

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 B2 20150527 (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)

Citation (opposition)

Opponent :

- US 6318319 B1 20011120 - MIYASAKA HIDEYUKI [JP], et al
- JP H11141315 A 19990525 - MITSUBISHI ELECTRIC CORP
- US 5797361 A 19980825 - MIKAME KAZUHISA [JP], et al
- WO 0121938 A1 20010329 - DAIMLER CHRYSLER AG [DE], et al

Cited by

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

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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