

Title (en)
Nozzle, nozzle family and metering device

Title (de)
Spritze, Spritzenfamilie und Dosiervorrichtung

Title (fr)
Seringue, famille de seringues et dispositif de dosage

Publication
EP 2279791 B1 20141112 (DE)

Application
EP 09009693 A 20090727

Priority
EP 09009693 A 20090727

Abstract (en)
[origin: EP2279791A1] The nozzle has an injection cylinder (2.1) comprising an injection piston (3.1) guided into a cylindrical piston mount region (5.1) in a sealed manner. The cylinder comprises a centering region (11.1) for guiding a centering element e.g. centering tube, at a distance from 3 mm from an upper end of the cylinder. The centering element comprises inner dimension, which exceeds inner dimension of the piston mount region and comprises 17.7 mm. The injection piston comprises a coupling piece (21.1) at an upper end of the piston for insertion into a piston support. An independent claim is also included for a dosage device comprising a nozzle family with nozzles.

IPC 8 full level
B01L 3/02 (2006.01)

CPC (source: EP)
B01L 3/0234 (2013.01); **B01L 3/0279** (2013.01); **B01L 2200/023** (2013.01); **B01L 2200/026** (2013.01); **B01L 2300/021** (2013.01); **B01L 2300/0609** (2013.01); **B01L 2400/0478** (2013.01)

Cited by
CN114786816A; EP2574402A1; WO2013045013A1; EP3260822A1; WO2017220673A1; US11130121B2

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 MK MT NL NO PL PT RO SE SI SK SM TR

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