

Title (en)  
INJECTOR AND ASSEMBLY HAVING AN INJECTOR

Title (de)  
INJEKTOR UND ANORDNUNG MIT EINEM INJEKTOR

Title (fr)  
INJECTEUR ET ENSEMBLE PRÉSENTANT UN INJECTEUR

Publication  
**EP 4367380 A1 20240515 (DE)**

Application  
**EP 22740862 A 20220705**

Priority

- DE 102021206997 A 20210705
- EP 2022068608 W 20220705

Abstract (en)  
[origin: WO2023280866A1] The invention relates to an injector (10) for discharging a pressurized working medium into a combustion chamber (1) of an internal combustion engine (2), comprising: - an injector housing (22), in which a nozzle needle (34) is longitudinally movably disposed between a closed position, in which the nozzle needle closes at least one inlet opening (26) for the working medium into the combustion chamber (1), and an open position, in which the nozzle needle leaves the at least one inlet opening (26) open; - a pressure chamber (28) for the working medium, the pressure chamber being located in the injector housing (22); and - a control chamber (46), which is located in the injector housing (22) and which can be filled with a pressurized control medium different from the working medium.

IPC 8 full level  
**F02M 47/02** (2006.01); **F02M 35/10** (2006.01); **F02M 47/04** (2006.01); **F02M 61/14** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)  
**F02B 43/10** (2013.01); **F02D 19/0689** (2013.01); **F02M 21/0206** (2013.01); **F02M 21/0251** (2013.01); **F02M 43/00** (2013.01); **F02M 47/027** (2013.01); **F02M 47/043** (2013.01); **F02M 61/14** (2013.01); **F02M 61/20** (2013.01); **F02B 2201/062** (2013.01); **F02B 2201/064** (2013.01); **F02D 19/0644** (2013.01); **F02D 19/0655** (2013.01); **F02M 2200/95** (2013.01)

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**DE 102021206997 A1 20230105**; EP 4367380 A1 20240515; JP 2024523548 A 20240628; KR 20240026518 A 20240228; WO 2023280866 A1 20230112

DOCDB simple family (application)  
**DE 102021206997 A 20210705**; EP 2022068608 W 20220705; EP 22740862 A 20220705; JP 2023579492 A 20220705; KR 20247003654 A 20220705