

Title (en)
High pressure nozzle and method for producing a high pressure nozzle

Title (de)
Hochdruckdüse und Verfahren zum Herstellen einer Hochdruckdüse

Title (fr)
Buse haute pression et procédé de fabrication d'une buse haute pression

Publication
EP 1992415 A2 20081119 (DE)

Application
EP 08008919 A 20080515

Priority
DE 102007024247 A 20070515

Abstract (en)
The nozzle (10) has a feed channel with a beam directing device (26) formed with a discharge opening (22). A neck of the feed channel is provided downstream to the beam directing device. The beam directing device comprises a free flow section in a proximate region that encloses a center longitudinal axis (30) of the feed channel. The nozzle fastens a section with constant width at the neck of feed channel, where the section is crossed over a tapered discharge chamber. The section includes length that is twice the length of the neck of the feed channel. An independent claim is also included for a method for manufacturing a high pressure nozzle.

Abstract (de)
Die Erfindung betrifft eine Hochdruckdüse (10) mit einem Strahlrichter (26) innerhalb eines Zuführkanals zu einer Austrittsöffnung (22). Erfindungsgemäß weist der Strahlrichter (26) in einem die Mittellängsachse des Zuführkanals unmittelbar umgebenden Bereich einen freien Strömungsquerschnitt auf. Verwendung z.B. für Hochdruckdüsen zum Entzünden von Stahlerzeugnissen.

IPC 8 full level
B05B 1/04 (2006.01); **B05B 1/34** (2006.01); **B05B 15/40** (2018.01); **B22F 3/22** (2006.01); **B22F 5/10** (2006.01); **B22F 7/06** (2006.01); **B21B 45/02** (2006.01); **B21B 45/08** (2006.01)

CPC (source: EP KR US)
B05B 1/042 (2013.01 - EP KR US); **B05B 1/3402** (2018.08 - EP KR US); **B05B 15/40** (2018.02 - EP KR US); **B21B 45/0233** (2013.01 - KR); **B21B 45/08** (2013.01 - KR); **B22F 3/225** (2013.01 - EP KR US); **B22F 5/106** (2013.01 - EP KR US); **B22F 7/062** (2013.01 - EP KR US); **B05B 1/04** (2013.01 - EP US); **B21B 45/0233** (2013.01 - EP US); **B21B 45/08** (2013.01 - EP US); **Y10T 29/49433** (2015.01 - EP US)

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Designated extension state (EPC)
AL BA MK RS

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EP 08008919 A 20080515; AT 08008919 T 20080515; CN 200810099561 A 20080515; DE 102007024247 A 20070515; EP 11188268 A 20080515; ES 08008919 T 20080515; ES 11188268 T 20080515; JP 2008128749 A 20080515; JP 2012252140 A 20121116; KR 20080044696 A 20080514; PL 11188268 T 20080515; RU 2008117855 A 20080507; US 15236208 A 20080514; US 92585810 A 20101101