

Title (en)

METHOD AND DEVICE FOR SHAPING WIRE-SHAPED AND ROD-SHAPED STARTING MATERIALS CLOSE TO FINISHING WIRE GAUGE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENDMASSNAHEN VERFORMUNG VON DRAHT- UND STABFÖRMIGEM VORMATERIAL

Title (fr)

PROCEDE ET DISPOSITIF DE FAÇONNAGE A PROXIMITE DE LA TAILLE FINALE DE PRODUITS DE DEPART EN FORME DE FILS ET DE BARRES

Publication

**EP 1812609 A1 20070801 (DE)**

Application

**EP 05789611 A 20050913**

Priority

- DE 2005001599 W 20050913
- DE 102004048443 A 20041002

Abstract (en)

[origin: WO2006050680A1] The invention relates to a method for shaping wire-shaped and rod-shaped starting materials (17) by rolling, especially for rolling flat profiled elements (18) consisting of a wire rod. The starting material (17) is heated in a heating station (5) at a desired temperature, shaped during at least one rolling process (7), and then cooled. According to the invention, once the starting material (17) has been heated in the heating station (5), it is cooled in a cooling station (14) to a pre-determinable rolling temperature; it is then shaped into a flat profiled element (18) by rolling close to the gauge block, and then cooled and/or subjected to a subsequent treatment according to joining properties to be correspondingly adjusted. In this way, a series of different methods can be carried out by means of an installation for rolling starting materials with a patented structure, an austenite structure, a bainite structure or an undercooled austenite structure.

IPC 8 full level

**C21D 9/52** (2006.01); **B21B 1/16** (2006.01); **B21B 1/18** (2006.01); **B21B 45/00** (2006.01); **B21B 45/02** (2006.01); **C21D 8/06** (2006.01); **C21D 9/573** (2006.01); **C21D 9/62** (2006.01)

CPC (source: EP US)

**B21B 1/166** (2013.01 - EP US); **B21B 45/004** (2013.01 - EP US); **B21B 45/0224** (2013.01 - EP US); **B21B 45/023** (2013.01 - EP US); **C21D 8/065** (2013.01 - EP US); **C21D 9/525** (2013.01 - EP US); **C21D 9/5732** (2013.01 - EP US); **B21B 1/18** (2013.01 - EP US); **B21B 2045/006** (2013.01 - EP US); **C21D 9/62** (2013.01 - EP US)

Citation (search report)

See references of WO 2006050680A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102004048443 B3 20051201**; BR PI0516301 A 20080902; CA 2582731 A1 20060518; DE 112005003068 A5 20070913; EP 1812609 A1 20070801; EP 1812609 B1 20170301; MX 2007003830 A 20070420; US 2008006350 A1 20080110; WO 2006050680 A1 20060518

DOCDB simple family (application)

**DE 102004048443 A 20041002**; BR PI0516301 A 20050913; CA 2582731 A 20050913; DE 112005003068 T 20050913; DE 2005001599 W 20050913; EP 05789611 A 20050913; MX 2007003830 A 20050913; US 66444205 A 20050913