

Title (en)
CAMSHAFT ADJUSTING SYSTEM

Title (de)
NOCKENWELLENVERSTELLSYSTEM

Title (fr)
SYSTEME DE REGLAGE D'ARBRE A CAMES

Publication
EP 1787012 A1 20070523 (DE)

Application
EP 05754144 A 20050602

Priority
• EP 2005052547 W 20050602
• DE 102004039800 A 20040817

Abstract (en)
[origin: US7513230B2] A camshaft adjusting system for an internal combustion engine has a camshaft adjusting device with a first hydraulic chamber and a second hydraulic chamber, wherein the first and second hydraulic chambers act in opposition to one another. A control valve group working as a 4/4-way valve system has a first connection to the first hydraulic chamber, a second connection to the second hydraulic chamber, a tank connection, and a connection for pressurization. The camshaft adjusting system in a first state of the control valve group, when starting the internal combustion engine, is pressure-relieved relative to the tank connection by simultaneously hydraulically connecting the first and second connections of the camshaft adjusting device so that the camshaft adjusting device moves into a dwell position with a single locking mechanism. The dwell position also provides a safety function in case of system failure.

IPC 8 full level
F01L 1/344 (2006.01); **F01L 1/34** (2006.01)

CPC (source: EP US)
F01L 1/34 (2013.01 - EP US); **F01L 2001/34426** (2013.01 - EP US); **F01L 2820/01** (2013.01 - EP US)

Cited by
DE102013100913A1; DE102013100913B4; US8640662B2; EP1879078A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2006018330 A1 20060223; AT E487026 T1 20101115; DE 102004039800 A1 20060309; DE 102004039800 B4 20060727; DE 502005010491 D1 20101216; EP 1787012 A1 20070523; EP 1787012 B1 20101103; US 2008115751 A1 20080522; US 7513230 B2 20090407

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