

Title (en)  
Nozzle

Title (de)  
Düse

Title (fr)  
Buse

Publication  
**EP 2525077 B1 20170419 (DE)**

Application  
**EP 12003561 A 20120507**

Priority  
CH 8242011 A 20110516

Abstract (en)  
[origin: EP2525077A1] The nozzle has a stud hole or seat hole (1) arranged on a rear side of a nozzle body (5), and a spray hole (2) that leads outward from the stud hole or seat hole. The spray hole in a region of the spray hole inlet (3) exhibits a non-circular cross section and an oval cross section i.e. elliptical cross section. The spray hole in a region of a spray hole outlet (4) exhibits a circular cross section, and the stud hole or seat hole exhibits a groove (6), where the spray hole leads out from the groove. The spray hole is widened by a counter-bore at the spray hole outlet. An independent claim is also included for a method for manufacturing a nozzle.

IPC 8 full level  
**F02M 61/18** (2006.01)

CPC (source: EP US)  
**F02M 61/1833** (2013.01 - EP US); **F02M 61/184** (2013.01 - EP US); **F02M 61/1873** (2013.01 - EP US); **Y10T 29/494** (2015.01 - EP US)

Designated contracting state (EPC)  
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**EP 2525077 A1 20121121**; **EP 2525077 B1 20170419**; CH 704964 A1 20121130; US 2012292409 A1 20121122

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**EP 12003561 A 20120507**; CH 8242011 A 20110516; US 201213472881 A 20120516