

Title (en)

METHOD FOR THE IMPROVEMENT OF THE REGULARITY WITH A PISTON ENGINE AND ENGINE RUNNING ACCORDING TO THIS METHOD

Publication

EP 0254005 B1 19900131 (DE)

Application

EP 87108248 A 19870606

Priority

CH 252486 A 19860623

Abstract (en)

[origin: EP0254005A1] 1. Method of evening out the steady-state running of a reciprocating internal combustion engine having three or more cylinders, wherein the mean indicated pressure of at least one cylinder is varied, characterised in that at least one order of the torsional vibrations of the drive system is minimized by : in a first step of the method : measuring the torsional vibrations at the drive shaft or at a shaft (12, 22) connected kinematically to the drive shaft, by means of a torsional vibration meter (3), in a second step of the method : subjecting the measured torsional vibrations to a Fourier analysis for torsional vibrations, in a third step of the method : determining correction factors for the variation of the mean indicated cylinder pressure of at least two cylinders in a computer from the ascertained amounts and phase positions of the torsional vibration amplitudes and from comparison of predetermined torsional vibrations produced by the individual cylinders (161, 162, 163, 164, 165, 166), in a fourth step of the method ; the correction factors effect a variation of the amount injected per injection step of the injection pump (61, 62, 63, 64, 65, 66) at least one of these two cylinders.

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Cited by

KR100940528B1; EP1739296A1; CN115217664A; EP1435446A3; CN1044732C; US7082932B1; CN115031978A; EP0447697A3; EP0710841A3; US7212900B2; WO2005124132A1; WO9429580A1; WO0055484A1

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