

Title (en)
ROLL DRIVE AND ROLL STAND HAVING SUCH A ROLL DRIVE

Title (de)
WALZENANTRIEB UND WALZGERÜST MIT EINEM SOLCHEN

Title (fr)
ENTRAÎNEMENT DE CYLINDRES ET CAGE DE LAMINOIR ÉQUIPÉE D'UN TEL ENTRAÎNEMENT

Publication
EP 2385882 A1 20111116 (DE)

Application
EP 09774636 A 20091210

Priority
• EP 2009008818 W 20091210
• DE 102009031324 A 20090630

Abstract (en)
[origin: WO2011000397A1] The invention relates to a roll drive comprising a first drive train for transmitting driving power from a first drive motor to a first roll; a second drive train for transmitting driving power from the same drive motor or a second drive motor to a second roll; - both drive trains have an articulated shaft, comprising a first joint permitting a large angular deviation and a second joint permitting a large angular deviation; an end part of each articulated shaft remote from the rolls is associated with one of the drive motors or the common drive motor and is drive by said drive motor; an end part of each articulated shaft near the roll is associated with one of the rolls in order to drive said roll; the two end parts of each articulated shaft are connected by means of the two joints and a center part connected to both joints. The roll drive according to the invention is characterized by the following features: each of the two end parts near the rolls is connected to a toothed coupling having length compensation, said toothed coupling being intended for the coaxial or substantially coaxial connection to a drive pin of one of the rolls; the toothed coupling has two coupling halves that can be moved in the longitudinal direction and that are in a driving connection with each other by means of a toothed engagement; each articulated shaft and each toothed coupling is supported by means of a common radial bearing, which is positioned directly on or next to the joint between the center part and the end part of the articulated shaft near the rolls.

IPC 8 full level
B21B 35/14 (2006.01)

CPC (source: EP US)
B21B 35/141 (2013.01 - EP US); **B21B 35/148** (2013.01 - EP US); **B21B 35/142** (2013.01 - EP US)

Citation (search report)
See references of WO 2011000397A1

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 102009031324 A1 20110105; AT E554864 T1 20120515; CN 102123799 A 20110713; CN 102123799 B 20140219;
EP 2385882 A1 20111116; EP 2385882 B1 20120425; JP 2012531309 A 20121210; JP 5636425 B2 20141203; US 2011174043 A1 20110721;
US 8904841 B2 20141209; WO 2011000397 A1 20110106

DOCDB simple family (application)
DE 102009031324 A 20090630; AT 09774636 T 20091210; CN 200980132021 A 20091210; EP 09774636 A 20091210;
EP 2009008818 W 20091210; JP 2012516519 A 20091210; US 73468909 A 20091210