

Title (en)
STATIC MIXER COMPRISING AT LEAST ONE COUPLE OF BLADES FOR GENERATING AN EDDY FLOW IN A DUCT

Title (de)
STATISCHER MISCHER AUFWEISEND MINDESTENS EIN FLÜGELPAAR ZUR ERZEUGUNG EINER WIRBELSTRÖMUNG IN EINEM KANAL

Title (fr)
MÉLANGEUR STATIQUE COMPRENANT AU MOINS UNE PAIRE DE PALES POUR LA CRÉATION D'UN ÉCOULEMENT TOURBILLONNAIRE DANS UN CONDUIT

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Application
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Abstract (en)
[origin: WO2008000616A2] Disclosed is a static mixer (1) comprising at least one couple of blades (2; 2a, 2b) for generating an angular momentum (300) in the direction (30) of a duct flow (3). Leading edges of the blades located on the inflow side extend perpendicular to the duct flow and parallel to a height of the duct (10). Flow-impinged surfaces that are arranged downstream of the leading edges are bent in a concave manner and in opposite directions. Each blade (2a, 2b) is embodied as an aerodynamically designed member encompassing a front wall (20), a convex sidewall (21) and a concave sidewall (22). The front wall has a convex shape or a shape of a flow-impinged edge. Particularly the blade cross-sections extending perpendicular to the sidewalls have shapes similar to cross-sections of aircraft wings.

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