

Title (en)
MIXER IN AN EXHAUST GAS SYSTEM

Title (de)
MISCHER IN EINEM ABGASSYSTEM

Title (fr)
MÉLANGEUR DANS UN SYSTÈME D'ÉCHAPPEMENT

Publication
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Application
EP 16726854 A 20160530

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Abstract (en)
[origin: WO2016193221A1] The invention relates to a static mixer (1) for use in an exhaust gas system of an internal combustion engine, and for mixing an additive injected into an exhaust gas system. The mixer (1) consists of a tubular housing (2) that is circumferential around a central axis X. The housing (2) has, at one end in the direction of the central axis X, an inlet opening (31) and, at the opposite end, an outlet opening (32), wherein the inlet opening (31) serves to receive additive injected into the exhaust gas system. The housing (2) is closed in the circumferential direction about the central axis X, in the region of the inlet opening (31) and in the region of the outlet opening (32), by a rim. The static mixer (1) is designed to generate little back-pressure, to ensure rapid and complete reductant preparation, and simultaneously not to be sensitive with respect to manufacturing tolerances. To that end, the housing (2) forms, relative to an XY plane oriented parallel to the central axis X of the mixer (1) and perpendicular to a main flow direction S, a tubular segment (21) upstream of the XY plane, having multiple openings (4) oriented in the radial direction with respect to the central axis X as a perforation, and forms, downstream of the XY plane, a tubular segment (22) having a cutout (5) in which there are arranged multiple baffles (51).

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