

Title (en)

APPARATUS FOR POSITIONING A WORKPIECE AND A TOOL WITH RESPECT TO ONE ANOTHER

Title (de)

VORRICHTUNG ZUR GEGENSEITIGEN POSITIONIERUNG EINES WERKSTÜCKS UND EINES WERKZEUGS

Title (fr)

DISPOSITIF POUR EFFECTUER LE POSITIONNEMENT RÉCIPROQUE D'UNE PIÈCE ET D'UN OUTIL

Publication

**EP 3749483 A1 20201216 (DE)**

Application

**EP 19712898 A 20190204**

Priority

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- DE 2019100116 W 20190204

Abstract (en)

[origin: WO2019154460A1] Rather than machine tools, nowadays robots are used to some extent for the machining of workpieces. The robot holds the tool and machines the workpiece directly. On account of the stiffness of the robot arm, this is currently possible only with imprecise applications with tolerances of not less than 0.1 mm. The invention is intended to make it possible to improve the feed by such robots or portal solutions such that the tolerances are reduced without substantially acting on the production processes. This is allowed by a table-mounted positioning apparatus, in which a positioning unit is connected to the table. The positioning unit has a position sleeve, into which the robot introduces an external holding device for receiving the workpiece, or for receiving the tool. On account of a defined mounting of the position sleeve about a first main axis of rotation about an inner holding device, which holds the tool, or the workpiece, improved positioning of the robot arm can be achieved by the additional support thus created. The positioning unit is in this case passive, i.e. is moved by the robot arm itself.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2019154460A1

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