

Title (en)

Sensor arrangement for rapid cylinder identification in an internal combustion engine

Title (de)

Geberanordnung zur schnellen Zylindererkennung bei einer Brennkraftmaschine

Title (fr)

Agencement de capteurs pour identifier rapidement un cylindre dans un moteur à combustion interne

Publication

EP 0831224 B1 20011024 (DE)

Application

EP 97114153 A 19970816

Priority

DE 19638338 A 19960919

Abstract (en)

[origin: EP0831224A2] The arrangement has a transducer plate (11) driven by the crankshaft (10) with a number of identical angle marks (12) and at least one reference mark (13,14) associated with a fixed crankshaft angle, a transducer plate (15) driven by the camshaft (16) with a number of identical segment angle marks (17) dependent on the number Z of cylinders and angle marks detectors (20,21) which pass corresp. signals to the engine controller. The number of reference markers on the plate driven by the crankshaft is Z/2 or Z and the camshaft-driven plate has Z-1 additional synchronization angle markers associated with the segment angle markers at different angular separations. One segment marker has no synchronization angle marker.

IPC 1-7

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IPC 8 full level

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Cited by

EP1111204A3; FR2839748A1; FR3087838A1; CN113167183A; CN110139978A; US11668257B2; WO2017065672A1; WO2020084055A1; US11585287B2; WO2018117930A1

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