

Title (en)

METHOD FOR THE COLD DEFORMATION OF A CONTINUOUS METAL STRIP

Title (de)

VERFAHREN ZUM KALTUMFORMEN EINES ENDLOSMETALLSTREIFENS

Title (fr)

PROCÉDÉ DE DÉFORMATION À FROID D'UNE BANDE DE MÉTAL ININTERROMPUE

Publication

EP 2878391 A4 20160330 (EN)

Application

EP 12881842 A 20120727

Priority

RU 2012000615 W 20120727

Abstract (en)

[origin: EP2878391A1] The invention relates to the pressure treatment of metals, specifically to producing a metal strip using cold deformation. The strip is consecutively drawn with back and front tension through bending devices. Moreover, the degree of deformation of a strip is regulated in each bending device by means of changing the ratio of the speed of the strip exiting a bending device to the speed of that strip entering that device, in such a way as to avoid a break in the metal, the required number of bending devices being selected on the basis of the total stretch factor of the strip and on its maximum allowable stretch factor. The result is increased deformation of the strip and reduced energy consumption.

IPC 8 full level

B21C 37/02 (2006.01); **B21D 1/00** (2006.01)

CPC (source: EP US)

B21D 1/05 (2013.01 - EP US)

Citation (search report)

- [Y] DE 10342798 B3 20050310 - SIEMENS AG [DE]
- [Y] DE 102008045340 A1 20100304 - SIEMENS AG [DE]
- [Y] US 5666836 A 19970916 - BONNEFONT MARC [FR], et al
- [Y] US 3777532 A 19731211 - NOE O
- See references of WO 2014017944A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2878391 A1 20150603; EP 2878391 A4 20160330; RU 2013147504 A 20150427; RU 2557843 C2 20150727; US 2015135790 A1 20150521; WO 2014017944 A1 20140130

DOCDB simple family (application)

EP 12881842 A 20120727; RU 2012000615 W 20120727; RU 2013147504 A 20120727; US 201514605448 A 20150126