

Title (en)
METHOD FOR OPTIMIZING THE OPERATION OF A CHARGED RECIPROCATING INTERNAL COMBUSTION ENGINE IN THE LOWER ENGINE SPEED RANGE

Title (de)
VERFAHREN ZUR OPTIMIERUNG DES BETRIEBS EINER AUFGEADENEN KOLBENBRENNKRAFTMASCHINE IM UNTEREN DREHZAHLBEREICH

Title (fr)
PROCEDE D'OPTIMISATION DU FONCTIONNEMENT DANS LA PLAGE DE VITESSE DE ROTATION INFERIEURE D'UN MOTEUR A COMBUSTION INTERNE A PISTONS A SURALIMENTATION

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Application
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Abstract (en)
[origin: WO2005035958A1] The invention relates to a method for operating a fuel-injected, especially a directly fuel-injected, reciprocating internal combustion engine. Said engine comprises at least one outlet valve per cylinder, communicating with an exhaust gas installation, and at least one inlet valve, communicating with an air inlet installation, and means for increasing the boost pressure in the air inlet installation. The method is characterized in that a control device for variably adjusting at least the opening times of the inlet valves is provided and that in the lower engine speed range the inlet opening times of the inlet valves can be adjusted via the control device in such a manner that there is a valve overlap with the closing time of the corresponding outlet valves, thereby scavenging the cylinder with fresh charge air before charge exchange in the area of top dead center.

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