

Title (en)

TOOL LOCKING DEVICE FOR A MACHINE TOOL, PARTICULARLY FOR A FOLDING PRESS

Title (de)

VERRIEGELUNGSVORRICHTUNG FÜR DIE WERKZEUGE EINER BEARBEITUNGSMASCHINE, INSBESONDERE FÜR EINE BIEGEPRESSE

Title (fr)

DISPOSITIF DE VERROUILLAGE POUR LES OUTILS D'UNE MACHINE À USINER, EN PARTICULIER POUR UNE PRESSE À PLIER

Publication

EP 3311931 B1 20190515 (EN)

Application

EP 17197771 A 20171023

Priority

IT 201600106997 A 20161024

Abstract (en)

[origin: EP3311931A1] The present invention concerns a locking device (1) for the tools of a machine tool, particularly of the folding press type, comprising: - a base body (3) provided with at least one insertion seat (5) for at least one tool (7); - a plurality of locking bodies (9) movable along an action direction (90) between an engagement position with the tool (7), to lock it inside the seat (5), and a disengaged position with the tool (7), to free it from the seat (5); - at least one mobile piston (11) able to be actuated to move the plurality of locking bodies (9) along the action direction (90) from the disengaged position to the engagement position with the tool (7). According to the invention, between the mobile piston (11) and the plurality of locking bodies (9) at least one lamina (13) is interposed that is configured to transmit a locking thrust from the mobile piston (11) to the plurality of locking bodies (9) and to move the plurality of locking bodies (9) along the action direction (90) from the disengaged position to the engagement position with the tool (7). A folding press comprising such a locking device (1) is also described.

IPC 8 full level

B21D 5/02 (2006.01)

CPC (source: EP)

B21D 5/0236 (2013.01); **B21D 5/0245** (2013.01)

Cited by

CN113751593A; NL2026128B1; US11033944B2; WO2022019753A1

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

DOCDB simple family (publication)

EP 3311931 A1 20180425; **EP 3311931 B1 20190515**; ES 2741641 T3 20200211; IT 201600106997 A1 20180424

DOCDB simple family (application)

EP 17197771 A 20171023; ES 17197771 T 20171023; IT 201600106997 A 20161024