

Title (en)

Coupling shaft, actuator, cam shaft adjustment drive and cam shaft adjuster

Title (de)

Kupplungswelle, Aktor, Nockenwellenverstellgetriebe und Nockenwellensteller

Title (fr)

Arbre d'embrayage, actionneur, boîte de vitesses à dispositif de réglage d'arbre à came et régulateur de l'arbre à came

Publication

EP 2530260 B1 20160113 (DE)

Application

EP 12167002 A 20120507

Priority

DE 102011103495 A 20110603

Abstract (en)

[origin: EP2530260A1] The clutch shaft (26) has coupling components at its both ends for a shaft angle compensating rotary coupling. An axial length of the clutch shaft is greater than maximum diameter of the larger coupling component. The clutch shaft has a cylindrically-symmetric, concave molding on its front side (30,31), where the molding is concentrically arranged to a main longitudinal axis (27) of the clutch shaft. Independent claims are included for the following: (1) an actuator with a rotor; and (2) a camshaft adjusting gear with a gear drive wheel.

IPC 8 full level

F01L 1/352 (2006.01)

CPC (source: EP US)

F01L 1/352 (2013.01 - EP US)

Cited by

DE102016205742A1; EP3578769A1

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

DOCDB simple family (publication)

EP 2530260 A1 20121205; EP 2530260 B1 20160113; DE 102011103495 A1 20121206; JP 2012251660 A 20121220; JP 5419050 B2 20140219; US 2012309571 A1 20121206; US 8919308 B2 20141230

DOCDB simple family (application)

EP 12167002 A 20120507; DE 102011103495 A 20110603; JP 2012137287 A 20120601; US 201213487210 A 20120603