

Title (en)
FUEL SUPPLY DEVICE

Title (de)
KRAFTSTOFFZUFÜHRVORRICHTUNG

Title (fr)
DISPOSITIF DE FOURNITURE DE CARBURANT

Publication
EP 2799704 A1 20141105 (EN)

Application
EP 12863018 A 20121204

Priority
• JP 2011286982 A 20111227
• JP 2012081348 W 20121204

Abstract (en)
A fuel supply device comprises a return flow channel (39) for merging a first return flow channel (25) with a second return flow channel (27) at a merging point (D) and returning the flow channel to a fuel tank (3). A back pressure valve (29) is provided to the return flow channel (39), and back pressure is imparted to first injectors (1a-1d) and second injectors (1e-1h). Communicating flow channels (31a, 31 b) connect an intermediate pressure flow channel (13) to either the first return flow channel (25), the second return flow channel (27), or a portion upstream of the back pressure valve (29). A non-return valve (33) has lower open valve pressure than the back pressure, the non-return valve (33) is provided to the communicating flow channels (31a, 31b), and the non-return valve (33) allows fuel to be supplied from the intermediate pressure flow channel (13) to the first return flow channel (25) and the second return flow channel (27) and prevents the fuel from flowing the opposite direction.

IPC 8 full level
F02M 55/00 (2006.01); **F02M 37/00** (2006.01); **F02M 55/02** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)
F02M 37/0052 (2013.01); **F02M 63/0225** (2013.01); **F02M 63/0295** (2013.01); **F01N 3/021** (2013.01); **F01N 3/0253** (2013.01); **F02B 3/06** (2013.01); **F02M 55/002** (2013.01); **F02M 2200/21** (2013.01); **F02M 2200/60** (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

DOCDB simple family (publication)
EP 2799704 A1 20141105; **EP 2799704 A4 20151202**; **EP 2799704 B1 20170118**; AU 2012359530 A1 20140717; AU 2012359530 B2 20160414; JP 2013133820 A 20130708; WO 2013099533 A1 20130704

DOCDB simple family (application)
EP 12863018 A 20121204; AU 2012359530 A 20121204; JP 2011286982 A 20111227; JP 2012081348 W 20121204