

Title (en)
TOOL MOUNT, MACHINE TOOL HAVING SUCH A TOOL MOUNT AND METHOD FOR FIXING A MACHINING TOOL TO A TOOL MOUNT OF A MACHINE TOOL

Title (de)
WERKZEUGHALTERUNG, WERKZEUGMASCHINE MIT EINER DERARTIGEN WERKZEUGHALTERUNG SOWIE VERFAHREN ZUM FESTLEGEN EINES BEARBEITUNGSWERKZEUGES AN EINER WERKZEUGHALTERUNG EINER WERKZEUGMASCHINE

Title (fr)
PORTE-OUTIL, MACHINE-OUTIL COMPRENANT UN TEL PORTE-OUTIL, ET PROCÉDÉ POUR FIXER UN OUTIL D'USINAGE SUR UN PORTE-OUTIL D'UNE MACHINE-OUTIL

Publication
EP 2566635 B1 20150603 (DE)

Application
EP 11715510 A 20110418

Priority
• DE 102010028678 A 20100506
• EP 2011056081 W 20110418

Abstract (en)
[origin: WO2011138157A1] A tool mount (5) of a machine tool, preferably of a punching machine, has a tool holder (10), at least one tool abutment and also an axial clamping apparatus (19) and a radial clamping apparatus (21). The tool holder (10) serves to at least partially hold a machining tool (7), preferably a punching tool. At least one axial clamping element of the axial clamping apparatus (19) braces the machining tool (7) by way of the associated tool abutment in the direction of a clamping axis (25). Uncoupled therefrom, the radial clamping apparatus (21) braces the machining tool (7) by means of at least one radial clamping element in a direction perpendicular to the clamping axis (25) of the axial clamping apparatus (19). A machine tool, preferably a punching machine, is provided with a tool mount (5) of the above type. In the course of a method for fixing a machining tool (7) to a tool mount (5) of a machine tool, preferably for fixing a punching tool to the tool mount of a punching machine, the machining tool (7) is braced by means of an axial clamping apparatus (19) in the direction of a clamping axis (25), and, uncoupled therefrom, is braced by means of a radial clamping apparatus (21) in a direction perpendicular to the clamping axis (25) of the axial clamping apparatus (19) by way of an associated abutment of the tool mount (5).

IPC 8 full level
B21D 5/02 (2006.01); **B21D 28/34** (2006.01)

CPC (source: EP US)
B21D 5/0209 (2013.01 - EP US); **B21D 28/34** (2013.01 - EP US); **Y10T 29/49826** (2015.01 - EP US); **Y10T 83/9476** (2015.04 - EP US); **Y10T 279/29** (2015.01 - EP US)

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)
DE 102010028678 A1 20111110; **DE 102010028678 B4 20120119**; CN 102883832 A 20130116; CN 102883832 B 20141119; EP 2566635 A1 20130313; EP 2566635 B1 20150603; JP 2013525118 A 20130620; JP 5797743 B2 20151021; US 2013055874 A1 20130307; US 9302305 B2 20160405; WO 2011138157 A1 20111110

DOCDB simple family (application)
DE 102010028678 A 20100506; CN 201180022716 A 20110418; EP 11715510 A 20110418; EP 2011056081 W 20110418; JP 2013508423 A 20110418; US 201213667677 A 20121102