

Title (en)
COLD ROLLING MILL AND METHOD FOR COLD ROLL FORMING A METALLIC STRIP

Title (de)
KALTWALZERK SOWIE VERFAHREN ZUM KALTWALZEN VON METALLISCHEM BAND

Title (fr)
LAMINOIR A FROID ET PROCEDE DE LAMINAGE A FROID D'UNE BANDE METALLIQUE

Publication
EP 1406735 A1 20040414 (DE)

Application
EP 02767196 A 20020710

Priority
• DE 10133756 A 20010711
• EP 0207689 W 20020710

Abstract (en)
[origin: WO03008122A1] The invention relates to a method for cold roll forming a metallic strip (8), a steel strip in particular, comprising a single frame (1), having means for adjusting a roll gap, a winding device (9) which is arranged upstream of the cold roll single frame for unwinding the strip (8), and a winding device (10) which is arranged downstream of the cold roll single frame (1) for winding the strip (8). The aim of the invention is to eliminate all problems connected to strip tension when the thickness of the strip varies and to increase the speed of the strip. To achieve this, a strip accumulator (2) is arranged between the upstream winding device (9) and the single frame (1) for controlling the mass flow and/or tension of the rolling process, particularly when flexible rollers are used.

IPC 1-7
B21B 37/50; **B21B 37/16**

IPC 8 full level
B21B 1/22 (2006.01); **B21B 37/00** (2006.01); **B21B 37/16** (2006.01); **B21B 37/24** (2006.01); **B21B 37/48** (2006.01); **B21B 37/50** (2006.01); **B21B 37/54** (2006.01); **B21B 39/08** (2006.01); **B21C 47/00** (2006.01); **B21C 49/00** (2006.01); **B21B 1/36** (2006.01); **B21B 41/00** (2006.01)

CPC (source: EP KR US)
B21B 37/24 (2013.01 - EP US); **B21B 37/48** (2013.01 - EP US); **B21B 37/50** (2013.01 - KR); **B21B 37/54** (2013.01 - EP US); **B21B 39/08** (2013.01 - EP US); **B21B 1/36** (2013.01 - EP US); **B21B 41/00** (2013.01 - EP US); **B21B 2037/002** (2013.01 - EP US)

Citation (search report)
See references of WO 03008122A1

Cited by
CN102847724A

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 03008122 A1 20030130; **WO 03008122 A8 20041007**; AT E288798 T1 20050215; BR 0209768 A 20040727; CA 2453297 A1 20030130; CN 1283380 C 20061108; CN 1527750 A 20040908; CZ 20033418 A3 20041215; DE 10133756 A1 20030130; DE 50202231 D1 20050317; EP 1406735 A1 20040414; EP 1406735 B1 20050209; ES 2235086 T3 20050701; JP 2005500163 A 20050106; KR 20040014541 A 20040214; RU 2004103859 A 20050510; RU 2293616 C2 20070220; TW 587965 B 20040521; US 2004177666 A1 20040916; ZA 200308881 B 20040220

DOCDB simple family (application)
EP 0207689 W 20020710; AT 02767196 T 20020710; BR 0209768 A 20020710; CA 2453297 A 20020710; CN 02814003 A 20020710; CZ 20033418 A 20020710; DE 10133756 A 20010711; DE 50202231 T 20020710; EP 02767196 A 20020710; ES 02767196 T 20020710; JP 2003513719 A 20020710; KR 20037015711 A 20031201; RU 2004103859 A 20020710; TW 91113465 A 20020620; US 48370604 A 20040217; ZA 200308881 A 20031114