

Title (en)

METHOD FOR PRODUCING A CONNECTING ELEMENT

Title (de)

VERFAHREN ZUM HERSTELLEN EINES VERBINDUNGSELEMENTS

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT D'ASSEMBLAGE

Publication

**EP 3720627 B1 20231018 (DE)**

Application

**EP 18807276 A 20181119**

Priority

- DE 102017222146 A 20171207
- EP 2018081769 W 20181119

Abstract (en)

[origin: WO2019110287A1] The invention relates to a method for producing a connecting element (40) comprising at least two ball-type sections (54, 56), wherein two ball-type sections are directly adjacent to one another or wherein two ball-type sections are connected to one another by a connection section, which method provides the step of rolling an integral blank that is cylindrical, at least in part, between at least two rolling tools, and the step of shaping the at least two ball-type sections and optionally the connection section during the rolling. The invention also relates to a connecting element and a rolling tool for producing a connecting element.

IPC 8 full level

**B21H 1/14** (2006.01); **B21H 1/18** (2006.01); **B21H 3/06** (2006.01); **B21H 7/00** (2006.01)

CPC (source: EP US)

**B21H 1/14** (2013.01 - EP); **B21H 1/18** (2013.01 - EP US); **B21H 3/06** (2013.01 - EP US); **B21H 1/14** (2013.01 - US); **B21H 7/002** (2013.01 - EP)

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)

**WO 2019110287 A1 20190613**; CN 111788022 A 20201016; CN 111788022 B 20230407; DE 102017222146 A1 20190613; EP 3720627 A1 20201014; EP 3720627 B1 20231018; EP 3720627 C0 20231018; US 11779999 B2 20231010; US 2020384524 A1 20201210

DOCDB simple family (application)

**EP 2018081769 W 20181119**; CN 201880078955 A 20181119; DE 102017222146 A 20171207; EP 18807276 A 20181119; US 201816769478 A 20181119