

Title (en)  
PRECISION-ROLLING METHOD

Title (de)  
PRÄZISIONSWALZVERFAHREN

Title (fr)  
PROCEDE DE LAMINAGE DE PRECISION

Publication  
**EP 1030746 B1 20020508 (DE)**

Application  
**EP 98949818 A 19981021**

Priority  
• AT 9800255 W 19981021  
• AT 193297 A 19971114

Abstract (en)  
[origin: WO9925499A1] The present invention relates to a precision rolling method intended for producing rolled products (1) in the shape of rods or wires while respecting the shape and size allowances. In order to provide good accessibility to the rolling stands (15, 16), the method of the present invention comprises combining the following properties: rolling the product to be rolled (1) in at least one dual rolling stand (15) with an open pass (5) starting from any cross section in order to produce a rolled product (1) with a polygonal and essentially tetragonal cross section; and guiding the rolled product (1) into another rolling stand (16) following a path of a predetermined length along one or more longitudinal edges and/or along the surfaces of said product (1) which are adjacent to the longitudinal edges, and subsequently rolling the same so as to obtain a rolled product (1) with a round cross section in at least one closed pass (6). During the rolling process, the rolling forces are applied in the form of a star from at least three direction so as to deform the rolled product (1).

IPC 1-7  
**B21B 1/18**; **B21B 13/10**; **B21B 39/14**

IPC 8 full level  
**B21B 1/16** (2006.01); **B21B 1/18** (2006.01); **B21B 13/10** (2006.01); **B21B 39/14** (2006.01); **B21B 31/02** (2006.01); **B21B 31/04** (2006.01); **B21B 31/10** (2006.01); **B21B 35/10** (2006.01)

CPC (source: EP US)  
**B21B 1/18** (2013.01 - EP US); **B21B 13/103** (2013.01 - EP US); **B21B 39/14** (2013.01 - EP US); **B21B 31/04** (2013.01 - EP US); **B21B 31/103** (2013.01 - EP US); **B21B 35/10** (2013.01 - EP US); **B21B 2031/026** (2013.01 - EP US)

Cited by  
CN102671937A

Designated contracting state (EPC)  
DE GB IT SE

DOCDB simple family (publication)  
**WO 9925499 A1 19990527**; AT 406644 B 20000725; AT A193297 A 19991215; DE 59804086 D1 20020613; EP 1030746 A1 20000830; EP 1030746 B1 20020508; JP 2001523575 A 20011127; JP 4316796 B2 20090819; US 6216517 B1 20010417

DOCDB simple family (application)  
**AT 9800255 W 19981021**; AT 193297 A 19971114; DE 59804086 T 19981021; EP 98949818 A 19981021; JP 2000520922 A 19981021; US 55456100 A 20000713