

Title (en)

Method and device for manufacturing a connection section with an end section as part of a tool

Title (de)

Verfahren und Vorrichtung zur Herstellung eines mit einer Endfläche versehenen Verbindungsabschnitts als Teil eines Werkzeuges

Title (fr)

Procédé et dispositif de fabrication d'une section de raccordement pourvue d'une face terminale comme élément d'un outil

Publication

EP 2839900 B1 20170712 (DE)

Application

EP 14161805 A 20140326

Priority

DE 102013010495 A 20130625

Abstract (en)

[origin: CN104249129A] The invention relates to a method for producing a connecting portion with an end face as part of a tool, in particular a drill or chisel fixed on an electric hammer tool rack in a manner of being axially movably, or the tool part being a part of a connecting rod, wherein the connecting portion comprises at least a longitudinal groove, of which at least has an end face facing the connecting portion is at least partially closed. The invention further relates to a semi-finished tool, a drill, a chisel or a rod as well as an apparatus for manufacturing the connecting portion. In the method, the semi-finished drill product may have a rod with a substantially cylindrical or polygonal, in particular square peripheral surface. Furthermore, the connecting portion is introduced into an enclosed die. In addition, the at least one longitudinal groove is impressed by the radial feeding of one or more moveable forming bodies in the enclosed die, whereby an elongation of the connecting portion in the region of the longitudinal groove causes the reduction of a cross-sectional area.

IPC 8 full level

B21K 5/10 (2006.01); **B23B 31/00** (2006.01); **B21J 5/12** (2006.01)

CPC (source: EP US)

B21K 5/10 (2013.01 - EP US); **B21J 5/12** (2013.01 - EP US)

Cited by

EP3639947A1; DE102018126093A1; EP3639946A1; DE102018126086A1; US11027327B2; DE102020007945A1; US11565306B2; DE102018126086B4

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 102013010495 A1 20150108; CN 104249129 A 20141231; CN 104249129 B 20180720; EP 2839900 A1 20150225; EP 2839900 B1 20170712

DOCDB simple family (application)

DE 102013010495 A 20130625; CN 201410291375 A 20140625; EP 14161805 A 20140326