

Title (en)

METHOD FOR PRODUCING A QUENCHED AND TEMPERED SEAMLESSLY HOT-FABRICATED STEEL PIPE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES VERGÜTETEN NAHTLOS WARMGEFERTIGTEN STAHLROHRES

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN TUYAU EN ACIER RÉALISÉ À CHAUD SANS SOUDURE, TREMPÉ ET REVENU

Publication

**EP 3033186 A1 20160622 (DE)**

Application

**EP 14752294 A 20140811**

Priority

- DE 102013108803 A 20130814
- EP 2014067170 W 20140811

Abstract (en)

[origin: WO2015022294A1] The invention relates to a method for producing a quenched and tempered, seamlessly hot-rolled steel pipe, according to which method a hollow block heated to forming temperature is rolled in a rolling mill into a pipe having a finished diameter after the rolling and then is quenched and tempered and the diameter of the pipe increases during the quenching and tempering with corresponding quenching and tempering parameters. In order to specify a production method for quenched and tempered seamlessly hot-fabricated steel pipes that enables more economical production of such pipes while the geometric requirements for the quenched and tempered finished pipe are satisfied, according to the invention, with knowledge of the diameter growth of the pipe during the quenching and tempering, the finished diameter of the pipe to be quenched and tempered is set after the rolling in the rolling mill.

IPC 8 full level

**B21B 23/00** (2006.01); **C21D 1/18** (2006.01); **C21D 1/60** (2006.01); **C21D 8/10** (2006.01); **C21D 9/08** (2006.01); **C21D 9/14** (2006.01)

CPC (source: EP US)

**C21D 1/18** (2013.01 - EP US); **C21D 1/60** (2013.01 - EP US); **C21D 8/105** (2013.01 - EP US); **C21D 9/08** (2013.01 - EP US); **C21D 9/085** (2013.01 - EP US); **C21D 9/14** (2013.01 - EP US); **B21B 23/00** (2013.01 - EP US); **B21B 2261/08** (2013.01 - EP US)

Citation (search report)

See references of WO 2015022294A1

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)

**WO 2015022294 A1 20150219**; AR 097813 A1 20160420; BR 112016000039 B1 20201027; DE 102013108803 A1 20150219; EA 030732 B1 20180928; EA 201690242 A1 20160630; EP 3033186 A1 20160622; EP 3033186 B1 20170712; ES 2641572 T3 20171110; MX 2016001962 A 20170228; PL 3033186 T3 20171229; UA 118966 C2 20190410; US 10100384 B2 20181016; US 2016376677 A1 20161229

DOCDB simple family (application)

**EP 2014067170 W 20140811**; AR P140102884 A 20140801; BR 112016000039 A 20140811; DE 102013108803 A 20130814; EA 201690242 A 20140811; EP 14752294 A 20140811; ES 14752294 T 20140811; MX 2016001962 A 20140811; PL 14752294 T 20140811; UA A201512518 A 20140811; US 201414911042 A 20140811