

Title (en)

Method for operating an hydraulically driven and regulated camshaft phasing device for internal combustion engine

Title (de)

Verfahren zum Betreiben einer hydraulisch gesteuerten/geregelten Nockenwellen-Verstellvorrichtung für Brennkraftmaschinen

Title (fr)

Mode opératoire d'un dispositif de calage d'arbre à cames à commande et régulation hydrauliques pour moteur à combustion interne

Publication

EP 0758047 B1 19990630 (DE)

Application

EP 96108399 A 19960528

Priority

DE 19529277 A 19950809

Abstract (en)

[origin: EP0758047A1] The method has the pressure medium held in a pressure reservoir (19) supplied via a valve, in response to the engine starting signal, for advancing the camshaft angle. Pref., the pressure reservoir is connected in series with an electromagnetically- operated 2/2-way valve (18), with a seating valve (20) between the pressure reservoir and the hydraulic circuit (16) on the pump side.

IPC 1-7

F01L 1/344

IPC 8 full level

F01L 1/344 (2006.01)

CPC (source: EP US)

F01L 1/34406 (2013.01 - EP US); **F01L 2001/34446** (2013.01 - EP US); **F01L 2800/01** (2013.01 - EP US)

Cited by

EP2230390A1; EP1985813A3; FR2760104A1; ES2156479A1; US8061317B2; WO2015051786A1; WO2009027178A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0758047 A1 19970212; **EP 0758047 B1 19990630**; DE 19529277 A1 19970213; DE 59602318 D1 19990805; ES 2134535 T3 19991001; US 5704317 A 19980106

DOCDB simple family (application)

EP 96108399 A 19960528; DE 19529277 A 19950809; DE 59602318 T 19960528; ES 96108399 T 19960528; US 69534896 A 19960809