

Title (en)

METHOD AND DEVICE FOR DETERMINING THE POSITION OF ROTATION-DRIVEN TOOLS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR POSITIONSBESTIMMUNG VON DREHANTREIBBAREN WERKZEUGEN

Title (fr)

PROCEDE ET DISPOSITIF POUR LA DETERMINATION DE LA POSITION D'OUTILS POUVANT ETRE ENTRAINES EN ROTATION

Publication

**EP 1419029 A1 20040519 (DE)**

Application

**EP 02760321 A 20020816**

Priority

- DE 10140822 A 20010820
- EP 0209183 W 20020816

Abstract (en)

[origin: WO03018251A1] The invention relates to a method and a device for determining the position of rotation-driven tools (14) in machine tools. According to the invention, the moment of separation of the tool whose position is to be determined and a measuring beam (18), for example the laser beam of a light barrier, are used for this purpose. The tool whose position is to be determined is first positioned in such a manner that the measuring beam is interrupted and is then displaced to a measuring position in which the separation of the tool and the measuring beam occurs, and the measuring beam is no longer interrupted by the tool during at least one complete rotation. The moment of separation is used to determine the position of the tool.

IPC 1-7

**B23Q 17/24**; **B23Q 17/22**

IPC 8 full level

**B23Q 17/22** (2006.01); **B23Q 17/24** (2006.01)

CPC (source: EP US)

**B23Q 17/22** (2013.01 - US); **B23Q 17/24** (2013.01 - US); **B23Q 17/2466** (2013.01 - EP); **B23Q 17/2485** (2013.01 - EP); **Y10T 408/21** (2015.01 - EP US)

Citation (search report)

See references of WO 03018251A1

Citation (third parties)

Third party :

DE 10140822 B4 20051013 - BLUM NOVOTEST GMBH [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**WO 03018251 A1 20030306**; EP 1419029 A1 20040519; US 2004165197 A1 20040826; US 7256898 B2 20070814

DOCDB simple family (application)

**EP 0209183 W 20020816**; EP 02760321 A 20020816; US 78406904 A 20040219