

Title (en)
Method for producing a high pressure nozzle

Title (de)
Verfahren zum Herstellen einer Hochdruckdüse

Title (fr)
Procédé de fabrication d'une buse haute pression

Publication
EP 2422883 A2 20120229 (DE)

Application
EP 11188268 A 20080515

Priority
• EP 08008919 A 20080515
• 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 15/00** (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** (2018.07 - EP KR US); **B05B 15/40** (2018.01 - 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)

Citation (applicant)
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• EP 0809556 B1 19981021 - KOMATSU MFG CO LTD [JP]
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WO2022242847A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1992415 A2 20081119; **EP 1992415 A3 20100127**; **EP 1992415 B1 20111221**; AT E537910 T1 20120115; CN 101306409 A 20081119; CN 101306409 B 20121128; DE 102007024247 B3 20081106; EP 2422883 A2 20120229; EP 2422883 A3 20130424; EP 2422883 B1 20140319; ES 2378001 T3 20120404; ES 2463869 T3 20140529; JP 2008285755 A 20081127; JP 2013121589 A 20130620; JP 5658218 B2 20150121; KR 101355984 B1 20140127; KR 20080101710 A 20081121; PL 2422883 T3 20140829; RU 2008117855 A 20091120; RU 2483810 C2 20130610; US 2008283635 A1 20081120; US 2011110811 A1 20110512; US 7841548 B2 20101130

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