

Title (en)  
EXTERNALLY MIXING MULTI-COMPONENT NOZZLE

Title (de)  
AUSSEN MISCHENDE MEHRSTOFFDÜSE

Title (fr)  
BUSE MULTIPLE À MÉLANGE EXTERNE

Publication  
**EP 2558217 A1 20130220 (DE)**

Application  
**EP 11717209 A 20110415**

Priority  
• DE 102010015497 A 20100416  
• EP 2011055995 W 20110415

Abstract (en)  
[origin: WO2011128433A1] The invention relates to an externally mixing multi-component nozzle for spraying fluids with the assistance of an atomizing gas that is hot in relation to the fluids to be sprayed, said gas particularly being steam or hot gas. The nozzle has a housing, wherein the housing has an outlet orifice for the atomizing gas, a first annular gap for fluid to be sprayed, surrounding the outlet orifice, and a second annular gap for the atomizing gas, surrounding the first annular gap, as well as a manifold. The manifold has at least one flow channel for fluid to be sprayed, from a connecting line to the first annular gap, and at least one flow channel from an atomizing gas connecting line to the outlet orifice for atomizing gas.

IPC 8 full level  
**B05B 7/06** (2006.01); **B05B 7/00** (2006.01); **B05B 7/08** (2006.01); **B05B 7/10** (2006.01)

CPC (source: EP US)  
**B05B 7/0012** (2013.01 - EP US); **B05B 7/065** (2013.01 - EP US); **B05B 7/067** (2013.01 - EP US); **B05B 7/0807** (2013.01 - EP US);  
**B05B 7/10** (2013.01 - EP US)

Citation (search report)  
See references of WO 2011128433A1

Cited by  
CN106345297A

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)  
**DE 102010015497 A1 20111020**; CN 102858466 A 20130102; EP 2558217 A1 20130220; EP 2558217 B1 20170531; ES 2637981 T3 20171018; HU E035691 T2 20180528; PL 2558217 T3 20171031; US 2013037628 A1 20130214; WO 2011128433 A1 20111020

DOCDB simple family (application)  
**DE 102010015497 A 20100416**; CN 201180019417 A 20110415; EP 11717209 A 20110415; EP 2011055995 W 20110415; ES 11717209 T 20110415; HU E11717209 A 20110415; PL 11717209 T 20110415; US 201113641280 A 20110415