

Title (en)  
DEVICE FROM CHANGING THE CONTROL TIMES OF GAS EXCHANGE VALVES IN AN INTERNAL COMBUSTION ENGINE IN PARTICULAR A ROTATING PISTON ADJUSTMENT DEVICE FOR ANGULAR ADJUSTMENT OF A CAMSHAFT RELATIVE TO A CRANKSHAFT

Title (de)  
VORRICHTUNG ZUM VERÄNDERN DER STEUERZEITEN VON GASWECHSELN TILN EINER BRENNKRAFTMASCHINE, INSBESONDERE ROTATIONSKOLBEN-VERSTELLEINRICHTUNG ZUR DREHWINKELVERSTELLUNG EINER NOCKENWELLE GEGEN BER EINER KURBELWELLE

Title (fr)  
DISPOSITIF POUR MODIFIER LES TEMPS DE COMMANDE DE SOUPAPES D'ECHANGE GAZEUX D'UN MOTEUR A COMBUSTION INTERNE, EN PARTICULIER UN DISPOSITIF D'AJUSTEMENT DE PISTONS DE ROTATION PERMETTANT UN AJUSTAGE DE L'ANGLE DE ROTATION ENTRE UN ARBRE A CAMES ET UN VILEBREQUIN

Publication  
**EP 1706604 A1 20061004 (DE)**

Application  
**EP 04765996 A 20041020**

Priority  
• EP 2004011850 W 20041020  
• DE 10355502 A 20031127

Abstract (en)  
[origin: DE10355502A1] A system for controlling the timing of an IC engine, e.g. a radial piston engine has a first hydraulic control wheel (3) rigidly connected to the camshaft and set inside an outer control wheel (2) coupled to the crankshaft, e.g. by a timing chain/belt. The inner wheel has radial flanges moving inside hydraulic chambers in the inner wheel and with a hydraulic control system to vary the relative angular positions of the two wheels. The system includes a locking means (14) to lock the relative settings when the hydraulic pressure falls below a preset level.

IPC 8 full level  
**F01L 1/344** (2006.01)

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

Citation (search report)  
See references of WO 2005061860A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 10355502 A1 20050623**; DE 502004005999 D1 20080306; EP 1706604 A1 20061004; EP 1706604 B1 20080116; JP 2007512459 A 20070517; KR 101108374 B1 20120130; KR 20060107794 A 20061016; US 2007039580 A1 20070222; US 7290513 B2 20071106; WO 2005061860 A1 20050707

DOCDB simple family (application)  
**DE 10355502 A 20031127**; DE 502004005999 T 20041020; EP 04765996 A 20041020; EP 2004011850 W 20041020; JP 2006540208 A 20041020; KR 20067010278 A 20041020; US 57514304 A 20041020