

Title (en)

STATIC MIXER, DISPENSING ASSEMBLY AND METHOD OF DISPENSING MULTI-COMPONENT MATERIAL FROM A DISPENSING ASSEMBLY

Title (de)

STATIKMISCHER, AUSGABEANORDNUNG UND VERFAHREN ZUR AUSGABE VON MEHRKOMPONENTIGEM MATERIAL AUS EINER AUSGABEANORDNUNG

Title (fr)

MÉLANGEUR STATIQUE, ENSEMBLE DE DISTRIBUTION ET PROCÉDÉ DE DISTRIBUTION D'UN MATÉRIAU À COMPOSANTS MULTIPLES D'UN ENSEMBLE DE DISTRIBUTION

Publication

EP 3485967 A1 20190522 (EN)

Application

EP 17198876 A 20171027

Priority

EP 17198876 A 20171027

Abstract (en)

The present application relates to a static mixer (2) for mixing a multi-component material, the static mixer (2) comprising: a plurality of first mixing segments (12); and at least one second mixing segment (29), wherein the at least one second mixing segment (29) is arranged between two first mixing segments (12) along a longitudinal axis of the static mixer (2), wherein each of the plurality of first mixing segments (12) comprises at least three elongate inlets (13) arranged at least substantially in parallel to one another and at least three elongate outlets (14) arranged at least substantially in parallel to one another, with a respective elongate inlet (13) being connected to a respective elongate outlet (14) via a respective passage, wherein the elongate outlets (14) are arranged such that an elongate extent thereof is rotated by at least 45°, preferably by at least substantially 90°, about the longitudinal axis (A) with respect to an elongate extent of the elongate inlets (13); wherein at least some of the elongate inlets (13) and of the elongate outlets (14) are configured and arranged to deflect respective part flows of the multi-component material (M, M') from an elongate inlet (13) arranged at an inner region of the static mixer (2) to an elongate outlet (14) arranged at an outer region of the static mixer (2) and from an elongate inlet (13) arranged at the outer region of the static mixer (2) to an elongate outlet (14) arranged at an inner region of the static mixer (2); and wherein the at least one second mixing segment (29) is arranged and configured between said two first mixing segments (12) to deflect said respective part flows of the multi-component material (M, M') in a manner different to the deflection of part flows achieved by the first mixing segment (12).

IPC 8 full level

B01F 5/06 (2006.01); **B01F 13/00** (2006.01)

CPC (source: EP)

B01F 25/4321 (2022.01); **B01F 33/50112** (2022.01)

Citation (search report)

- [XAI] US 3195865 A 19650720 - HARDER RICHARD E
- [A] US 3406947 A 19681022 - HARDER RICHARD E

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3485967 A1 20190522; EP 3687673 A1 20200805; WO 2019081702 A1 20190502

DOCDB simple family (application)

EP 17198876 A 20171027; EP 18789440 A 20181026; EP 2018079398 W 20181026