

Title (en)

DEVICE FOR DETECTING A PERIODICALLY CHANGING VALUE IN SYNCHRONISM WITH THE CRANKSHAFT

Title (de)

EINRICHTUNG ZUR KURBELWELLENSYNCHRONEN ERFASSUNG EINER SICH PERIODISCH ÄNDERNDEN GRÖSSE

Title (fr)

DISPOSITIF PERMETTANT DE DETECTER, EN SYNCHRONISME AVEC LE VILEBREQUIN, UNE VALEUR VARIANT PERIODIQUEMENT

Publication

EP 0678159 B1 19981202 (DE)

Application

EP 94918296 A 19940622

Priority

- DE 9400716 W 19940622
- DE 4322311 A 19930705

Abstract (en)

[origin: WO9502122A1] The description relates to a device for detecting a periodically changing value in an internal combustion engine, e.g., the load, in synchronism with the crankshaft, which is measured by a sensor, the output signal of which, suitably processed or filtered, is scanned in a selectable time-slot pattern. The start of scanning is re-synchronised for each segment, and for synchronisation purposes is used the signal of a crankshaft sensor which scans a plate secured to the crankshaft and provides a signal flank per segment. The combination for scanning in synchronism with the crankshaft and, in relation to the segment, in a time constant, makes it possible to use different load detection sensors with improved accuracy over that of prior art processes. The average load for each segment can be determined from the scanned measurements and the quantity of air taken in per power stroke can be found.

IPC 1-7

F02D 41/18

IPC 8 full level

F02D 45/00 (2006.01); **F02D 41/18** (2006.01)

CPC (source: EP KR US)

F02D 41/18 (2013.01 - KR); **F02D 41/187** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

DE 4322311 A1 19950112; DE 59407393 D1 19990114; EP 0678159 A1 19951025; EP 0678159 B1 19981202; JP 3882026 B2 20070214; JP H08501369 A 19960213; KR 100327078 B1 20020629; KR 950703118 A 19950823; US 5520043 A 19960528; WO 9502122 A1 19950119

DOCDB simple family (application)

DE 4322311 A 19930705; DE 59407393 T 19940622; DE 9400716 W 19940622; EP 94918296 A 19940622; JP 50374195 A 19940622; KR 19950700610 A 19950217; US 39292395 A 19950227