

Title (en)

CAMSHAFT, CAM ANGLE DETECTION DEVICE, AND INTERNAL COMBUSTION ENGINE

Title (de)

NOCKENWELLE, NOCKENWELLEWINKELSENSOREINRICHTUNG UND BRENNKRAFTMASCHINE

Title (fr)

ARBRE À CAMES, CAPTEUR DE POSITION ANGULAIRE D'ARBRE À CAMES ET MOTEUR À COMBUSTION INTERNE

Publication

**EP 3071804 A1 20160928 (EN)**

Application

**EP 14806716 A 20141031**

Priority

- JP 2013238774 A 20131119
- IB 2014002419 W 20141031

Abstract (en)

[origin: WO2015075518A1] A camshaft includes a sensor rotor and a plurality of cams. The sensor rotor includes a base circle, and a projection portion formed on an outer peripheral surface of the base circle. A long diameter part of that one of the plurality of cams which is closest to the sensor rotor is placed within a region sandwiched between a first virtual line extending from the shaft center of the camshaft and a second virtual line extending from the shaft center of the camshaft in an axial view of the camshaft, the first virtual line passes through one circumferential end of the projection portion of the sensor rotor in an axial view of the camshaft, and the second virtual line passes through the other circumferential end of the projection portion of the sensor rotor in an axial view, of the camshaft.

IPC 8 full level

**F01L 1/047** (2006.01)

CPC (source: EP KR US)

**F01L 1/047** (2013.01 - EP KR US); **F16C 19/06** (2013.01 - KR); **F01L 2820/041** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2015075518A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2015075518 A1 20150528**; CN 105705737 A 20160622; EP 3071804 A1 20160928; JP 2015098819 A 20150528; KR 20160072213 A 20160622; US 2016273411 A1 20160922

DOCDB simple family (application)

**IB 2014002419 W 20141031**; CN 201480061077 A 20141031; EP 14806716 A 20141031; JP 2013238774 A 20131119; KR 20167012981 A 20141031; US 201415034579 A 20141031