

Title (en)

Static mixing element and static mixer and use thereof

Title (de)

Statisches Mischelement und Statikmischer sowie Verwendung derselben

Title (fr)

Élément de mélange statique et mélangeur statique ainsi que leur application

Publication

**EP 1149626 B1 20050720 (DE)**

Application

**EP 01109478 A 20010425**

Priority

CH 8302000 A 20000427

Abstract (en)

[origin: EP1149626A1] Static mixing element (1) comprises a tubular mixer channel (2) with an inner wall forming an outer limit of the cross-section through which material is able to flow; and mixing paddles (4a, 4b). At least two of the paddles are arranged axially behind each other in the mixer channel. At least one mixing paddle located in the flow direction is connected to the inner wall to transfer forces acting in the axial direction from the mixing paddle to the mixer channel. AN Independent claim is also included for a mixer paddle element (3) for arranging in a tubular mixer channel. Preferred Features: Additional elements are also present for effecting form closure between the mixing paddles and the mixer channel.

IPC 1-7

**B01F 5/06**

IPC 8 full level

**B01F 5/06** (2006.01)

CPC (source: EP US)

**B01F 25/43151** (2022.01 - EP US); **B01F 25/431971** (2022.01 - EP); **B01F 25/431974** (2022.01 - EP); **B01F 25/431971** (2022.01 - US); **B01F 25/431974** (2022.01 - US); **B01F 2101/2805** (2022.01 - EP US)

Cited by

DE102004060621B4; EP1710012A3; CN102883818A; EP3338882A1; CH713229A1; US9539594B2; EP3446776A3; US10722853B2

Designated contracting state (EPC)

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**EP 1149626 A1 20011031**; **EP 1149626 B1 20050720**; AT E299750 T1 20050815; DE 50106752 D1 20050825; ES 2244514 T3 20051216; US 2002001257 A1 20020103; US 6585407 B2 20030701

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