

Title (en)

METHOD FOR REGULATING A PRESSURE IN A WATER INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR DRUCKREGELUNG IN EINER WASSEREINSPRITZANLAGE FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)

PROCÉDÉ DE RÉGULATION D'UNE PRESSION DANS UN SYSTÈME D'INJECTION D'EAU POUR UN MOTEUR À COMBUSTION INTERNE

Publication

EP 4048884 A1 20220831 (FR)

Application

EP 20796806 A 20201026

Priority

- FR 1911995 A 20191025
- EP 2020080044 W 20201026

Abstract (en)

[origin: WO2021078998A1] The invention relates to a method for regulating a pressure in a water injection system for an internal combustion engine and a device implementing said method. The method according to the invention comprises the following steps: - Measuring, by sensors controlled by a first electronic control unit, ECU 1, the progression: - of the pressure in the water injection system, Psyst; - of at least one parameter of a water injection pump governing the water injection rate; - Recording, by the first electronic control unit, ECU 1, at least one parameter of the internal combustion engine originating from a second electronic control unit, ECU 2, - Initiating, before opening or closing at least one water injector of the water injection system, a variation of said at least one parameter of the water injection pump so as to maintain the pressure in the water injection system, Psyst, close to a reference pressure value, Pref; - Controlling the opening or closing of at least one water injector of the water injection system on the basis of said at least one parameter of the internal combustion engine.

IPC 8 full level

F02M 25/022 (2006.01); **F02B 47/02** (2006.01); **F02M 25/028** (2006.01)

CPC (source: EP)

F02B 47/02 (2013.01); **F02M 25/0227** (2013.01); **F02M 25/028** (2013.01); **F02M 25/0221** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)

See references of WO 2021078998A1

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)

FR 3102512 A1 20210430; FR 3102512 B1 20220513; EP 4048884 A1 20220831; WO 2021078998 A1 20210429

DOCDB simple family (application)

FR 1911995 A 20191025; EP 2020080044 W 20201026; EP 20796806 A 20201026