

Title (en)

ARRANGEMENT TO INSERT A LIQUID MEDIUM INTO EXHAUSTS FROM A COMBUSTION ENGINE

Title (de)

ANORDNUNG ZUM EINBRINGEN EINES FLÜSSIGEN MEDIUMS IN ABGASE AUS EINEM VERBRENNUNGSMOTOR

Title (fr)

AGENCEMENT POUR INSÉRER UN MILIEU LIQUIDE DANS L'ÉCHAPPEMENT D'UN MOTEUR À COMBUSTION

Publication

EP 2935817 A1 20151028 (EN)

Application

EP 13864833 A 20131205

Priority

- SE 1251488 A 20121221
- SE 2013051456 W 20131205

Abstract (en)

[origin: WO2014098728A1] Arrangement (1) to introduce a liquid medium, for example urea, into exhausts from a combustion engine, which arrangement comprises: - a mixing chamber (2) intended to be perfused by exhausts, wherein the mixing chamber is delimited in a radial direction outwards by a tubular metal wall (6), and - an injection element (10) for injection of the liquid medium as a spray (11) into the mixing chamber. Said tubular wall has a variable wall thickness seen in the mixing chamber's longitudinal direction, so that the section (6a) of the tubular wall which is intended to be impacted by said spray of a liquid medium from the injection element has a wall thickness which is greater than the wall thickness of those sections (6b) of the tubular wall I which are adjacent to this wall section.

IPC 8 full level

B01F 3/04 (2006.01); **B01F 5/04** (2006.01); **B01F 5/06** (2006.01); **F01N 3/20** (2006.01); **F01N 3/28** (2006.01); **F01N 13/08** (2010.01)

CPC (source: EP RU SE)

B01F 23/21321 (2022.01 - EP); **B01F 25/3131** (2022.01 - EP); **B01F 25/435** (2022.01 - EP); **F01N 3/2066** (2013.01 - EP SE); **F01N 3/2892** (2013.01 - EP); **F01N 13/08** (2013.01 - EP); **B01F 23/21321** (2022.01 - RU); **B01F 25/3131** (2022.01 - RU); **B01F 25/435** (2022.01 - RU); **B01F 2025/915** (2022.01 - EP); **B01F 2025/931** (2022.01 - EP); **F01N 3/2066** (2013.01 - RU); **F01N 13/08** (2013.01 - RU); **F01N 2470/08** (2013.01 - EP SE); **F01N 2470/24** (2013.01 - EP); **F01N 2470/30** (2013.01 - EP); **F01N 2610/02** (2013.01 - SE); **F01N 2610/102** (2013.01 - SE); **Y02T 10/12** (2013.01 - EP)

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)

WO 2014098728 A1 20140626; BR 112015014580 A2 20170711; EP 2935817 A1 20151028; EP 2935817 A4 20160928; KR 20150092337 A 20150812; RU 2015129689 A 20170130; RU 2609009 C2 20170130; SE 1251488 A1 20140622; SE 536832 C2 20140923

DOCDB simple family (application)

SE 2013051456 W 20131205; BR 112015014580 A 20131205; EP 13864833 A 20131205; KR 20157019141 A 20131205; RU 2015129689 A 20131205; SE 1251488 A 20121221