

Title (en)

METHOD FOR PRODUCING A CONNECTION ELEMENT, AND CONNECTION ELEMENT

Title (de)

VERFAHREN ZUM HERSTELLEN EINES VERBINDUNGSELEMENTS SOWIE VERBINDUNGSELEMENT

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT DE LIAISON ET ÉLÉMENT DE LIAISON

Publication

**EP 3049199 B1 20191106 (DE)**

Application

**EP 14765918 A 20140911**

Priority

- DE 102013110528 A 20130924
- EP 2014069361 W 20140911

Abstract (en)

[origin: WO2015043968A1] The invention relates to a method for producing a connection element, in particular for steel structures of towers, preferably for wind turbines and to a connection element or node element, wherein a flange (12) and a shell (14) integrally adjoining the flange (12) is produced from a blank (40) by means of a flow forming process, and then the end of the shell (14) opposite the flange (12) is adapted to the contour of the component to which the shell (14) is to be connected. The invention further relates to a connection and node element.

IPC 8 full level

**B21D 22/16** (2006.01); **E04H 12/10** (2006.01)

CPC (source: EP US)

**B21D 22/16** (2013.01 - EP US); **B21D 39/046** (2013.01 - US); **E04H 12/085** (2013.01 - US); **E04H 12/10** (2013.01 - 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 102013110528 A1 20150326**; CN 105579160 A 20160511; EP 3049199 A1 20160803; EP 3049199 B1 20191106;  
US 10352060 B2 20190716; US 2016215517 A1 20160728; WO 2015043968 A1 20150402

DOCDB simple family (application)

**DE 102013110528 A 20130924**; CN 201480052450 A 20140911; EP 14765918 A 20140911; EP 2014069361 W 20140911;  
US 201415023842 A 20140911