

Title (en)  
Fluid injection nozzle

Title (de)  
Fluid-Einspritzdüse

Title (fr)  
Tuyère d'injection de fluide

Publication  
**EP 1128062 A2 20010829 (EN)**

Application  
**EP 01104258 A 20010222**

Priority  
• JP 2000048812 A 20000225  
• JP 2000075824 A 20000317

Abstract (en)  
At fuel downstream end of a valve body (13), there is arranged an injection port plate (25) formed into a thin disc shape. In the injection port plate (25), there are formed four injection ports (25a-25d) having fuel inlets in a common circumference on the center axis (27) of the injection port plate (25). The injection ports (25a-25d) are formed in the fuel injecting direction apart from the center axis (27) of the injection port plate (25). In each injection port, with respect to the injection port axis (100) joining the center of the fuel inlet and the center of the fuel outlet of each injection port (25a-25d), the injection port inner circumference (101) more distant from the center axis (27) of the injection port plate (25) is more inclined toward the outer circumference with respect to the center axis (27) than the injection port inner circumference (101) less distance from the center axis (27) of the injection port plate (25) with respect to the injection port axis (100). <IMAGE> <IMAGE>

IPC 1-7  
**F02M 61/18**

IPC 8 full level  
**B05B 1/02** (2006.01); **B05B 1/12** (2006.01); **F02M 51/06** (2006.01); **F02M 61/04** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP KR)  
**F02M 51/0671** (2013.01 - EP); **F02M 51/0678** (2013.01 - EP); **F02M 61/18** (2013.01 - KR); **F02M 61/1846** (2013.01 - EP);  
**F02M 61/1853** (2013.01 - EP)

Cited by  
CN114947581A; DE10318436B4; US2021123403A1; US11835020B2; WO2008028786A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 1128062 A2 20010829**; **EP 1128062 A3 20040331**; **EP 1128062 B1 20060426**; AU 2320601 A 20011018; AU 743015 B2 20020117; BR 0100799 A 20010925; BR 0100799 B1 20090113; DE 60119007 D1 20060601; DE 60119007 T2 20061019; KR 100419183 B1 20040219; KR 20010085602 A 20010907

DOCDB simple family (application)  
**EP 01104258 A 20010222**; AU 2320601 A 20010223; BR 0100799 A 20010223; DE 60119007 T 20010222; KR 20010009654 A 20010226