

Title (en)

METHOD AND DEVICE FOR WINDING A THIN METAL STRIP, ESPECIALLY A HOT ROLLED OR COLD ROLLED THIN STEEL STRIP

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HASPELN VON DÜNNEM METALLBAND, INSbesondere VON WARM- ODER KALTGEWALZTEM DÜNNEN STAHLBAND

Title (fr)

PROCEDES ET DISPOSITIFS POUR BOBINER UNE BANDE DE METAL MINCE, NOTAMMENT UN FEUILLARD D'ACIER MINCE LAMINE A CHAUD OU A FROID

Publication

EP 1420903 A2 20040526 (DE)

Application

EP 02797597 A 20020820

Priority

- DE 10142179 A 20010829
- EP 0209285 W 20020820

Abstract (en)

[origin: WO03020455A2] The invention relates to a plurality of methods and devices which are used to wind a thin metal strip (1), especially a hot rolled or cold rolled thin steel strip, onto a winding mandrel (3a), the diameter thereof being adjusted. To begin with, the coil inner windings (12,18) are wound onto the adjusted diameter of the winding mandrel, and after the coil (11) has been wound, the winding mandrel (3a) is removed or the coil (11) taken off. According to a first method, in order to prevent individual windings (12,18) from detaching themselves in the eye of the coil (15) due to stiffening of windings, at least one profiled rise or profiled cavity is pressed into one inner winding or a plurality of adjacent inner windings (12,18) on the circumference during rotation of the coil.

IPC 1-7

B21C 47/24

IPC 8 full level

B21C 47/02 (2006.01); **B21C 47/00** (2006.01); **B21C 47/24** (2006.01); **B21C 47/28** (2006.01); **B21C 47/30** (2006.01)

CPC (source: EP KR US)

B21C 47/02 (2013.01 - EP US); **B21C 47/24** (2013.01 - EP KR US); **B21C 47/26** (2013.01 - EP US); **B21C 47/30** (2013.01 - EP US);
B21C 47/32 (2013.01 - EP US)

Citation (search report)

See references of WO 03020455A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03020455 A2 20030313; WO 03020455 A3 20030925; AT E324951 T1 20060615; AU 2002333480 A1 20030318; BR 0212217 A 20040921; BR 0212217 B1 20101103; CA 2458536 A1 20030313; CA 2458536 C 20101012; CA 2675423 A1 20030313; CA 2675425 A1 20030313; CA 2675709 A1 20030313; CN 1269586 C 20060816; CN 1551811 A 20041201; DE 10142179 A1 20030320; DE 50206683 D1 20060608; EP 1420903 A2 20040526; EP 1420903 B1 20060503; ES 2261779 T3 20061116; JP 2005501719 A 20050120; KR 100863464 B1 20081016; KR 20040034679 A 20040428; RU 2004109158 A 20050520; RU 2299774 C2 20070527; UA 78224 C2 20070315; US 2004244452 A1 20041209; US 2007180878 A1 20070809; US 2007186605 A1 20070816; US 2007186606 A1 20070816; US 2010263423 A1 20101021; US 7191627 B2 20070320; US 7392682 B2 20080701; US 8261589 B2 20120911; US 8387431 B2 20130305; ZA 200400553 B 20040823

DOCDB simple family (application)

EP 0209285 W 20020820; AT 02797597 T 20020820; AU 2002333480 A 20020820; BR 0212217 A 20020820; CA 2458536 A 20020820; CA 2675423 A 20020820; CA 2675425 A 20020820; CA 2675709 A 20020820; CN 02817126 A 20020820; DE 10142179 A 20010829; DE 50206683 T 20020820; EP 02797597 A 20020820; ES 02797597 T 20020820; JP 2003524751 A 20020820; KR 20047003073 A 20020820; RU 2004109158 A 20020820; UA 2004032267 A 20020820; US 48803904 A 20040719; US 70343307 A 20070207; US 70343407 A 20070207; US 70343507 A 20070207; US 79906510 A 20100417; ZA 200400553 A 20040126