

Title (en)

Method for forming a workpiece and rolling machine

Title (de)

Verfahren zum Umformen eines Werkstückes und Walzmaschine

Title (fr)

Procédé pour le formage d' une pièce et machine de laminage

Publication

EP 1454684 A2 20040908 (DE)

Application

EP 04001862 A 20040129

Priority

- DE 10309536 A 20030304
- DE 10319258 A 20030428

Abstract (en)

A rolling mill with a new process control has work pieces forged between two profiled rollers. The speed and position is controlled on at least one roller with the rolling speed controlled w.r.t. the position of the work piece. The process cycle comprises a positioning phase at a slow speed, a rolling phase at a higher speed and a final phase in which the work piece is returned at a slower speed.

Abstract (de)

In der Querkeilwalzmaschine (1) gemäß der Erfindung ist als Antriebsmotor (4) ein Permanentmagnet-Motor, insbesondere ein Torque-Motor vorgesehen. Ferner wird die Rotationsgeschwindigkeit der Walzen (2,3) in Abhängigkeit von deren Drehposition gesteuert oder geregelt. <IMAGE>

IPC 1-7

B21H 1/00; **B21H 1/18**

IPC 8 full level

B21B 1/16 (2006.01); **B21H 1/00** (2006.01); **B21B 37/58** (2006.01); **B21H 1/18** (2006.01); **B21B 31/04** (2006.01); **B21B 31/08** (2006.01); **B21B 35/00** (2006.01); **B21B 35/14** (2006.01); **B21B 37/46** (2006.01)

CPC (source: EP US)

B21B 37/58 (2013.01 - EP US); **B21H 1/00** (2013.01 - EP US); **B21H 1/18** (2013.01 - EP US); **B21B 31/04** (2013.01 - EP US); **B21B 31/08** (2013.01 - EP US); **B21B 35/00** (2013.01 - EP US); **B21B 35/14** (2013.01 - EP US); **B21B 37/46** (2013.01 - EP US)

Citation (applicant)

- DE 1477088 C3 19740411
- EP 1256399 A1 20021113 - SMS EUMUCO GMBH [DE]
- DE 19526071 A1 19970123 - ROLLWALZTECHNIK ABELE & HOELTI [DE]
- DE 2131300 B2 19740411
- US 2001039820 A1 20011115 - SHINBUTSU TOSHINAKA [JP], et al
- US 2038783 A 19360428 - JOSEF GASSEN
- JP H10235416 A 19980908 - TOSHIBA F A SYSTEM ENG, et al
- EP 0108557 A2 19840516 - KENNECOTT CORP [US]
- JP H02182339 A 19900717 - KOBE STEEL LTD

Cited by

CN102091750A; CN117772795A

Designated contracting state (EPC)

CZ DE FR IT

DOCDB simple family (publication)

DE 20312485 U1 20031016; CN 1281347 C 20061025; CN 1530183 A 20040922; EP 1454684 A2 20040908; EP 1454684 A3 20050803; EP 1454684 B1 20140507; JP 2004268145 A 20040930; JP 3889006 B2 20070307; US 2004231380 A1 20041125; US 2007044533 A1 20070301; US 7225656 B2 20070605; US 7406853 B2 20080805

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