

Title (en)  
Coupling arrangement and connection assembly

Title (de)  
Verbinder und Verbundanordnung

Title (fr)  
Dispositif de couplage et assemblage de liaison

Publication  
**EP 1862668 B1 20090318 (EN)**

Application  
**EP 06011398 A 20060601**

Priority  
EP 06011398 A 20060601

Abstract (en)  
[origin: EP1862668A1] A coupling arrangement (10) for coupling an injector (6) to a fluid supply comprises a fuel connection (12) which is cup-shaped having a bottom portion and a side portion, which is fixed to a pipe (8) of the fluid supply. A locking element (14) is cup-shaped and comprises a rim (17), a bottom portion and a side portion and is coupled to the fuel connection (12). At least a part of the side portions of the locking element (14) and of the fuel connection (12) form an overlapping area. An inner spring (18) is arranged in the fuel connection (12) and is fixed to the bottom portion of the fuel connection (12) at an axial end of the inner spring (18). An outer spring (16) is arranged intermediate the pipe (8) and the locking element (14), the outer spring (16) having a larger diameter than the inner spring (18) and the outer spring (16) forcing the locking element (14) away from the pipe (8). At least one pin (26) of the fuel connection (12) is arranged in the overlapping area at the fuel connection (12). At least one recess (28) is formed in the locking element (14) and extends from the rim (17) of the locking element (14) towards the bottom portion of the locking element (14) and further at least partly parallel to the bottom portion of the locking element (14) and further towards the rim (17) of the locking element (14) to a second end (32) of the recess (28) of the locking element (14). The second end (32) of the recess (28) of the locking element (14) takes in the pin (26) of the fuel connection (12).

IPC 8 full level  
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CPC (source: EP)  
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Cited by  
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