

Title (en)

SPINDLE ARRANGEMENT FOR CLAMPING A TOOL OR A WORKPIECE IN PLACE AND METHOD FOR OPERATING THE SPINDLE ARRANGEMENT

Title (de)

ACHSANORDNUNG ZUM EINSpannen EINES WERKZEUGS ODER EINES WERKSTÜCKS UND VERFAHREN ZUM BETREIBEN DER ACHSANORDNUNG

Title (fr)

ENSEMBLE D'AXE POUR SERRER UN OUTIL OU UNE PIÈCE DE TRAVAIL ET PROCÉDÉ D'EXPLOITATION DE L'ENSEMBLE D'AXE

Publication

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Application

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Abstract (en)

[origin: WO2017097556A1] The invention relates to a spindle arrangement (10) for clamping a tool or a workpiece in place. The spindle arrangement (10) has a receiving unit (12) which is mounted in a basic body (11) by a pivot bearing arrangement (13) so as to be rotatable about a longitudinal axis L. The receiving unit (12) has a receiving sleeve (18) that is mounted immovably parallel to the longitudinal axis L in the longitudinal direction R and a gripper actuating element (23) that is mounted in the receiving sleeve (18) so as to be displaceable along the longitudinal axis L. Fitted at an end, assigned to the front end (18a) of the receiving sleeve (18), of the gripper actuating element (23) is a gripping unit (24) for gripping the tool or the workpiece. The gripping unit (24) is pretensioned into a clamping position I by a pretensioning unit (30). An actuatable releasing unit (34) can move the gripping unit (24) counter to the pretensioning force FV of the pretensioning unit (30) into a releasing position II. By means of a supporting unit (48), an additional bearing (49), which is embodied in particular as an axial bearing, can be pushed against the receiving sleeve (18), in order to achieve better axial force support of the receiving unit (12) on the basic body (11) and to reduce the loading of the pivot bearing arrangement (13) by axial forces.

IPC 8 full level

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See references of WO 2017097556A1

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