

Title (en)
Double locking connector for an injector

Title (de)
Doppelsperrenanschluss für einen Einspritzer

Title (fr)
Connecteur à double verrouillage pour injecteur

Publication
EP 2161441 A1 20100310 (EN)

Application
EP 09169669 A 20090907

Priority
KR 20080088191 A 20080908

Abstract (en)
There is provided a double locking connector (1) for an injector (10), which is used to connect, say, a tube to the injector (10) with enhanced binding force thereof so as not to be easily separated from the injector by external force, such as vibration. The double locking connector (1) includes a coupling connector (100) and a lock connector (200) coupled with each other. The coupling connector (100) includes a fitting tube (110) to be inserted into a fitting hole (11) formed in the injector (10), and an insert (120) to be fitted, via elastic movement thereof, into an insertion recess (12) formed at either side of the fitting hole (11) of the injector (10). The lock connector (200) includes a press arm (210) to press the insert (120) towards the insertion recess (12). As the press arm (210) of the lock connector (200) strongly presses the elastic insert (120) of the coupling connector (100), enhanced binding force between the coupling connector (100) and the injector (10) is accomplished.

IPC 8 full level
F02M 55/00 (2006.01)

CPC (source: EP KR)
F02M 55/004 (2013.01 - EP); **F02M 55/005** (2013.01 - EP); **F02M 61/14** (2013.01 - KR); **F02M 61/16** (2013.01 - KR)

Citation (applicant)
DE 9114365 U1 19920312

Citation (search report)
• [X] DE 9114365 U1 19920312
• [A] EP 0568075 A1 19931103 - VOSS ARMATUREN [DE]
• [A] US 6539920 B1 20030401 - SPIERS DEAN LEIGH [US]
• [A] EP 0918156 A1 19990526 - RENAULT [FR]
• [A] EP 1154150 A1 20011114 - VOSS ARMATUREN [DE]

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US10014633B1

Designated contracting state (EPC)
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 SE SI SK SM TR

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