

Title (en)

Electrical drive arrangement for a fuel injection system

Title (de)

Schaltungsanordnung für ein Kraftstoffeinspritzsystem

Title (fr)

Dispositif de commande électrique pour système d'injection de carburant

Publication

EP 2546499 B1 20200415 (EN)

Application

EP 11174004 A 20110714

Priority

EP 11174004 A 20110714

Abstract (en)

[origin: EP2546499A1] An electrical drive arrangement for at least one fuel injector (54) of a fuel injection system comprises: a buffer capacitor (60) adapted to store energy; a charging stage (64) for charging said buffer capacitor (60) to a target charge voltage (V charge); and an injector driver stage (52) operatively connected to a fuel injector (54). A voltage regulation device (62) is operatively connected between the buffer capacitor (60) and the injector driver stage (52) and configured to supply an operating voltage to the driver stage. A controller (82) is configured to determine said target charge voltage (V charge) for the buffer capacitor (60) depending on pre-set conditions, while the charging stage (64) is adapted to receive from the controller an input representative of the target charge voltage.

IPC 8 full level

F02D 41/20 (2006.01)

CPC (source: EP)

F02D 41/20 (2013.01); **F02D 2041/2003** (2013.01); **F02D 2041/2006** (2013.01)

Cited by

JP2019060306A; CN107532535A; US10280864B2; WO2016174820A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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