Title (en)

MIXER ELEMENT FOR A FLUID THAT IS GUIDED IN A PIPE

Title (de)

MISCHELEMENT FÜR EIN IN EINEM ROHR GEFÜHRTES FLUID

Title (fr)

ELEMENT MELANGEUR POUR UN FLUIDE GUIDE DANS UN TUYAU

Publication

**EP 1204816 A1 20020515 (DE)**

Application

**EP 00951497 A 20000811**

Priority

- DE 19938840 A 19990817
- EP 0007831 W 20000811

Abstract (en)

[origin: WO0112960A1] The invention relates to a mixer element (1) for a fluid that is guided in a pipe (2), especially a mixer element that is used in the exhaust pipe of an internal combustion engine. Parts of the outer current A that is adjacent to the inner surface (3) of the pipe (2) are guided towards the interior by means of an outer guide section (4) and at the same time and in an approximately common plane parts of the inner current I are guided towards the exterior by means of an inner guide section (5). The use of the entire inner surface (3) of the pipe (2) for the purpose of cooling is preferably guaranteed by at least one opening (7) that is provided in the outer guide surface (4). The invention provides a simple means for obtaining a homogeneous temperature distribution and good cooling of a fluid that is guided in a pipe. The inventive mixer element (1) is especially distinguished from known mixer elements by its compact construction.

IPC 1-7

**F01N 3/28**; B01F 5/06

IPC 8 full level

**F01N 13/08** (2010.01); **B01D 53/86** (2006.01); **B01F 5/06** (2006.01); **F01N 3/24** (2006.01); **F01N 3/28** (2006.01); **F15D 1/02** (2006.01); **F28F 13/12** (2006.01); F01N 3/08 (2006.01)

CPC (source: EP US)

**B01F 25/4315** (2022.01 - EP US); **B01F 25/43151** (2022.01 - EP US); **B01F 25/4317** (2022.01 - EP US); **F01N 3/0842** (2013.01 - EP US); **F01N 3/2892** (2013.01 - EP US); F01N 2240/20 (2013.01 - EP US)

Citation (search report)

See references of WO 0112960A1

Designated contracting state (EPC)

AT BE CH CY DE ES FR GB IT LI

DOCDB simple family (publication)

**WO 0112960 A1 20010222**; AU 6441300 A 20010313; CN 1148511 C 20040505; CN 1370255 A 20020918; DE 19938840 A1 20010315; EP 1204816 A1 20020515; JP 2003507688 A 20030225; US 2002110047 A1 20020815

DOCDB simple family (application)

**EP 0007831 W 20000811**; AU 6441300 A 20000811; CN 00811717 A 20000811; DE 19938840 A 19990817; EP 00951497 A 20000811; JP 2001517034 A 20000811; US 7814702 A 20020219