

Title (en)
DEVICE FOR ADJUSTING THE RELATIVE ANGLE OF A CAM SHAFT

Title (de)
VORRICHTUNG ZUR RELATIVEN WINKELVERSTELLUNG EINER NOCKENWELLE

Title (fr)
DISPOSITIF D'AJUSTAGE ANGULAIRE RELATIF D'UN ARBRE A CAMES

Publication
EP 1088154 A1 20010404 (DE)

Application
EP 00909182 A 20000216

Priority
• DE 19916675 A 19990414
• EP 0001252 W 20000216

Abstract (en)
[origin: WO0061920A1] The invention relates to a device (1) for adjusting the relative angle of a cam shaft, especially for a cam shaft that actuates outlet valves, vis-à-vis a crankshaft that drives said cam shaft. The inventive device is characterized by the following features: A drive element (2) that is driven by the crankshaft, a power take-off element (4) that drives said cam shaft and that can be adjusted vis-à-vis the drive element, and control means for adjusting the drive element vis-à-vis the power take-off element. Said power take-off element (4) is mounted in an at least substantially coaxial relation to the drive element. At least one spring element (8) that holds the drive element in a normal position is arranged between the drive element and the power take-off element.

IPC 1-7
F01L 1/344

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); **F01L 2001/34483** (2013.01 - EP US); **Y10T 74/2102** (2015.01 - EP US)

Citation (search report)
See references of WO 0061920A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0061920 A1 20001019; DE 19916675 A1 20001130; DE 19916675 B4 20050707; DE 50005967 D1 20040513; EP 1088154 A1 20010404; EP 1088154 B1 20040407; JP 2002541380 A 20021203; US 6336433 B1 20020108

DOCDB simple family (application)
EP 0001252 W 20000216; DE 19916675 A 19990414; DE 50005967 T 20000216; EP 00909182 A 20000216; JP 2000610951 A 20000216; US 71958401 A 20010222