

Title (en)
MIXER

Title (de)
MISCHER

Title (fr)
MÉLANGEUR

Publication
EP 3696383 B1 20211020 (DE)

Application
EP 20156882 A 20200212

Priority
DE 102019103780 A 20190214

Abstract (en)
[origin: US2020263590A1] A mixer for mixing an exhaust gas flow with a fluid injected into an exhaust gas line comprises means for generating a swirl effecting a rotating flow and means for a radial displacement in the exhaust gas flow admixed with the fluid and flowing axially through the mixer. In this respect, the swirl generation means and the radial displacement means are arranged and designed such that, viewed over the cross-section of the mixer perpendicular to the axial exhaust gas flow, at least two separate swirl regions result which are built up via tangentially acting vane-like swirl elements and at least one respective radial displacement region results which is arranged between two separate swirl regions.

IPC 8 full level
F01N 3/28 (2006.01); **B01F 23/10** (2022.01)

CPC (source: CN EP US)
B01F 23/10 (2022.01 - CN); **B01F 23/213** (2022.01 - EP US); **B01F 25/00** (2022.01 - CN); **B01F 25/10** (2022.01 - CN US); **B01F 25/4231** (2022.01 - US); **B01F 25/4315** (2022.01 - CN EP US); **B01F 25/431974** (2022.01 - EP); **F01N 3/2066** (2013.01 - US); **F01N 3/2892** (2013.01 - EP US); **B01F 2025/913** (2022.01 - EP); **F01N 2240/20** (2013.01 - EP); **F01N 2610/02** (2013.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3696383 A1 20200819; **EP 3696383 B1 20211020**; CN 111558306 A 20200821; DE 102019103780 A1 20200820; DE 102019103780 B4 20240125; ES 2897513 T3 20220301; US 11781462 B2 20231010; US 2020263590 A1 20200820

DOCDB simple family (application)
EP 20156882 A 20200212; CN 202010087958 A 20200212; DE 102019103780 A 20190214; ES 20156882 T 20200212; US 202016791041 A 20200214