

Title (en)

Apparatus for changing of phase angle between a cam shaft and a driving wheel of an internal combustion engine

Title (de)

Vorrichtung zur relativen Drehwinkelverstellung einer Nockenwelle einer Brennkraftmaschine zu einem Antriebsrad

Title (fr)

Appareil pour régler la phase entre un arbre à cames et une roue motrice d'un moteur à combustion interne

Publication

EP 1164255 B1 20040331 (DE)

Application

EP 01112997 A 20010611

Priority

- DE 10029798 A 20000616
- DE 10101328 A 20010113

Abstract (en)

[origin: EP1164255A1] An opening (62) connecting with the oil channel (61) is located between two pressure chambers (22a,24a), in or on the sector wheel (12). Its passage between the pressure chambers is controlled as a function of the position to which the inner component (4) is adjusted.

IPC 1-7

F01L 1/34

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); **Y10T 74/2102** (2015.01 - EP US)

Cited by

DE102004051427A1; DE102010060263A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1164255 A1 20011219; **EP 1164255 B1 20040331**; ES 2214362 T3 20040916; JP 2002021514 A 20020123; JP 4756180 B2 20110824; US 2002020375 A1 20020221; US 6742484 B2 20040601

DOCDB simple family (application)

EP 01112997 A 20010611; ES 01112997 T 20010611; JP 2001178491 A 20010613; US 88238001 A 20010618