

Title (en)
METHOD FOR SYNCHRONISED IGNITION

Title (de)
VERFAHREN ZUR ZÜNDSYNCHRONISATION

Title (fr)
PROCEDE DE SYNCHRONISATION D'ALLUMAGE

Publication
EP 1173667 B1 20040407 (DE)

Application
EP 00918878 A 20000413

Priority
• DE 19918664 A 19990424
• EP 0003348 W 20000413

Abstract (en)
[origin: DE19918664A1] The invention relates to a method for synchronised ignition in an internal combustion engine with a crankshaft sensor and a device for detecting smooth running. The aim of the invention is to provide a method for synchronised ignition which does not require a camshaft sensor. After the engine has started, ignition takes place in all of the upper dead centres (OT's) in at least one cylinder, the time of ignition being offset by a certain value each time that the crankshaft passes through 720 DEG . The effect of offsetting the time of ignition is determined by the device for detecting the smoothness of running. Ignition is assumed to have occurred in the area of the upper dead centre in which the ignition time is offset when the smoothness of running is modified above a predetermined limit value or is assumed to have occurred in the area of the upper dead centre in which the ignition time is not offset when the smoothness of running is not modified above a predetermined limit value.

IPC 1-7
F02D 41/34; **F02P 5/15**

IPC 8 full level
F02P 17/02 (2006.01); **F02D 41/14** (2006.01); **F02D 41/34** (2006.01); **F02P 5/15** (2006.01); **F02P 7/067** (2006.01)

CPC (source: EP US)
F02D 41/1498 (2013.01 - EP US); **F02P 7/0675** (2013.01 - EP US); **F02D 2200/1015** (2013.01 - EP US)

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
DE 19918664 A1 20001102; DE 50005997 D1 20040513; EP 1173667 A1 20020123; EP 1173667 B1 20040407; ES 2215634 T3 20041016; JP 2002543328 A 20021217; US 6536410 B1 20030325; WO 0065219 A1 20001102

DOCDB simple family (application)
DE 19918664 A 19990424; DE 50005997 T 20000413; EP 0003348 W 20000413; EP 00918878 A 20000413; ES 00918878 T 20000413; JP 2000613939 A 20000413; US 95938502 A 20020314