

Title (en)

PUMPING UNIT FOR FEEDING FUEL, PREFERABLY DIESEL FUEL, TO AN INTERNAL COMBUSTION ENGINE

Title (de)

PUMPEINHEIT FÜR DIE KRAFTSTOFFZUFUHR, VORZUGSWEISE DIESEL, AN EINEN VERBRENNUNGSMOTOR

Title (fr)

UNITÉ DE POMPAGE POUR ALIMENTER EN CARBURANT, DE PRÉFÉRENCE EN CARBURANT DIESEL, UN MOTEUR À COMBUSTION INTERNE

Publication

**EP 3599371 A1 20200129 (EN)**

Application

**EP 19185943 A 20190712**

Priority

IT 201800007469 A 20180724

Abstract (en)

A pumping unit has a hydraulic circuit (8) which connects together a storage tank (2), a low-pressure pump (7), a high-pressure pump (6) and an internal combustion engine (3) and is provided with a valve unit (13) defined by an electric metering valve (22) and by an overflow valve (23) provided with respective closing members (26, 44) movable between respective closed and open positions in respective directions of movement (A, B) transverse to each other.

IPC 8 full level

**F02M 37/00** (2006.01); **F02M 59/20** (2006.01); **F02M 59/34** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

**F02M 37/0011** (2013.01); **F02M 37/0017** (2013.01); **F02M 37/0023** (2013.01); **F02M 37/0029** (2013.01); **F02M 37/0041** (2013.01); **F02M 37/0052** (2013.01); **F02M 59/205** (2013.01); **F02M 59/34** (2013.01); **F02M 63/0017** (2013.01); **F02M 63/0028** (2013.01); **F02M 63/004** (2013.01); **F02M 63/0043** (2013.01); **F02M 63/005** (2013.01); **F02M 2200/803** (2013.01); **F02M 2200/855** (2013.01)

Citation (search report)

- [IAY] US 5626121 A 19970506 - KUSHIDA TAKEO [JP], et al
- [YA] US 2001032618 A1 20011025 - RAMSEYER ERIC D [US], et al
- [A] DE 102014223240 A1 20160519 - BOSCH GMBH ROBERT [DE]

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)

**EP 3599371 A1 20200129**; IT 201800007469 A1 20200124

DOCDB simple family (application)

**EP 19185943 A 20190712**; IT 201800007469 A 20180724