Title (en)

TAILSTOCK DEVICE FOR SUPPORTING AND/OR CENTERING A WORKPIECE

Title (de)

REITSTOCKVORRICHTUNG ZUR ABSTÜTZUNG UND/ODER ZENTRIERUNG EINES WERKSTÜCKS

Title (fr)

SYSTÈME DE CONTRE-POUPÉE D'APPUI ET DE CENTRAGE D'UNE PIÈCE

Publication

EP 3347152 A1 20180718 (DE)

Application

EP 16756696 A 20160824

Priority

- DE 102015115206 A 20150910
- EP 2016069945 W 20160824

Abstract (en)

[origin: WO2017042029A1] The invention relates to a tailstock device (10) for supporting a workpiece in a machine tool, for example a grinder. The tailstock device (10) has a tailstock arm (16), mounted to be pivotable about a pivot axis (S), on the outer end (16a) of which a centering point (12) is arranged which is aligned parallel to the pivot axis (S). The tailstock arm is pivotable between a working position (A) and a rest position (R) using a pivot drive (30) with a first pneumatic cylinder (31). The movement of the piston (32) of the first pneumatic cylinder (31) is transferred to the tailstock arm (16) via a first coupling device (35). If the tailstock arm (16) is in the working position (A), the first coupling device (35) assumes an automatic locking position in which a force feedback, triggered by a torque which forces the tailstock arm (16) out of the working position (A) into the rest position (R), does not react or reacts in only a minor way upon the piston (32) of the first pneumatic cylinder (31).

IPC 8 full level

B23B 23/00 (2006.01); **B24B 41/06** (2012.01)

CPC (source: EP KR US)

B23B 23/00 (2013.01 - EP KR US); **B23B 23/005** (2013.01 - US); **B24B 5/04** (2013.01 - EP KR US); **B24B 41/062** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2017042029A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017042029 A1 20170316; AU 2016318559 A1 20180426; CN 107921548 A 20180417; DE 102015115206 A1 20170316; DE 102015115206 B4 20170831; EP 3347152 A1 20180718; JP 2018527207 A 20180920; KR 20180052655 A 20180518; TW 201718176 A 20170601; US 2019039144 A1 20190207

DOCDB simple family (application)

EP 2016069945 W 20160824; AU 2016318559 A 20160824; CN 201680052442 A 20160824; DE 102015115206 A 20150910; EP 16756696 A 20160824; JP 2018512178 A 20160824; KR 20187009077 A 20160824; TW 105123670 A 20160727; US 201615758943 A 20160824