

Title (en)

Device for changing the timing of gas exchange valves of a combustion engine, especially hydraulic vane cell timer

Title (de)

Vorrichtung zum Verändern der Steuerzeiten von Gaswechselventilen einer Brennkraftmaschine, insbesondere hydraulische Nockenwellen-Verstelleinrichtung in Rotationskolbenbauart

Title (fr)

Dispositif pour modifier le calage de soupapes d'un moteur a combustion interne, notamment un déphaseur avec des éléments de transmissions rotationnels

Publication

EP 1096112 B1 20040915 (DE)

Application

EP 00121419 A 20000929

Priority

DE 19951391 A 19991026

Abstract (en)

[origin: EP1096112A1] The device (1) is fastened to a camshaft (3) and consists of a drive pulley (4) and a rotor wheel (5). The side wall (9) of the drive pulley facing the camshaft is formed as a formed round blank with thin walls and low weight, requiring less space. The blank has an angled edge section (17), which at least partially surrounds the peripheral wall (7) of the pulley. The pulley side wall (8) away from the camshaft, the peripheral wall, and the pulley toothing (6), are fastened to each other via common connections. The side wall facing the camshaft is fastened non-detachable to the drive pulley via a separate connection (18), which increases its axial rigidity.

IPC 1-7

F01L 1/344

IPC 8 full level

F01L 1/34 (2006.01); **F01L 1/344** (2006.01)

CPC (source: EP US)

F01L 1/3442 (2013.01 - EP US); **F01L 2001/34479** (2013.01 - EP US)

Cited by

WO2010043462A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1096112 A1 20010502; EP 1096112 B1 20040915; AT E276432 T1 20041015; DE 19951391 A1 20010705; DE 50007756 D1 20041021; JP 2001173415 A 20010626; US 6418893 B1 20020716

DOCDB simple family (application)

EP 00121419 A 20000929; AT 00121419 T 20000929; DE 19951391 A 19991026; DE 50007756 T 20000929; JP 2000327455 A 20001026; US 69657600 A 20001025