

Title (en)

COMMON RAIL FOR A FUEL INJECTION DEVICE

Title (de)

COMMON RAIL FÜR EINE BRENNSTOFFEINSPRITZVORRICHTUNG

Title (fr)

RAMPE DE DISTRIBUTION POUR UN DISPOSITIF D'INJECTION DE COMBUSTIBLE

Publication

EP 3857047 A1 20210804 (DE)

Application

EP 19759324 A 20190821

Priority

- CH 11762018 A 20180927
- EP 2019072317 W 20190821

Abstract (en)

[origin: WO2020064225A1] The invention relates to a common rail (16) having a preferably cube-shaped rail body (26) with a connection surface (44) and a control surface (62). All the hydraulic connections, such as the high-pressure inlet (30), the high-pressure outlets (32), the low-pressure feed inlet (38), the low-pressure feed outlet (40), and the return flow connection (46), are formed on the connection surface side. The fuel quantity regulating valve (64) which is connected between the low-pressure feed inlet (38) and the low-pressure feed outlet (40) is located on the control surface side. Furthermore, the pressure sensors (68), the pressure control valve (70), and the relief valve (72) are arranged on the control surface side. The protective cover (54) closes and protects the connection surface (62) and the elements arranged thereon from the surroundings.

IPC 8 full level

F02M 55/02 (2006.01); **F02M 59/20** (2006.01); **F02M 59/34** (2006.01); **F02M 59/36** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02D 41/3854 (2013.01); **F02M 55/025** (2013.01); **F02M 59/205** (2013.01); **F02M 59/34** (2013.01); **F02M 59/366** (2013.01); **F02M 59/466** (2013.01); **F02M 63/005** (2013.01); **F02M 2200/85** (2013.01)

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)

WO 2020064225 A1 20200402; CH 715387 A1 20200331; EP 3857047 A1 20210804

DOCDB simple family (application)

EP 2019072317 W 20190821; CH 11762018 A 20180927; EP 19759324 A 20190821