

Title (en)  
CONTINUOUS CAMSHAFT PHASE-SHIFTING APPARATUS

Title (de)  
VORRICHTUNG ZUR KONTINUIERLICHEN PHASENVERSCHIEBUNG VON NOCKENWELLEN

Title (fr)  
APPAREIL DE DÉPHASAGE POUR ARBRE À CAMES EN CONTINU

Publication  
**EP 2064417 A1 20090603 (EN)**

Application  
**EP 07842677 A 20070918**

Priority  
• US 2007078755 W 20070918  
• US 84569206 P 20060919

Abstract (en)  
[origin: WO2008036650A1] A phase shift mechanism (A) for controlling a phase shift angle between a camshaft (12) and a drive (10) comprises a planetary gear train ( 20). The planetary gear train (20) has first and second planet gears (34, 26) that are united to rotate about a common axis at the same angular velocity, and a carrier (32) which includes a first planet bearing (62) and a second planet bearing (64) on which the united first and second planet gears ( 34, 36) respectively rotate and a locking mechanism (24) carried by the carrier (32) for locking the planetary gear train (20) in a locked condition by preventing the planet gears (34, 36) from rotating relative to the carrier (32 ) such that the phase shift angle remains the same and the output shaft 26 rotates with the input shaft (18) at the same angular velocity.

IPC 8 full level  
**F01L 1/352** (2006.01)

CPC (source: EP KR US)  
**F01L 1/344** (2013.01 - KR); **F01L 1/352** (2013.01 - EP KR US); **F02D 13/02** (2013.01 - KR)

Citation (search report)  
See references of WO 2008036650A1

Designated contracting state (EPC)  
DE FR IT

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**WO 2008036650 A1 20080327; WO 2008036650 A8 20080502**; EP 2064417 A1 20090603; JP 2010504470 A 20100212; KR 20090074161 A 20090706; US 2010064997 A1 20100318

DOCDB simple family (application)  
**US 2007078755 W 20070918**; EP 07842677 A 20070918; JP 2009529342 A 20070918; KR 20097005499 A 20070918; US 44184107 A 20070918