

Title (en)

METHOD AND APPARATUS FOR CORRECTING DIAMETRICAL TAPER ON A WORKPIECE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERBESSERUNG DER KEGELFORM EINES ZYLINDRISCHEN WERKSTÜCKES

Title (fr)

PROCEDE ET APPAREIL POUR CORRIGER LA CONICITE D'UNE PIECE USINEE CYLINDRIQUE

Publication

**EP 0743891 B1 19991117 (EN)**

Application

**EP 94910107 A 19940209**

Priority

US 9401454 W 19940209

Abstract (en)

[origin: CA2182953C] A microfinishing arm assembly for reducing taper on selected bearing journal surfaces of various workpieces rotated about a longitudinal axis, including a primary finishing arm and a taper correction device for applying a plurality of adjacent independently variable grinding pressures. A primary abrasive device for finishing a journal surface is mountable on the primary finishing arm for use with the taper correction device. A measuring device for gauging the bearing journal surfaces at a plurality of spaced points during rotation is utilized with a processor device for receiving the gauging signals, calculating diameters of the journal surfaces and generating a plurality of output signals corresponding to the diameters of the bearing surfaces at spaced points. A comparator device compares the output signals to determine whether a taper exists and controls the grinding pressure of a taper correction device to correct the taper.

IPC 1-7

**B24B 49/00**; **B24B 49/04**; **B24B 5/42**

IPC 8 full level

**B24B 5/42** (2006.01); **B24B 49/00** (2006.01); **B24B 49/04** (2006.01)

CPC (source: EP)

**B24B 5/42** (2013.01); **B24B 49/00** (2013.01); **B24B 49/04** (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**CA 2182953 A1 19950817**; **CA 2182953 C 20001212**; DE 69421722 D1 19991223; DE 69421722 T2 20000706; EP 0743891 A1 19961127; EP 0743891 A4 19971029; EP 0743891 B1 19991117

DOCDB simple family (application)

**CA 2182953 A 19940209**; DE 69421722 T 19940209; EP 94910107 A 19940209