

Title (en)

Spray head for coating a casting mould with a release agent

Title (de)

Sprühkopf zum Auftragen von Trennmittel auf eine Gussform

Title (fr)

Tête atomisante pour l'application d'un agent séparateur sur la surface d'un moule

Publication

EP 2272606 A1 20110112 (DE)

Application

EP 10176909 A 20060602

Priority

EP 06011537 A 20060602

Abstract (en)

The nozzle head (1) for a spray head for applying and distributing a release agent onto the pressure or injection molds, comprises a housing jacket (3), in which a processing space (4) is formed, where the processing space has a nozzle module arranged between a funnel-shaped opening (5) and a piston (6), and a port formed at the housing jacket to led the opening over the nozzle module, and a port formed at the housing jacket to fed a compressed air to the opening. The piston protrudes into the nozzle module along its side turned towards the funnel-shaped opening side in a closed position. The nozzle head (1) for a spray head for applying and distributing a release agent onto the pressure or injection molds, comprises a housing jacket (3), in which a processing space (4) is formed, where the processing space has a nozzle module arranged between a funnel-shaped opening (5) and a piston (6), and a port formed at the housing jacket to led the opening over the nozzle module, and a port formed at the housing jacket to fed a compressed air to the opening. The piston protrudes into the nozzle module along its side turned towards the funnel-shaped opening side in a closed position. An entrance opening formed in the housing jacket locks for the release agent and unlocks for the release agent in an opened position. The nozzle module is detachably fixed into the housing jacket. The surface of the nozzle module turned to the piston has a hardened surface, and is provided with a titanium nitride coating. The diameter of the nozzle of the nozzle module is 1.5 mm. The nozzle head is made of ceramic, stainless steel or hardened steel. An independent claim is included for a spray head.

Abstract (de)

Die vorliegende Erfindung betrifft einen Düsenkopf (1), insbesondere für einen Sprühkopf (2) zum Auftragen und Verteilen von Trennmittel auf Druck- oder Spritzgussformen, mit einem Gehäusemantel (3), in dem ein Bearbeitungsraum (4) ausgebildet ist, der ein zwischen einer trichterförmigen Öffnung (5) und einem Kolben (6) angeordnetes Düsenmodul (7) aufweist, mindestens einem an dem Gehäusemantel (3) ausgebildeten Anschluss, um der trichterförmigen Öffnung (5) über das Düsenmodul (7) Trennmittel zuzuführen, mindestens einem an dem Gehäusemantel (3) ausgebildeten Anschluss, um der trichterförmigen Öffnung (5) Druckluft zuzuführen.

IPC 8 full level

B22D 17/20 (2006.01); **B05B 7/12** (2006.01); **B22C 3/00** (2006.01)

CPC (source: EP)

B05B 1/306 (2013.01); **B05B 7/0815** (2013.01); **B05B 7/1263** (2013.01); **B05B 15/18** (2018.01); **B22D 17/2007** (2013.01)

Citation (applicant)

DE 3249545 C2 19890302

Citation (search report)

- [X] US 4907741 A 19900313 - MCINTYRE FREDERIC S [US]
- [X] EP 1410847 A2 20040421 - NORDSON CORP [US]
- [X] DE 10207197 A1 20030904 - ALSTOM SWITZERLAND LTD [CH]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1862239 A1 20071205; **EP 1862239 B1 20160629**; DE 202006020839 U1 20100610; EP 2272606 A1 20110112; ES 2593037 T3 20161205

DOCDB simple family (application)

EP 06011537 A 20060602; DE 202006020839 U 20060602; EP 10176909 A 20060602; ES 06011537 T 20060602