

Title (en)

METHOD FOR OPERATING A WATER INJECTION DEVICE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM BETREIBEN EINER WASSEREINSPRITZVORRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN DISPOSITIF D'INJECTION D'EAU POUR UN MOTEUR À COMBUSTION INTERNE

Publication

EP 3292289 B1 20230222 (DE)

Application

EP 16716879 A 20160418

Priority

- DE 102015208508 A 20150507
- EP 2016058519 W 20160418

Abstract (en)

[origin: WO2016177561A1] The present invention relates to a water injection device for an internal combustion engine, which water injection device has a water tank (5) for storing water, a delivery element (3) which serves for delivering the water and which is connected to the water tank (5), at least two water injectors (6a, 6b) which serve for injecting water and which are connected in each case to the delivery element (3), and a control unit (10) which is designed to successively open the water injectors (6a, 6b), wherein the delivery element (3) is designed to successively draw in water situated in the water injectors (6a, 6b) and supply said water to the water tank (5) when the water injectors are open, in order to prevent the water injectors (6a, 6b) from icing up.

IPC 8 full level

F02B 47/02 (2006.01); **F02D 41/00** (2006.01); **F02D 41/04** (2006.01); **F02M 25/025** (2006.01)

CPC (source: EP)

F02D 41/042 (2013.01); **F02M 25/0221** (2013.01); **F02M 25/0227** (2013.01); **F02M 25/025** (2013.01); **F02M 25/028** (2013.01); **F02B 47/02** (2013.01); **F02D 41/0025** (2013.01)

Citation (examination)

DE 102012220943 A1 20130606 - FORD GLOBAL TECH LLC [US]

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)

WO 2016177561 A1 20161110; CN 107636293 A 20180126; CN 107636293 B 20200320; DE 102015208508 A1 20161110; EP 3292289 A1 20180314; EP 3292289 B1 20230222

DOCDB simple family (application)

EP 2016058519 W 20160418; CN 201680026640 A 20160418; DE 102015208508 A 20150507; EP 16716879 A 20160418