

Title (en)

FUEL SUPPLY DEVICE FOR INTERNAL COMBUSTION ENGINE

Title (de)

KRAFTSTOFFZUFUHRVORRICHTUNG FÜR VERBRENNUNGSMOTOREN

Title (fr)

DISPOSITIF D'ALIMENTATION EN CARBURANT POUR MOTEUR À COMBUSTION INTERNE

Publication

EP 3088722 A1 20161102 (EN)

Application

EP 16164218 A 20160407

Priority

JP 2015078189 A 20150407

Abstract (en)

A fuel supply device for an internal combustion engine is provided, which includes a plurality of fuel filters and is capable of reducing: the number of replacement parts; and clogging of filter elements by deposition of wax. A fuel supply path 100 for supplying fuel in a fuel tank 2 to injectors 8 includes: a first fuel filter 3 that is disposed upstream of a feed pump 4 and that has a first filter element 32; and a second fuel filter 5 that is disposed downstream of the feed pump 4 and that has a second filter element 52. A fuel return pipe 108 and a fuel return pipe 107 are provided so that fuel discharged from the feed pump 4 is returned, via the second fuel filter 5, to a returned fuel heater 34 disposed upstream of the first filter element 32 in the first fuel filter 3.

IPC 8 full level

F02M 37/00 (2006.01); **F02M 37/22** (2006.01); **B01D 35/00** (2006.01); **B01D 35/18** (2006.01); **F02M 31/14** (2006.01); **F02M 55/00** (2006.01)

CPC (source: EP US)

F02M 37/0035 (2013.01 - EP US); **F02M 37/0052** (2013.01 - EP); **F02M 37/30** (2018.12 - EP US); **F02M 31/145** (2013.01 - EP US); **F02M 2200/27** (2013.01 - EP)

Citation (applicant)

JP 2014020221 A 20140203 - KYOSAN DENKI KK

Citation (search report)

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Cited by

CN109184975A; US11015555B2; WO2019030332A1

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)

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DOCDB simple family (application)

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