

Title (en)
ROLL STAND FOR ROLLING A PRODUCT, IN PARTICULAR MADE OF METAL

Title (de)
WALZGERÜST ZUM WALZEN EINES INSBESONDERE METALLISCHEN GUTS

Title (fr)
CAGE DE LAMINOIR POUR LAMINER UN PRODUIT NOTAMMENT MÉTALLIQUE

Publication
EP 2379241 A1 20111026 (DE)

Application
EP 09799260 A 20091215

Priority
• EP 2009008989 W 20091215
• DE 102008062402 A 20081217
• DE 102009021414 A 20090515

Abstract (en)
[origin: CA2745945A1] The invention relates to a roll stand for rolling a product, in particular made of metal, comprising a pair of first rollers contacted by a pair of second rollers supporting the first rollers, wherein the first roller and the second rollers have an asymmetrical radius curve (CVC grind) relative to a center plane, wherein the radius curve of the first rollers is represented by a polynomial of the third or fifth order. In order to design the wedging of a second roller supporting a first roller such that optimal operating conditions are set, the invention proposes that the radius curve of the second roller is given by a polynomial of the third or fifth order, wherein special relationships are prescribed for the ratios between the coefficients.

IPC 8 full level
B21B 13/14 (2006.01); **B21B 27/02** (2006.01)

CPC (source: EP KR US)
B21B 13/14 (2013.01 - KR); **B21B 13/142** (2013.01 - EP US); **B21B 27/02** (2013.01 - KR); **B21B 27/021** (2013.01 - EP US); **B21B 37/40** (2013.01 - EP US); **B21B 2013/025** (2013.01 - EP US); **B21B 2013/028** (2013.01 - EP US)

Citation (search report)
See references of WO 2010075961A1

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 SM TR

DOCDB simple family (publication)
DE 102009021414 A1 20100701; BR PI0923000 A2 20151215; CA 2745945 A1 20100708; CA 2745945 C 20140204; CN 102256715 A 20111123; CN 102256715 B 20140205; EP 2379241 A1 20111026; EP 2379241 B1 20140212; ES 2449867 T3 20140321; JP 2012511432 A 20120524; JP 5506815 B2 20140528; KR 101312453 B1 20130927; KR 20110083721 A 20110720; RU 2011129608 A 20130127; UA 100613 C2 20130110; US 2011289996 A1 20111201; US 9180503 B2 20151110; WO 2010075961 A1 20100708

DOCDB simple family (application)
DE 102009021414 A 20090515; BR PI0923000 A 20091215; CA 2745945 A 20091215; CN 200980151893 A 20091215; EP 09799260 A 20091215; EP 2009008989 W 20091215; ES 09799260 T 20091215; JP 2011539964 A 20091215; KR 20117013065 A 20091215; RU 2011129608 A 20091215; UA A201108821 A 20091215; US 200913140124 A 20091215