

Title (en)  
THREADED FUEL RAILS

Title (de)  
KRAFTSTOFFVERTEILERLEITUNGEN MIT GEWINDE

Title (fr)  
RAILS DE CARBURANT FILETÉS

Publication  
**EP 3418550 A1 20181226 (EN)**

Application  
**EP 17176934 A 20170620**

Priority  
EP 17176934 A 20170620

Abstract (en)  
A fuel rail assembly for gasoline direct injection fuel delivery to an engine. The assembly has a common rail tube (10). In the tube (10) there are threaded orifices (21) extending laterally. Injector sockets (12) are adapted to mate with the threaded orifices (21). Each injector socket (12) has a proximal nipple end region (22) connected to the tube (10) and a distal end region (24) through which fuel is delivered to the engine. Screw threads (26) are disposed around the proximal nipple end region (22). The screw threads (26) include a lead thread that is received by the threaded orifices (21), thereby forming mechanical connections between the injector sockets (12) and the tube (10) that are adapted to withstand maximum pressures of fuel up to 20 Mpa (2900 psi).

IPC 8 full level  
**F02M 55/02** (2006.01)

CPC (source: EP)  
**F02M 55/025** (2013.01); **F02M 2200/8015** (2013.01); **F02M 2200/8076** (2013.01)

Citation (applicant)  

- JP 2005069023 A 20050317 - USUI KOKUSAI SANGYO KK
- JP 2003129920 A 20030508 - USUI INTERNATIONAL INDUSTRY
- US 8596246 B2 20131203 - NISHIZAWA HIROYUKI [JP], et al
- US 8844500 B2 20140930 - BEDEKAR SARANG R [US], et al
- US 8844502 B2 20140930 - SOLFERINO VINCE P [US], et al
- US 8074624 B2 20111213 - HOHKITA ATSUSHI [US], et al
- EP 2284385 A1 20110216 - CONTINENTAL AUTOMOTIVE GMBH [DE]
- EP 2333302 A1 20110615 - USUI KOKUSAI SANGYO KK [JP]

Citation (search report)  

- [A] EP 1378658 A1 20040107 - DENSO CORP [JP]
- [A] DE 102013220788 B3 20141113 - CONTINENTAL AUTOMOTIVE GMBH [DE]

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3418550 A1 20181226; EP 3418550 B1 20191120; PL 3418550 T3 20200629**

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