

Title (en)  
A method and a system for synchronization

Title (de)  
System und Verfahren zur Synchronisierung

Title (fr)  
Procédé et système pour la synchronisation

Publication  
**EP 1803916 A1 20070704 (EN)**

Application  
**EP 05113097 A 20051230**

Priority  
EP 05113097 A 20051230

Abstract (en)  
A method for synchronization or allocation of cylinders to the crankshaft position in a multi-cylinder internal combustion engine having a crankshaft (1) which rotates twice per working cycle comprises the steps of assuming the existing phase of the engine, injecting fuel into a cylinder being according to said assumed phase in the compression stroke, measuring a possible increase of the rotational speed of the crankshaft and repeating this procedure at least a further time. A phase assumption is considered to be correct if a said increase is obtained at least a predetermined number of times being at least two for this assumption. Otherwise the opposite phase is assumed as correct and the procedure is repeated for that new assumption.

IPC 8 full level  
**F02D 41/34** (2006.01); **F02D 41/14** (2006.01)

CPC (source: EP)  
**F02D 41/009** (2013.01); **F02D 2041/0092** (2013.01); **F02D 2200/1012** (2013.01)

Citation (search report)

- [X] FR 2853935 A1 20041022 - SIEMENS VDO AUTOMOTIVE [FR]
- [A] US 6571776 B1 20030603 - DUNSWORTH VINCE F [US]
- [A] EP 1050676 A2 20001108 - DELPHI TECH INC [US]

Cited by  
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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1803916 A1 20070704**; **EP 1803916 B1 20090304**; AT E424505 T1 20090315; DE 602005013104 D1 20090416

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