

Title (en)

ROUGH-GRINDING AND FINISH-GRINDING A CRANKSHAFT IN A CLAMPING

Title (de)

VOR- UND FERTIGSCHLEIFEN EINER KURBELWELLE IN EINER AUFSPANNUNG

Title (fr)

DEGROSSISSAGE ET FINISSAGE A LA MEULE D'UN VILEBREQUIN A L'AIDE D'UN SEUL DISPOSITIF DE FIXATION

Publication

EP 1181132 B1 20030611 (DE)

Application

EP 00927018 A 20000420

Priority

- DE 19919893 A 19990430
- EP 0003633 W 20000420

Abstract (en)

[origin: DE19919893A1] The present invention relates to a method for grinding a centrally clamped crankshaft (1). The invention also relates to a grinding machine (43) for crankshafts for carrying out said method and a crankshaft (1) consisting of high-alloy steel or cast. According to the inventive method, lifting bearings (12) and main bearings (11) of the crankshaft (1) are ground in a clamping in such a way that at least the main bearings (11) are rough-ground and subsequently the lifting bearings (12) and then the main bearings (11) are finish-ground. The grinding machine (43) for crankshafts forms a working centre by means of which corresponding rough-grinding and finish-grinding are possible in one single clamping.

IPC 1-7

B24B 1/00; **B24B 5/42**; **B24B 27/00**; **B24B 51/00**

IPC 8 full level

B24B 1/00 (2006.01); **B24B 5/42** (2006.01); **B24B 27/00** (2006.01); **B24B 41/06** (2006.01); **B24B 51/00** (2006.01)

CPC (source: EP US)

B24B 5/42 (2013.01 - EP US)

Cited by

DE102014211938A1; DE102008007175A1; WO2011054679A1; DE102009051737B3; DE102008007175B4; DE102014211937B3; DE102014211937C5; WO2009095299A1; US9108287B2; US8506357B2; WO2015197449A1; EP3157708B1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

DE 19919893 A1 20001109; AU 4554600 A 20001117; CN 1157276 C 20040714; CN 1360534 A 20020724; CZ 20013878 A3 20020814; CZ 302536 B6 20110707; DE 50002544 D1 20030717; EP 1181132 A1 20020227; EP 1181132 B1 20030611; ES 2198307 T3 20040201; JP 2002542955 A 20021217; RU 2240218 C2 20041120; US 6878043 B1 20050412; WO 0066323 A1 20001109

DOCDB simple family (application)

DE 19919893 A 19990430; AU 4554600 A 20000420; CN 00810106 A 20000420; CZ 20013878 A 20000420; DE 50002544 T 20000420; EP 0003633 W 20000420; EP 00927018 A 20000420; ES 00927018 T 20000420; JP 2000615193 A 20000420; RU 2001132324 A 20000420; US 98076402 A 20020102