

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFEINSPRITZER

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
**EP 3201462 A1 20170809 (EN)**

Application  
**EP 15763851 A 20150903**

Priority  
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Abstract (en)  
[origin: WO2016050444A1] The present disclosure relates to a fuel injector (101, 201, 301, 401) comprising a fuel supply line, a fuel return line (111, 211, 311, 411), a control chamber (107, 207, 307, 407), a control valve (104, 204, 304, 404) for controlling fuel pressure in the control chamber (107, 207, 307, 407), the control valve (104, 204, 304, 404) comprising a valve member (105, 205, 305, 405) and a cooperating valve seat (106, 206, 306, 406), and a fuel flow restriction (149, 249, 349, 449) for maintaining a positive pressure in the fuel return line (111, 211, 311, 411). The fuel flow restriction (149, 249, 349, 449) comprises a first aperture having a restriction width (W R ). A particle trap (152, 252, 352, 452) is disposed between the valve seat (106, 206, 306, 406) and the fuel flow restriction (149, 249, 349, 449). The particle trap (152, 252, 352, 452) comprises at least one second aperture having a clearance width (W c ). The clearance width (W c ) is less than or equal to the restriction width (W R ).

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