Title (en)

METHOD FOR STRENGTHENING AND CALIBRATING A PIPE SEGMENT

Title (de)

VERFAHREN ZUR FESTIGUNG UND KALIBRIERUNG EINES ROHRABSCHNITTES

Title (fr)

PROCÉDÉ DE CONSOLIDATION ET DE CALIBRAGE D'UN SEGMENT DE TUBE

Publication

EP 2983845 A1 20160217 (DE)

Application

EP 14716337 A 20140410

Priority

- DE 102013206577 A 20130412
- EP 2014057242 W 20140410

Abstract (en)

[origin: CA2908573A1] The invention relates to a method and a device (60) for producing an outer pipe (12) of a telescopic support, to the telescopic support, and to the outer pipe (12) contained by the telescopic support. For reasons of weight and stability, the outer pipe (12) can be produced from a standardization galvanized steel pipe having a large outside diameter and small wall thickness. In the method, a pipe segment (76) of the outer pipe (12) is expanded by means of a die (62) and then narrowed back to the original outside diameter by means of a ring (64). A strengthening of the pipe segment (76) and a calibration of the outside diameter of the pipe segment (76) can thereby be achieved. An external thread (36) can be rolled onto the pipe segment (76).

IPC 8 full level

B21D 41/02 (2006.01); **B21D 41/04** (2006.01); **E04G 25/04** (2006.01); **E04G 25/06** (2006.01)

CPC (source: EP RU US)

B21C 1/22 (2013.01 - US); **B21D 3/16** (2013.01 - RU); **B21D 41/00** (2013.01 - RU); **B21D 41/026** (2013.01 - EP US); **B21H 3/02** (2013.01 - EP US); **E04G 17/14** (2013.01 - US); **E04G 25/04** (2013.01 - RU); **E04G 25/061** (2013.01 - EP US); **E04G 25/065** (2013.01 - EP US); E04G 2025/042 (2013.01 - EP US)

Citation (search report)

See references of WO 2014167043A1

Cited by

CN112466100A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102013206577 A1 20141016; AR 095857 A1 20151118; AU 2014253135 A1 20151203; AU 2014253135 B2 20170202; CA 2908573 A1 20141016; CA 2908573 C 20171017; CN 105121052 A 20151202; CN 105121052 B 20180612; EP 2983845 A1 20160217; EP 2983845 B1 20170719; EP 3199259 A1 20170802; EP 3199259 B1 20181226; ES 2643364 T3 20171122; ES 2705598 T3 20190326; HK 1212651 A1 20160617; HR P20171513 T1 20171117; HR P20190094 T1 20190517; HU E036772 T2 20180730; HU E042042 T2 20190628; NO 3075044 T3 20180331; PL 2983845 T3 20171229; PL 3199259 T3 20190731; PT 2983845 T 20171025; PT 3199259 T 20190124; RU 2015148348 A 20170516; RU 2630102 C2 20170905; TR 201901071 T4 20190221; US 10077567 B2 20180918; US 2016024808 A1 20160128; WO 2014167043 A1 20141016

DOCDB simple family (application)

DE 102013206577 A 20130412; AR P140101576 A 20140411; AU 2014253135 A 20140410; CA 2908573 A 20140410; CN 201480020803 A 20140410; EP 14716337 A 20140410; EP 17151898 A 20140410; EP 2014057242 W 20140410; ES 14716337 T 20140410; ES 17151898 T 20140410; HK 16100753 A 20160122; HR P20171513 T 20171009; HR P20190094 T 20190115; HU E14716337 A 20140410; HU E17151898 A 20140410; NO 14806179 A 20141126; PL 14716337 T 20140410; PL 17151898 T 20140410; PT 14716337 T 20140410; PT 17151898 T 20140410; RU 2015148348 A 20140410; TR 201901071 T 20140410; US 201514873387 A 20151002