

Title (en)  
CRANKSHAFT FOR A VARIABLE COMPRESSION RATIO ENGINE

Title (de)  
KURBELWELLE FÜR EINEN MOTOR MIT VARIABLER VERDICHUNG

Title (fr)  
VILEBREQUIN POUR MOTEUR A RAPPORT VOLUMETRIQUE VARIABLE

Publication  
**EP 1977123 A1 20081008 (FR)**

Application  
**EP 07730866 A 20070126**

Priority

- FR 2007000148 W 20070126
- FR 0600711 A 20060126
- US 76286806 P 20060130

Abstract (en)  
[origin: WO2007085738A1] The invention relates to a crankshaft (9) for a variable compression ratio engine, which can be used to convert the reciprocating motion of the main moving components (2, 3, 5, 6, 40) of the variable compression ratio engine into rotational motion. The inventive device, which includes hydrodynamic bearings, has no balance weights.

IPC 8 full level  
**F16C 3/14** (2006.01); **F01B 9/04** (2006.01); **F02B 75/04** (2006.01)

CPC (source: EP KR US)  
**F01B 9/04** (2013.01 - KR); **F01M 1/06** (2013.01 - EP US); **F02B 75/04** (2013.01 - KR); **F02B 75/045** (2013.01 - EP US); **F02B 75/048** (2013.01 - EP US); **F16C 3/00** (2013.01 - KR); **F16C 3/14** (2013.01 - EP KR US); **F16C 3/20** (2013.01 - EP US); **F16C 33/10** (2013.01 - EP US)

Citation (search report)  
See references of WO 2007085738A1

Citation (examination)  
US 2419408 A 19470422 - ARTHUR LIGHTOWLER WILLIAM

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2007085738 A1 20070802**; AU 2007209223 A1 20070802; CA 2631655 A1 20070802; CN 101375068 A 20090225; EP 1977123 A1 20081008; FR 2896553 A1 20070727; FR 2896553 B1 20080502; JP 2009532602 A 20090910; KR 20080089445 A 20081006; US 2010224164 A1 20100909

DOCDB simple family (application)  
**FR 2007000148 W 20070126**; AU 2007209223 A 20070126; CA 2631655 A 20070126; CN 200780003658 A 20070126; EP 07730866 A 20070126; FR 0600711 A 20060126; JP 2008551827 A 20070126; KR 20087018301 A 20080725; US 16031007 A 20070126