

Title (en)
COMBUSTION CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

Title (de)
VERBRENNUNGSSTEUERUNGSVORRICHTUNG FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)
DISPOSITIF DE COMMANDE DE LA COMBUSTION POUR UN MOTEUR À COMBUSTION INTERNE

Publication
EP 2535545 A4 20180307 (EN)

Application
EP 10845224 A 20100208

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Abstract (en)
[origin: EP2535545A1] The invention provides a combustion control device applied to an internal combustion engine having a glow plug 23, the glow plug 23 heating a gas in a cylinder, the combustion control device comprising: a compression end temperature estimating means for estimating a compression end temperature T_t which is a temperature of the gas in a cylinder when a position of a piston moving in the cylinder in a reciprocating manner is at the compression top dead center; and a compression end temperature changing means for causing the internal combustion engine to perform a compression end temperature increasing operation in the case where the compression end temperature T_t estimated by the compression end temperature estimating means is lower than a predetermined compression end reference temperature T_{tref} during the operation of the glow plug, the compression end temperature increasing operation changing the compression end temperature T_t to be equal to or higher than the predetermined compression end reference temperature T_{tref} .

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F02D 35/023 (2013.01); **F02D 35/026** (2013.01); **F02P 19/026** (2013.01)

Citation (search report)

- [X] EP 2009268 A1 20081231 - HONDA MOTOR CO LTD [JP]
- [X] EP 1544443 A1 20050622 - TOYOTA MOTOR CO LTD [JP]
- [A] EP 1852604 A1 20071107 - BERU AG [DE]
- [A] DE 4403029 A1 19950810 - INST EN UND UMWELTECHNIK BRAN [DE]
- [A] DE 102007044003 A1 20090102 - BOSCH GMBH ROBERT [DE]
- See references of WO 2011096092A1

Cited by
WO2016203102A1

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