

Title (en)
Valve timing adjuster

Title (de)
Regler für Ventilsteuzeit

Title (fr)
Appareil de réglage de soupape

Publication
EP 2017437 A1 20090121 (EN)

Application
EP 08160496 A 20080716

Priority
JP 2007188730 A 20070719

Abstract (en)
A control apparatus (30) controls supply of working fluid to advancing chambers (51-54) and retarding chambers (55-58). The control apparatus (30) alternately and repeatedly implements an advancing supply period, during which the working fluid is supplied to the advancing chambers (51-54), and a retarding supply period, during which the working fluid is supplied to the retarding chambers (55-58), at time of limiting a phase of a camshaft (2) relative to a crankshaft within a target phase range.

IPC 8 full level
F01L 1/344 (2006.01)

CPC (source: EP KR US)
F01L 1/34 (2013.01 - KR); **F01L 1/344** (2013.01 - KR); **F01L 1/3442** (2013.01 - EP US); **F01L 2001/34483** (2013.01 - EP US)

Citation (applicant)
JP 2006063835 A 20060309 - DENSO CORP, et al

Citation (search report)

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Designated contracting state (EPC)
DE GB

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2017437 A1 20090121; JP 2009024600 A 20090205; KR 20090009140 A 20090122; US 2009020085 A1 20090122

DOCDB simple family (application)
EP 08160496 A 20080716; JP 2007188730 A 20070719; KR 20080069788 A 20080718; US 17077708 A 20080710