

Title (en)

Apparatus for machining cylindrical journals on workpieces by means of an abrasive belt

Title (de)

Vorrichtung zum Bearbeiten von zylindrischen Laufflächen mittels eines Schleifbandes

Title (fr)

Machine d'usinage par bande abrasive de portées cylindriques sur des pièces

Publication

EP 1160054 B1 20070221 (FR)

Application

EP 01401124 A 20010430

Priority

FR 0005727 A 20000504

Abstract (en)

[origin: US2001041523A1] A machine for grinding cylindrical bearing surfaces on parts, in particular journals and/or crank pins on crankshafts, using an abrasive belt, includes a support on which three abrasive belt clamping members are mounted in a triangle and mobile in directions that converge toward the axis of the bearing surface to be ground. Each clamping member carries at least one applicator shoe conformed to press the abrasive belt against the bearing surface along a surface essentially limited to a generatrix parallel to the axis of the bearing surface. The shoe is preferably made from an elastomer having a Shore hardness at most equal to 100 and has a cylindrically curved applicator surface with a radius of curvature less than the radius of curvature of the bearing surface.

IPC 8 full level

B24B 5/42 (2006.01); **B24B 21/00** (2006.01); **B24B 21/02** (2006.01); **B24B 35/00** (2006.01); **B24B 41/04** (2006.01)

CPC (source: EP US)

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Citation (examination)

- FR 2636877 A1 19900330 - PROCEDES MACHINES SPECIALES [FR]
- FR 2702693 A1 19940923 - PROCEDES MACHINES SPECIALES [FR]

Cited by

CN110253352A

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

US 2001041523 A1 20011115; **US 6454638 B2 20020924**; DE 60126707 D1 20070405; DE 60126707 T2 20071031; EP 1160054 A1 20011205; EP 1160054 B1 20070221; ES 2282212 T3 20071016; FR 2808463 A1 20011109; FR 2808463 B1 20020913; JP 2001353652 A 20011225

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