

Title (en)

Variable compression ratio mechanism with two hydraulically operated valves in the crank shaft

Title (de)

Variables Kompressionsverhältnis, zwei durch Öldruck betätigte Ventile in der Kurbelwelle

Title (fr)

Variation de taux de compression avec deux soupapes commandées hydrauliquement dans le vilebrequin

Publication

**EP 1205652 B1 20040811 (DE)**

Application

**EP 00124773 A 20001114**

Priority

EP 00124773 A 20001114

Abstract (en)

[origin: EP1205652A1] The crankshaft for a stroke piston internal combustion engine has an eccentric casing (10) arranged on the crank pin (11) and through its rotation relatively to the crank pin, the effective crankshaft stroke can be altered. The casing can be secured by two locking components (7,14) in two positions turned through 180 degrees. The locking components are arranged in the crankshaft and are fed with a hydraulic medium via feed conduits (2,4) likewise in the crankshaft. Also a feed conduit (3) for a fluid can be provided, which is so conducted to the inner surface of the casing that a torque is exerted on the casing around the shaft pin.

IPC 1-7

**F02B 75/04**; **F02D 15/02**

IPC 8 full level

**F16C 3/10** (2006.01); **F02B 75/04** (2006.01); **F02D 15/02** (2006.01); **F16C 3/28** (2006.01)

CPC (source: EP US)

**F02B 75/045** (2013.01 - EP US); **F02B 75/048** (2013.01 - EP US); **F02D 15/02** (2013.01 - EP US); **Y10T 74/2173** (2015.01 - EP US)

Cited by

DE10309651A1; DE102010061362A1; EP2907986A1; DE102010061361A1; CN105240070A; DE102016004131A1; US10100726B2; WO2015124565A1; WO2017097936A1

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