

Title (en)

Method for changing the angular position of shafts for an internal combustion engine

Title (de)

Vorrichtung zur Änderung der relativen Drehlage von Wellen in einer Brennkraftmaschine

Title (fr)

Procédé pour changer la position angulaire des arbres d'un moteur à combustion interne

Publication

**EP 0469334 B2 19970409 (DE)**

Application

**EP 91111200 A 19910705**

Priority

DE 4024056 A 19900728

Abstract (en)

[origin: JPH04232315A] PURPOSE: To minimize the structural length of an internal-combustion engine mounted with an arrangement for changing the relative rotating position of its two shafts, by improving the arrangement or reducing its structural space for a small size. CONSTITUTION: A first toothing is constructed as a first external toothing 11 which cooperates with a first internal toothing 13 cut correspondingly in a connecting member or plunger 12, and a second toothing is constructed as a second internal toothing 16 which cooperates with a second external toothing 14 cut correspondingly in the connecting member or plunger 12.

IPC 1-7

**F01L 1/34**; **F16D 3/10**

IPC 8 full level

**F01L 1/34** (2006.01); **F01L 1/344** (2006.01); **F01M 9/10** (2006.01); **F16D 3/10** (2006.01)

CPC (source: EP US)

**F01L 1/34406** (2013.01 - EP US); **F01M 9/102** (2013.01 - EP US); **F01L 2001/0475** (2013.01 - EP US); **F01L 2001/0476** (2013.01 - EP US); **F01L 2001/0537** (2013.01 - EP US); **F01L 2001/34426** (2013.01 - EP US); **F01L 2001/34496** (2013.01 - EP US); **F02B 2275/18** (2013.01 - EP US)

Cited by

EP0582846A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**DE 4024056 C1 19910919**; DE 59101147 D1 19940414; EP 0469334 A1 19920205; EP 0469334 B1 19940309; EP 0469334 B2 19970409; JP 3140093 B2 20010305; JP H04232315 A 19920820; US 5170756 A 19921215

DOCDB simple family (application)

**DE 4024056 A 19900728**; DE 59101147 T 19910705; EP 91111200 A 19910705; JP 18222191 A 19910723; US 73500591 A 19910725