

Title (en)

COMBUSTION ENGINE AND METHOD OF CONTROLLING A COMBUSTION ENGINE

Title (de)

VERBRENNUNGSMOTOR UND VERFAHREN ZUR STEUERUNG EINES VERBRENNUNGSMOTORS

Title (fr)

MOTEUR A COMBUSTION ET PROCEDE DE COMMANDE D'UN MOTEUR A COMBUSTION

Publication

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Application

EP 08826725 A 20080721

Priority

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- FR 0705437 A 20070725

Abstract (en)

[origin: WO2009016310A2] Internal combustion engine comprising: a pulse current generator (6); at least one electrode (5) provided with at least one tip; a means (7) for controlling the electrical supply to said electrode (5) by said generator (6); and a combustion chamber (1) in which the tip of said electrode (5) is positioned, this tip being separated from the inner wall of the chamber (1) by a minimum separation distance (D). The current generator (6) and the electrode (5) are designed such that the power density (R) generated while said electrode (5) is being supplied is less than 105 watts per cubic centimetre, this power density (R) being equal to the electrical supply power (Pmax) of said electrode (5) divided by the minimum separation distance (D) cubed.

IPC 8 full level

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CPC (source: EP US)

F02P 23/045 (2013.01 - EP US); **F02D 41/3041** (2013.01 - EP US)

Citation (search report)

See references of WO 2009016310A2

Citation (examination)

- US 4287862 A 19810908 - NOGUCHI MASAOKI, et al
- US 4515117 A 19850507 - KAJINO YUKIO [JP]
- US 4787360 A 19881129 - FILIPPONE CLAUDIO [IT]
- US 5179928 A 19930119 - COUR MARIE M H [FR], et al
- US 5239973 A 19930831 - MURATA SHIGEMI [JP], et al
- US 6883507 B2 20050426 - FREEN PAUL DOUGLAS [US]

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (application)

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