

Title (en)
STATIC SPRAY MIXER

Title (de)
STATISCHER SPRÜHMISCHER

Title (fr)
MÉLANGEUR DE PULVÉRISATION STATIQUE

Publication
EP 2595759 B1 20150318 (DE)

Application
EP 11718397 A 20110509

Priority
• EP 10170139 A 20100720
• EP 2011057378 W 20110509
• EP 11718397 A 20110509

Abstract (en)
[origin: WO2012010337A1] The invention relates to a static spray mixer for mixing and spraying at least two flowable components, said spray mixer comprising a tubular mixer housing (2) extending in the direction of a longitudinal axis (A) to a distal end (21) comprising an outlet (22) for the components, at least one mixing element (3) arranged in the mixer housing (2) and used to mix the components together, and an atomising collet (4) that has an inner surface surrounding the end region of the mixer housing (2). The atomising collet (4) has an inlet channel (41) for a pressurised atomising medium. A plurality of grooves (5) extending respectively to the distal end (21) is provided in the outer surface of the mixer housing (2) or in the inner surface of the atomising collet (4), said grooves (5) forming separate flow channels (51) between the atomising collet (4) and the mixer housing (2), through which the atomising medium can flow from the inlet channel (41) of the atomising collet (4) to the distal end (21) of the mixer housing (2). The inlet channel (41) is arranged asymmetrically in relation to the longitudinal axis (A).

IPC 8 full level
B05B 7/08 (2006.01); **B01F 23/47** (2022.01); **B05B 7/04** (2006.01); **B05B 7/10** (2006.01); **B05C 17/005** (2006.01)

CPC (source: CN EP KR US)
B01F 25/40 (2022.01 - KR); **B01F 25/431** (2022.01 - CN); **B01F 25/4316** (2022.01 - CN); **B01F 25/4321** (2022.01 - EP US); **B01F 25/72** (2022.01 - CN); **B05B 7/04** (2013.01 - CN KR US); **B05B 7/08** (2013.01 - KR); **B05B 7/0861** (2013.01 - EP US); **B05C 17/005** (2013.01 - KR); **B05B 7/0408** (2013.01 - EP US); **B05B 7/10** (2013.01 - EP US); **B05C 17/00509** (2013.01 - EP US); **B05C 17/00513** (2013.01 - EP US); **B05C 17/00553** (2013.01 - EP 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)
WO 2012010337 A1 20120126; BR 112012031013 A2 20161025; BR 112012031013 B1 20210309; CA 2805940 A1 20120126; CA 2805940 C 20180213; CN 103140294 A 20130605; CN 103140294 B 20171017; CN 107376686 A 20171124; CN 107376686 B 20210209; DK 2595759 T3 20150608; EP 2595759 A1 20130529; EP 2595759 B1 20150318; ES 2533589 T3 20150413; JP 2013535318 A 20130912; JP 6033773 B2 20161130; KR 101912726 B1 20181029; KR 20130092547 A 20130820; MX 2013000683 A 20130227; RU 2013107372 A 20140827; RU 2570005 C2 20151210; RU 2570005 C9 20160520; TW 201233447 A 20120816; TW I554333 B 20161021; US 10265713 B2 20190423; US 2013112778 A1 20130509; US 2018001332 A1 20180104; US 9770728 B2 20170926

DOCDB simple family (application)
EP 2011057378 W 20110509; BR 112012031013 A 20110509; CA 2805940 A 20110509; CN 201180035373 A 20110509; CN 201710832962 A 20110509; DK 11718397 T 20110509; EP 11718397 A 20110509; ES 11718397 T 20110509; JP 2013520014 A 20110509; KR 20137001245 A 20110509; MX 2013000683 A 20110509; RU 2013107372 A 20110509; TW 100125146 A 20110715; US 201113811081 A 20110509; US 201715686217 A 20170825