

Title (en)
STATIC SPRAY MIXER

Title (de)
STATISCHER SPRÜHMISCHER

Title (fr)
MÉLANGEUR DE PULVÉRISATION STATIQUE

Publication
EP 2595758 A1 20130529 (DE)

Application
EP 11717673 A 20110509

Priority
• EP 10170141 A 20100720
• EP 2011057379 W 20110509
• EP 11717673 A 20110509

Abstract (en)
[origin: WO2012010338A1] 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). Each flow channel has a variable incline in relation to the longitudinal axis (A) in the direction of flow.

IPC 8 full level
B05B 7/08 (2006.01); **B01F 25/70** (2022.01); **B05B 7/04** (2006.01); **B05B 7/10** (2006.01); **B05C 17/005** (2006.01)

CPC (source: EP KR US)
B01F 25/40 (2022.01 - KR); **B01F 25/4321** (2022.01 - EP US); **B05B 7/04** (2013.01 - 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)

Citation (search report)
See references of WO 2012010338A1

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 2012010338 A1 20120126; BR 112012033175 A2 20161129; BR 112012033175 B1 20201222; BR 112012033175 B8 20230321; CA 2805970 A1 20120126; CA 2805970 C 20180213; CN 103118798 A 20130522; CN 103118798 B 20150812; DK 2595758 T3 20150608; EP 2595758 A1 20130529; EP 2595758 B1 20150318; ES 2533587 T3 20150413; JP 2013530832 A 20130801; JP 5993371 B2 20160914; KR 101852041 B1 20180425; KR 20130093076 A 20130821; MX 2013000618 A 20130320; RU 2013107373 A 20140827; RU 2567638 C2 20151110; TW 201221228 A 20120601; TW I566839 B 20170121; US 10625282 B2 20200421; US 2013119158 A1 20130516

DOCDB simple family (application)
EP 2011057379 W 20110509; BR 112012033175 A 20110509; CA 2805970 A 20110509; CN 201180035370 A 20110509; DK 11717673 T 20110509; EP 11717673 A 20110509; ES 11717673 T 20110509; JP 2013520015 A 20110509; KR 20137001246 A 20110509; MX 2013000618 A 20110509; RU 2013107373 A 20110509; TW 100125147 A 20110715; US 201113811074 A 20110509