

Title (en)

INTERMEDIATE PHASE ADJUSTMENT APPARATUS OF CVVT

Title (de)

ZWISCHENPRODUKT-PHASENANPASSUNGSVORRICHTUNG VON CVVT

Title (fr)

APPAREIL DE RÉGLAGE DE PHASE INTERMÉDIAIRE DE CVVT

Publication

**EP 3109421 A3 20170111 (EN)**

Application

**EP 15195806 A 20151123**

Priority

KR 20150091600 A 20150626

Abstract (en)

[origin: EP3109421A2] The present disclosure provides an intermediate phase adjustment apparatus of a CVVT (Continuous Variable Valve Timing). This apparatus includes a pressure adjusting means balancing pressure of chambers by selectively allowing oil to be moved from a chamber at relatively high pressure to a chamber at relatively low pressure. One way to achieve this is by a pressure difference through an oil line, through which the oil can move in only one direction between the chambers.

IPC 8 full level

**F01L 1/344** (2006.01); **F01L 9/10** (2021.01)

CPC (source: CN EP US)

**F01L 1/34** (2013.01 - CN US); **F01L 1/3442** (2013.01 - EP US); **F01L 9/10** (2021.01 - US); **F01L 2001/34423** (2013.01 - US)

Citation (search report)

- [XA] DE 10337587 A1 20050310 - INA SCHAEFFLER KG [DE]
- [X] WO 2014204650 A1 20141224 - BORGWARNER INC [US]
- [X] WO 2012135179 A2 20121004 - BORGWARNER INC [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3109421 A2 20161228**; **EP 3109421 A3 20170111**; CN 106285813 A 20170104; US 2016376938 A1 20161229

DOCDB simple family (application)

**EP 15195806 A 20151123**; CN 201510828901 A 20151125; US 201514935007 A 20151106