

Title (en)  
Straightening device for steel - and metallic strips

Title (de)  
Zugreckanlage für Stahl- und Metallbänder

Title (fr)  
Dispositif de redressage par étirage pour bandes d'acier ou de métal

Publication  
**EP 1245301 A3 20030507 (DE)**

Application  
**EP 02002495 A 20020202**

Priority  
DE 10114883 A 20010326

Abstract (en)  
[origin: EP1245301A2] The tensile drawing assembly, for steel and other metal strip materials in a thickness of 0.1-4.0 mm, has an initial drawing zone (R1) with a set of brake rollers (1-4) and a powered roller (5). The powered roller and a set of drawing rollers (6-9) form a second drawing zone (R2). The length of the two drawing zones is at least 0.5 times the maximum strip width and up to at least 1000 times the maximum strip width. The brake rollers have an adjustable convex/concave contour. The in-line crossbow curvature is measured on-line for curvature correction. The drawn strip is measured on-line for flatness, for corrections to the drawing process.

IPC 1-7  
**B21D 1/05**

IPC 8 full level  
**B21D 1/05** (2006.01)

CPC (source: EP US)  
**B21D 1/05** (2013.01 - EP US)

Citation (search report)

- [Y] US 6109084 A 20000829 - HUTZENLAUB ARMIN [DE], et al
- [Y] EP 0824046 A1 19980218 - KAWASAKI STEEL CO [JP]
- [A] US 5341664 A 19940830 - NOE ROLF [DE], et al
- [A] US 5535610 A 19960716 - NOE ROLF [DE], et al
- [A] US 3783667 A 19740108 - MUNCHBACH C
- [A] THIES H ET AL: "EINFLUSSGROESSEN BEIM STRECKBIEGERICHTEN, INSBESONDERE AUF DIE EBENHEIT VON STAHLBAENDERN", STAHL UND EISEN, VERLAG STAHL EISEN GMBH. DUSSELDORF, DE, vol. 111, no. 4, 15 April 1991 (1991-04-15), pages 87 - 93,204, XP000215732, ISSN: 0340-4803

Cited by  
CN106563698A; CN104624728A; EP1796858B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1245301 A2 20021002; EP 1245301 A3 20030507; EP 1245301 B1 20070321**; AT E357299 T1 20070415; DE 10114883 C1 20021031; DE 50209747 D1 20070503; ES 2282334 T3 20071016; US 2002157440 A1 20021031; US 6691541 B2 20040217

DOCDB simple family (application)  
**EP 02002495 A 20020202**; AT 02002495 T 20020202; DE 10114883 A 20010326; DE 50209747 T 20020202; ES 02002495 T 20020202; US 10753602 A 20020326