

Title (en)

Device for removing pressure tubes from injection units in internal combustion engines

Title (de)

Vorrichtung zur Demontage von Druckrohren an Einspritzeinheiten von Brennkraftmaschinen

Title (fr)

Dispositif pour démonter des conduits d'unités d'injection dans des moteurs à combustion interne

Publication

**EP 0937892 A3 20030102 (DE)**

Application

**EP 99100669 A 19990115**

Priority

DE 19807711 A 19980224

Abstract (en)

[origin: EP0937892A2] The pressure pipe (3) is clamped between an injector element and a connector. The pipe has a groove (7) around the end facing the connector (4). The connector has apertures (8a,b), which are located in the groove when installed. A U-shaped spring bracket (6) is pushed over apertures and groove, so that an axial positive connection is formed, and pressure pipe and connector can be turned against each other.

IPC 1-7

**F02M 55/02**; **F02M 55/00**

IPC 8 full level

**F02D 41/30** (2006.01); **F02M 55/00** (2006.01); **F02M 55/02** (2006.01)

CPC (source: EP)

**F02M 55/005** (2013.01); **F02M 55/02** (2013.01); **F02M 2200/803** (2013.01)

Citation (search report)

- [A] WO 9702426 A1 19970123 - CUMMINS ENGINE CO INC [US]
- [A] DE 19524520 A1 19970109 - BOSCH GMBH ROBERT [DE]
- [A] DE 4239173 C1 19930902
- [A] EP 0569727 A1 19931118 - BOSCH GMBH ROBERT [DE]

Cited by

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0937892 A2 19990825**; **EP 0937892 A3 20030102**; **EP 0937892 B1 20030924**; DE 19807711 A1 19990909; DE 59907068 D1 20031030

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