

Title (en)
ROLLING PLANT AND METHOD FOR GENERATING A METAL STRIP

Title (de)
WALZANLAGE UND VERFAHREN ZUM ERZEUGEN EINES METALLBANDES

Title (fr)
INSTALLATION DE LAMINAGE ET PROCEDE DE PRODUCTION D'UNE BANDE METALLIQUE

Publication
EP 1778420 A1 20070502 (DE)

Application
EP 06762593 A 20060714

Priority
• EP 2006006910 W 20060714
• DE 102005034031 A 20050718

Abstract (en)
[origin: US2007266544A1] The invention relates to a rolling installation (100) and a method for its operation known rolling installations (100) typically include a reversing stand (110) for rolling a metal strip (200) in several steps until the metal strip reaches a desired thickness. The reversing stand (110) is usually associated with at least one reversing reel (130) with a reel mandrel (132) for an intermittent storage of the metal strip (200) after separate rolling steps. In addition, the known rolling installations (100) have a sensor device for determining the thickness of the metal strip (200). In order to economically realize a high flexibility when using primary materials having different thicknesses, it is proposed according to the invention, to provide the rolling installation with a winding sleeve exchange device (140) for pushing a winding sleeve (134) onto the reel mandrel (132) before an intermittent storage of the metal strip (200) and for removing the winding sleeve between two rolling steps when the thickness of the metal strip, which is determined by the sensor device (120) is greater than a desired thickness but already smaller than a thickness threshold.

IPC 8 full level
B21C 47/04 (2006.01); **B21B 1/32** (2006.01); **B21C 47/18** (2006.01)

CPC (source: EP KR US)
B21B 1/32 (2013.01 - EP KR US); **B21B 15/00** (2013.01 - KR); **B21C 47/045** (2013.01 - EP KR US); **B21C 47/18** (2013.01 - EP KR US); **B21B 2015/0057** (2013.01 - KR); **Y10T 29/49** (2015.01 - EP US)

Citation (search report)
See references of WO 2007009672A1

Cited by
CN104759490A; EP2982452A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
US 2007266544 A1 20071122; US 7540178 B2 20090602; AT E392960 T1 20080515; BR PI0605837 A 20071218; CA 2577700 A1 20070125; CA 2577700 C 20120529; CN 100522407 C 20090805; CN 101018624 A 20070815; DE 102005034031 A1 20070125; DE 502006000686 D1 20080605; EP 1778420 A1 20070502; EP 1778420 B1 20080423; ES 2303722 T3 20080816; JP 2008505767 A 20080228; JP 4729574 B2 20110720; KR 100841728 B1 20080627; KR 20070054184 A 20070528; RU 2007110221 A 20080927; RU 2343022 C1 20090110; TW 200704459 A 20070201; TW I356738 B 20120121; WO 2007009672 A1 20070125; ZA 200701024 B 20080430

DOCDB simple family (application)
US 66224806 A 20060714; AT 06762593 T 20060714; BR PI0605837 A 20060714; CA 2577700 A 20060714; CN 200680000612 A 20060714; DE 102005034031 A 20050718; DE 502006000686 T 20060714; EP 06762593 A 20060714; EP 2006006910 W 20060714; ES 06762593 T 20060714; JP 2007525308 A 20060714; KR 20077002742 A 20070202; RU 2007110221 A 20060714; TW 95125045 A 20060710; ZA 200701024 A 20070129