is directly adjacent thereto in the flow direction, wherein the two sections (41, 42) are connected to each other by a mechanical decoupling element (40). The resonant oscillations in the range above 600 Hz are to be attenuated in the exhaust system (4) by more than 15 dB and, at the same time, the exhaust system (4) is to be sufficiently rigid and self-supporting and designed to be lastingly gas-tight. For this purpose, a single-walled and self-supporting acoustic insulating element (1) is integrated in the exhaust system (3) in the flow direction upstream of, or in, the first section (41), wherein the acoustic insulating element (1) comprises at least one inner connecting piece (10) and at least one outer connecting piece (15), which is offset toward the outside from a central line (14) in the radial direction, and a compressed central part (12) is provided, which is disposed between the two connecting pieces (10, 15) and connects the two connecting pieces (10, 15) and which forms a stop (120) having a U- or S-shaped cross-section.

IPC 8 full level

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