

Title (en)  
Fuel injector

Title (de)  
Kraftstoffeinspritzdüse

Title (fr)  
Injecteur à carburant

Publication  
**EP 2863043 B1 20170104 (EN)**

Application  
**EP 13188728 A 20131015**

Priority  
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Abstract (en)  
[origin: EP2863043A1] The invention relates to a fuel injector 10; 300 comprising an armature 130, a needle 40, a coil 25, a casing 15 and a valve body 20. The coil 25 is arranged in the casing 15. The armature 130 and the needle 40 are at least partially arranged in the valve body 20. The coil 25 is electrically connectable to a control device 30 in order to generate an electromagnetic field 26. The armature 130 is connected with the needle 40 and configured to interact with the electromagnetic field 26 in order to displace the needle 40 from a closed position towards an open position along a longitudinal axis 35 of the valve body 20. The casing 15 is arranged on an outer peripheral surface of a portion of the valve body 20. A separation ring 150 is provided, wherein the separation ring 150 is at least partially arranged between the casing 15 and the armature 130 and configured to lead the electromagnetic field 26 to the armature 130, wherein the separation ring 150 comprises a first section 195 with a first material and at least a second section 230 with a second material, wherein the first material differs from the second material.

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Cited by  
US10253739B2; WO2016173778A1; WO2023148347A1

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