

Title (en)

A FUEL INJECTION ASSEMBLY FOR AN INTERNAL COMBUSTION ENGINE AND HOLDING COMPONENT

Title (de)

KRAFTSTOFFEINSPRITZANORDNUNG FÜR EINE BRENNKRAFTMASCHINE UND HALTEKOMPONENTE

Title (fr)

ENSEMBLE D'INJECTION DE CARBURANT POUR MOTEUR À COMBUSTION INTERNE ET COMPOSANT DE RETENUE

Publication

EP 3786440 A1 20210303 (EN)

Application

EP 19193699 A 20190827

Priority

EP 19193699 A 20190827

Abstract (en)

A fuel injection assembly is provided that comprises an elongate fuel injector (4) having a fuel inlet port and a fuel outlet port, an injector cup (2), and a holding component (8) for securing the fuel injector (4) in the injector cup (2). The injector cup (2) comprises a generally cylindrical body having a longitudinal axis L, an upper end adapted to be connected to a fuel rail mechanically and hydraulically, and a lower end, the injector cup (2) being open at its lower end to receive a fuel inlet port (10) of the fuel injector (4), wherein a slot (14) is formed in the peripheral wall of the injector cup (2) for receiving an engagement element (16) of the holding component (8). The holding component (8) further comprises two generally parallel supporting arms (18) adapted to engage opposite sides of the fuel injector (4). The two supporting arms (18) each have a resilient extension (20) to resiliently engage the lower end of the injector cup (2) on respective opposite sides of the fuel injector (4), each of the resilient extensions (20) engaging the injector cup (2) at at least two spaced points.

IPC 8 full level

F02M 61/14 (2006.01)

CPC (source: EP)

F02M 61/14 (2013.01); **F02M 2200/8023** (2013.01); **F02M 2200/853** (2013.01); **F02M 2200/856** (2013.01)

Citation (applicant)

- US 8479710 B2 20130709 - DAVIS G MARC [US]
- WO 2015135732 A1 20150917 - CONTINENTAL AUTOMOTIVE GMBH [DE]

Citation (search report)

- [X] US 2015101572 A1 20150416 - SERRA GIANDOMENICO [IT], et al
- [X] US 2013074951 A1 20130328 - MARC DANIEL [IT], et al
- [X] JP 2010168964 A 20100805 - DENSO CORP

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

DOCDB simple family (publication)

EP 3786440 A1 20210303

DOCDB simple family (application)

EP 19193699 A 20190827