

Title (en)

SYSTEM FOR HEATING A GASEOUS FUEL START-UP CIRCUIT

Title (de)

SYSTEM ZUM ERWÄRMEN EINES GASBRENNSTOFF-STARTKREISES

Title (fr)

SYSTEME DE RECHAUFFAGE D'UN CIRCUIT DE CARBURANT GAZEUX POUR DEMARRAGE

Publication

**EP 4367378 A1 20240515 (FR)**

Application

**EP 21742366 A 20210707**

Priority

EP 2021068744 W 20210707

Abstract (en)

[origin: WO2023280393A1] A liquid gas injection circuit (100) for an internal combustion engine of a motor vehicle comprising a gas supply pipe (31) connected to a gas injection rail (32), wherein at least one gas injector (34) leading into an inlet channel of the engine is arranged, the supply pipe (31) passing through a heat exchanger (36) with a circuit (35) for cooling the engine, characterised in that the supply pipe (31) comprises a gas vaporisation device (10) arranged at the inlet of the injection rail (32).

IPC 8 full level

**F02M 21/02** (2006.01); **F02D 19/02** (2006.01); **F02D 41/06** (2006.01); **F02M 21/06** (2006.01); **F02M 31/125** (2006.01); **F02M 31/18** (2006.01)

CPC (source: EP)

**F02D 19/022** (2013.01); **F02D 41/221** (2013.01); **F02M 21/0212** (2013.01); **F02M 21/0287** (2013.01); **F02M 21/0293** (2013.01); **F02M 21/06** (2013.01); **F02D 41/0027** (2013.01); **F02D 41/064** (2013.01); **F02M 31/125** (2013.01); **F02M 31/18** (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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2023280393 A1 20230112**; CN 118159728 A 20240607; EP 4367378 A1 20240515

DOCDB simple family (application)

**EP 2021068744 W 20210707**; CN 202180100300 A 20210707; EP 21742366 A 20210707