

Title (en)

METHOD AND DEVICE FOR WINDING METAL STRIP MATERIAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFWICKELN VON METALLBAND

Title (fr)

PROCÉDÉ ET DISPOSITIF D'ENROULEMENT DE RUBAN MÉTALLIQUE

Publication

EP 2321210 A1 20110518 (DE)

Application

EP 09769008 A 20090625

Priority

- EP 2009004598 W 20090625
- DE 102008030145 A 20080627

Abstract (en)

[origin: CA2728329A1] The invention relates to a method and a decoiler mandrel for winding metal strip material (110), wherein the decoiler mandrel (100) comprises a mandrel body (120), a plurality of radially spreadable segments (115) being disposed about the mandrel body (120), and a plurality of hydraulic cylinders (116) through which the segments (115) are moved radially. In order to also be able to wind the metal strip material utilizing a circular coil eye when the friction is different in the individual cylinders, the invention provides that each cylinder (116) of the plurality is controlled individually.

IPC 8 full level

B21C 47/02 (2006.01); **B21C 47/30** (2006.01); **B65H 75/24** (2006.01)

CPC (source: EP KR US)

B21C 47/02 (2013.01 - EP KR US); **B21C 47/30** (2013.01 - EP KR US); **B65H 18/04** (2013.01 - KR); **B65H 75/249** (2021.05 - EP KR US); **B65H 2301/413** (2013.01 - KR); **B65H 2701/173** (2013.01 - KR); **Y10T 279/1024** (2015.01 - US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

DE 102008030145 A1 20091231; AR 072382 A1 20100825; AU 2009262489 A1 20091230; AU 2009262489 A8 20110310; CA 2728329 A1 20091230; CN 102076587 A 20110525; EP 2321210 A1 20110518; EP 2321210 B1 20130529; JP 2011525427 A 20110922; KR 101238691 B1 20130304; KR 20110015680 A 20110216; MX 2010014202 A 20110303; RU 2011102957 A 20120810; RU 2467817 C2 20121127; TW 201012564 A 20100401; TW I359782 B 20120311; UA 99535 C2 20120827; US 2011107810 A1 20110512; US 8523099 B2 20130903; WO 2009156159 A1 20091230; ZA 201008762 B 20120125

DOCDB simple family (application)

DE 102008030145 A 20080627; AR P090102386 A 20090626; AU 2009262489 A 20090625; CA 2728329 A 20090625; CN 200980125651 A 20090625; EP 09769008 A 20090625; EP 2009004598 W 20090625; JP 2011515208 A 20090625; KR 20117000132 A 20090625; MX 2010014202 A 20090625; RU 2011102957 A 20090625; TW 98121499 A 20090626; UA A201100893 A 20090625; US 200913001457 A 20090625; ZA 201008762 A 20101207