

Title (en)

CONNECTION BETWEEN TWO SHAFT ENDS, POSITIONED COAXIALLY ONE BEHIND THE OTHER, OF A GAS SHUTTLE VALVE IN AN INTERNAL COMBUSTION ENGINE AND A VALVE ACTUATOR

Title (de)

VERBINDUNG ZWISCHEN ZWEI KOAXIAL HINTEREINANDER ANGEORDNETEN SCHAFTENDEN EINES GASWECHSELVENTILS EINER BRENNKRAFTMASCHINE UND EINES VENTILSTELLERS

Title (fr)

CONNEXION ENTRE DEUX EXTREMITES D'ARBRE, PLACEES L'UNE APRES L'AUTRE DE MANIERE COAXIALE, D'UNE SOUPAPE D'ECHANGE GAZEUX D'UN MOTEUR A COMBUSTION INTERNE ET UN ACTIONNEUR DE SOUPAPE

Publication

**EP 1307636 B1 20060419 (DE)**

Application

**EP 01956337 A 20010718**

Priority

- DE 0102691 W 20010718
- DE 10036810 A 20000728

Abstract (en)

[origin: WO0210558A1] The invention relates to a connection between two shaft ends (8, 10), positioned coaxially one behind the other, of a gas shuttle valve (1) in an internal combustion engine, and a piston rod (2) of a valve actuator (4), by means of at least one coupling body (14), which at least partially surrounds the shaft ends (8, 10). The aim of the invention is to create static frictional contact between each of the shaft ends (8, 10) and the coupling body (14), said contact transmitting the actuating displacement of the valve actuator (4) to the gas shuttle valve (1) without slippage. To achieve this, said coupling body is tensioned radially against the two shaft ends (8, 10), by the action of at least one tensioning body (34, 36). This both increases the durability of the connection and simplifies its assembly and disassembly.

IPC 8 full level

**F01L 3/10** (2006.01); **F01L 3/20** (2006.01); **F01L 9/20** (2021.01)

CPC (source: EP KR US)

**F01L 1/34** (2013.01 - KR); **F01L 3/10** (2013.01 - EP US); **F01L 9/20** (2021.01 - EP US); **F01L 2009/2125** (2021.01 - EP US)

Cited by

FR3000534A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 0210558 A1 20020207**; CN 1258640 C 20060607; CN 1386159 A 20021218; DE 10036810 A1 20020207; DE 50109559 D1 20060524; EP 1307636 A1 20030507; EP 1307636 B1 20060419; HU P0202740 A2 20021228; JP 2004505194 A 20040219; KR 100777933 B1 20071120; KR 20020032626 A 20020503; US 2003029410 A1 20030213; US 6752116 B2 20040622

DOCDB simple family (application)

**DE 0102691 W 20010718**; CN 01802214 A 20010718; DE 10036810 A 20000728; DE 50109559 T 20010718; EP 01956337 A 20010718; HU P0202740 A 20010718; JP 2002516457 A 20010718; KR 20027003959 A 20020327; US 8949902 A 20020819