

Title (en)
DEVICE FOR DELIVERING FUEL

Title (de)
VORRICHTUNG ZUM FÖRDERN VON KRAFTSTOFF

Title (fr)
DISPOSITIF DE REFOULEMENT DE CARBURANT

Publication
EP 1799991 B1 20080305 (DE)

Application
EP 05789639 A 20051004

Priority
• EP 2005054977 W 20051004
• DE 102004049286 A 20041009

Abstract (en)
[origin: WO2006040274A1] Previously known devices for delivering fuel comprise at least one jet suction pump (22,33) and an entrainment pipe (21) which can be blocked by means of a stop valve (30), supplies the jet suction pump with fuel, and branches off a pressure pipe (11) that extends to an internal combustion engine (15). The electrically switched stop valve (30) allows the jet suction pumps (22, 23) to be switched off independently of the pressure prevailing downstream of a feed pump (4) as well as independently of the operating conditions of an internal combustion engine (15). The disadvantage is that the electrically switched stop valve is relatively expensive. In order to reduce the production cost, the stop valve (30) in the inventive device is embodied in an automatically closing manner. According to the invention, the pressure of the pressure pipe (11) acts upon the stop valve (30) in such a way that the stop valve closes at a pressure that is greater than or equal to a predetermined closing pressure.

IPC 8 full level
F02M 37/00 (2006.01); **F02M 37/02** (2006.01); **F02M 37/10** (2006.01); **F02M 69/54** (2006.01)

CPC (source: EP US)
F02M 37/0023 (2013.01 - EP US); **F02M 37/0058** (2013.01 - EP US); **F02M 37/0094** (2013.01 - EP US); **F02M 37/025** (2013.01 - EP US); **F02M 37/106** (2013.01 - EP US); **F02M 69/54** (2013.01 - EP US); **Y10T 137/86019** (2015.04 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 102004049286 A1 20060420; DE 502005003138 D1 20080417; EP 1799991 A1 20070627; EP 1799991 B1 20080305; US 2008095642 A1 20080424; US 7832379 B2 20101116; WO 2006040274 A1 20060420

DOCDB simple family (application)
DE 102004049286 A 20041009; DE 502005003138 T 20051004; EP 05789639 A 20051004; EP 2005054977 W 20051004; US 57664005 A 20051004