

Title (en)

Camshaft phasing device for internal combustion engine

Title (de)

Nockenwellenversteller für Verbrennungskraftmaschinen

Title (fr)

Dispositif de déphasage d'arbre à cames pour moteur à combustion interne

Publication

EP 1477636 B1 20100217 (DE)

Application

EP 04010748 A 20040506

Priority

DE 10322394 A 20030512

Abstract (en)

[origin: EP1477636A2] The rotor (1) has outward projecting vanes, in close sealed contact with the inside diameter of the stator (3) the stator has inward projecting vanes, in close sealed contact with the outside diameter of the rotor forming working chambers (13) supplied with oil under pressure through oil galleries (63,64). The rotor is connected to the camshaft (2) and the stator is connected to a sprocket (20) for a timing chain.

IPC 8 full level

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

CPC (source: EP)

F01L 1/34 (2013.01); **F01L 1/3442** (2013.01); **F01L 2001/3443** (2013.01); **F01L 2001/34436** (2013.01); **F01L 2001/3444** (2013.01)

Cited by

EP1703184A1; DE102004036096B4; EP2522820A1; EP2927439A1; US11261765B1; WO2007051704A1; WO2006127347A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1477636 A2 20041117; **EP 1477636 A3 20050824**; **EP 1477636 B1 20100217**; **EP 1477636 B2 20150527**; AT E458128 T1 20100315; DE 10322394 A1 20041202; DE 502004010755 D1 20100401; JP 2004340142 A 20041202

DOCDB simple family (application)

EP 04010748 A 20040506; AT 04010748 T 20040506; DE 10322394 A 20030512; DE 502004010755 T 20040506; JP 2004139856 A 20040510