

Title (en)
Crank shaft for an internal combustion engine

Title (de)
Kurbelwelle eines Motors

Title (fr)
Vilebrequin pour un moteur à combustion interne

Publication
EP 1043486 B1 20050316 (DE)

Application
EP 00105797 A 20000318

Priority
DE 19915508 A 19990407

Abstract (en)
[origin: EP1043486A2] The engine crankshaft has at least two power takeoffs which are clamped to each other on a common sector of the shaft by means of a basically axially directed clamping force. The crankshaft has a device (7) to convert the axially directed clamping force into clamping force with a radial component acting on at least one of the power takeoffs.

IPC 1-7
F02B 67/06; **F16D 1/08**

IPC 8 full level
F16B 5/06 (2006.01); **F02B 67/06** (2006.01); **F16B 1/02** (2006.01); **F16B 9/02** (2006.01); **F16C 3/02** (2006.01); **F16D 1/08** (2006.01); **H02K 7/075** (2006.01)

CPC (source: EP US)
F02B 67/06 (2013.01 - EP US); **Y10T 74/2173** (2015.01 - EP US); **Y10T 403/7054** (2015.01 - EP US)

Cited by
CN105465155A; CN104358794A; DE102008046167A1; DE102008046167B4

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 1043486 A2 20001011; **EP 1043486 A3 20011121**; **EP 1043486 B1 20050316**; DE 19915508 A1 20001012; DE 50009753 D1 20050421; ES 2239952 T3 20051016; JP 2000316255 A 20001114; US 2002178860 A1 20021205; US 6439080 B1 20020827; US 6532844 B2 20030318

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EP 00105797 A 20000318; DE 19915508 A 19990407; DE 50009753 T 20000318; ES 00105797 T 20000318; JP 2000103651 A 20000405; US 19607302 A 20020716; US 53853900 A 20000330