

Title (en)

FURTHER METHODS AND APPARATUS FOR CONTROL OF LATHES AND OTHER MACHINE TOOLS.

Title (de)

VERFAHREN UND GERÄT ZUR STEUERUNG VON STANGEN UND ANDEREN WERKZEUGMASCHINEN.

Title (fr)

PROCEDES ET APPAREILS DE COMMANDE DE TOURS ET AUTRES MACHINES OUTILS.

Publication

EP 0648358 A1 19950419 (EN)

Application

EP 93914062 A 19930517

Priority

- US 9304857 W 19930517
- US 88433192 A 19920518

Abstract (en)

[origin: WO9323820A1] The invention primarily concerns improvements to NC lathes and associated processes using the same. An NC turret lathe (11), known in the art, is equipped with sensors (25) located in the turret (20) as herein described. These sensors are equipped to measure the diameter or equivalent radius of the part, the length, the surface finish, and to determine forces of cutting. The invention includes the set of any or all of these sensors, and in combination, to improve machining, quality of the workpiece, as well as increased up time, and machining performance. Further illustrated are sensor and machine calibration and sensor display, and detail on a tool sensing embodiment.

IPC 1-7

G06F 15/46

IPC 8 full level

G01B 11/08 (2006.01); **G01B 11/12** (2006.01); **G01B 11/24** (2006.01); **G01S 17/46** (2006.01); **G05B 19/401** (2006.01); **G05B 19/4065** (2006.01)

CPC (source: EP)

G01B 11/08 (2013.01); **G01B 11/12** (2013.01); **G01B 11/2433** (2013.01); **G01S 17/48** (2013.01); **G05B 19/401** (2013.01); **G05B 19/4015** (2013.01); **G05B 19/4065** (2013.01); **G05B 2219/35349** (2013.01); **G05B 2219/36478** (2013.01); **G05B 2219/37008** (2013.01); **G05B 2219/37206** (2013.01); **G05B 2219/37228** (2013.01); **G05B 2219/37335** (2013.01); **G05B 2219/37357** (2013.01); **G05B 2219/37559** (2013.01); **G05B 2219/37574** (2013.01); **G05B 2219/37575** (2013.01); **G05B 2219/50026** (2013.01); **G05B 2219/50069** (2013.01); **G05B 2219/50203** (2013.01); **G05B 2219/50276** (2013.01); **G05B 2219/50375** (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 9323820 A1 19931125; EP 0648358 A1 19950419; EP 0648358 A4 19951213

DOCDB simple family (application)

US 9304857 W 19930517; EP 93914062 A 19930517