

Title (en)

Method and apparatus for finishing piston rings

Title (de)

Verfahren und Vorrichtung zur Feinbearbeitung von Kolbenringen

Title (fr)

Procédé et dispositif de polissage de segments de piston

Publication

EP 0755752 B1 19991229 (DE)

Application

EP 96110787 A 19960704

Priority

DE 19526863 A 19950722

Abstract (en)

[origin: EP0755752A1] The method involves a tool comprising two segments (3,3') which have an abrasive belt (4) lining suitably curved inner surfaces (5,5'). The workpieces (1) are brought into abrasive contact with the belts by adjusting the tool so that the curved inner surfaces have a common centre. The batches of workpieces are moved to-and-fro axially and rotated w.r.t. the belts so that machining takes place continuously at the same rate. The tool simultaneously locks, guides and machines the split ring workpieces. The force associated with the contact is consistently generated from the rings themselves.

IPC 1-7

B24B 19/11; **B24B 21/00**

IPC 8 full level

B24B 19/11 (2006.01); **B24B 21/00** (2006.01); **B24B 33/04** (2006.01)

CPC (source: EP US)

B24B 19/11 (2013.01 - EP US); **B24B 21/004** (2013.01 - EP US); **B24B 33/04** (2013.01 - EP US)

Cited by

CN102189465A; CN109318067A; CN112207659A; CN109352478A

Designated contracting state (EPC)

DE ES FR PT

DOCDB simple family (publication)

DE 19526863 A1 19970123; **DE 19526863 C2 19970612**; DE 19605059 C1 19970717; DE 59604015 D1 20000203; EP 0755752 A1 19970129; EP 0755752 B1 19991229; ES 2141417 T3 20000316; JP H0929600 A 19970204; PT 755752 E 20000428; US 5775978 A 19980707

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DE 19526863 A 19950722; DE 19605059 A 19960212; DE 59604015 T 19960704; EP 96110787 A 19960704; ES 96110787 T 19960704; JP 18794796 A 19960718; PT 96110787 T 19960704; US 68321796 A 19960718