

Title (en)

METHOD AND ARRANGEMENT FOR CONTROLLING A COMBUSTION ENGINE

Title (de)

VERFAHREN UND ANORDNUNG ZUR STEUERUNG EINES VERBRENNUNGSMOTORS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE COMMANDE D'UN MOTEUR À COMBUSTION INTERNE

Publication

EP 3109447 A1 20161228 (EN)

Application

EP 16174224 A 20160613

Priority

SE 1530094 A 20150622

Abstract (en)

The invention relates to a method for optimizing an internal combustion engine with variable compression ratio for a direct start, the engine comprising a crankcase comprising a crankshaft connected to at least two pistons; and a cylinder block comprising at two cylinders The method involves determining a crank angle adjustment required to achieve a crank angle suitable for ignition in a first cylinder and operating at least one actuator (223; 423) to displace the cylinder block relative to the crankcase for adjustment of compression ratio and cylinder offset (O). This causes a simultaneous displacement of the cylinder block (217) in the direction of the cylinder axis (Y), and transverse to the cylinder axis (Y) and the crankshaft axis (X). The crank angle adjustment is performing using a mechanism (428; 528; 430) connecting the cylinder block and the crankshaft, which mechanism (428; 528; 430) is actuated by the cylinder block displacement.

IPC 8 full level

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Citation (applicant)

WO 9116538 A1 19911031 - VOLVO AB [SE]

Citation (search report)

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