

Title (en)
CAMSHAFT ADJUSTING SYSTEM

Title (de)
NOCKENWELLENVERSTELLSYSTEM

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

Publication
EP 1787012 B1 20101103 (DE)

Application
EP 05754144 A 20050602

Priority
• EP 2005052547 W 20050602
• DE 102004039800 A 20040817

Abstract (en)
[origin: WO2006018330A1] The inventive camshaft adjusting system (200) comprises a camshaft adjusting device (100) provided with two opposite hydraulic chambers (102, 104), an oscillating motor camshaft adjusting device and a control valve group (1) of the camshaft adjusting system, which operates as a four-way valve and comprises a connection (A) for the first hydraulic chamber (102), a connection (B) for the second hydraulic chamber (104) and a supply connection (T) and a connection (P) for applied pressure. Said camshaft adjusting system (200) is characterised in that in a first unpressurised state (I) it is relieved by the valve by means of the simultaneous hydraulic switching of the connections of the hydraulic chambers (102, 104) of the camshaft adjusting device (100) with respect to the supply connection (T).

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)

Citation (examination)
• US 2004112314 A1 20040617 - KANADA YOJI [JP], et al
• US 2001052330 A1 20011220 - TAKENAKA AKIHIKO [JP], et al

Cited by
DE102013100913A1; DE102013100913B4; US8640662B2; EP1879078A1

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

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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