

Title (en)
DEVICE FOR HANDLING AND/OR TRANSPORTING ROLLS OF A ROLL STAND

Title (de)
VORRICHTUNG ZUM HANDHABEN UND/ODER TRANSPORTIEREN VON WALZEN EINES WALZGERÜSTS

Title (fr)
DISPOSITIF POUR MANIPULER ET/OU TRANSPORTER DES CYLINDRES D'UNE CAGE DE LAMINOIR

Publication
EP 2464471 A1 20120620 (DE)

Application
EP 10745163 A 20100811

Priority
• DE 102009037665 A 20090814
• EP 2010004904 W 20100811

Abstract (en)
[origin: TW201105432A] The invention relates to a device (1) for handling and/or transporting work rolls (2, 3) and/or support rolls (4, 5) of a roll stand (6), by which the work rolls (2, 3) and/or support rolls (4, 5) can be brought from the roll stand (6) into a roll workshop (10) by means of a locomotive (9) movable on a track (7, 8). In order to be able to handle and transport different rolls using just one locomotive, without complicated coupling mechanisms, according to the invention at least two tracks (7, 8) disposed at different heights (h1, h2) are provided, on which a roll (2, 3, 4, 5) can be moved by means of the locomotive (9), and a lifting table (11) is available, which is intended and suitable for raising or lowering the locomotive (9) to one of the at least two different heights (h1, h2) in order to bring it onto the respective track (7, 8).

IPC 8 full level
B21B 31/10 (2006.01)

CPC (source: EP KR US)
B21B 31/10 (2013.01 - KR); **B21B 31/103** (2013.01 - EP US); **B21B 31/10** (2013.01 - EP US); **B21B 2203/32** (2013.01 - EP US)

Citation (search report)
See references of WO 2011018215A1

Citation (third parties)
Third party :
• JP S4521721 Y1 19700828
• JP S5170162 A 19760617 - MITSUBISHI HEAVY IND LTD

Designated contracting state (EPC)
AL 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 102009037665 A1 20110217; CN 102574175 A 20120711; CN 102574175 B 20150506; EP 2464471 A1 20120620; EP 2464471 B1 20140416; JP 2013501624 A 20130117; KR 20120041248 A 20120430; RU 2012109535 A 20130920; RU 2500492 C2 20131210; TW 201105432 A 20110216; US 2012174817 A1 20120712; US 9061334 B2 20150623; WO 2011018215 A1 20110217

DOCDB simple family (application)
DE 102009037665 A 20090814; CN 201080037089 A 20100811; EP 10745163 A 20100811; EP 2010004904 W 20100811; JP 2012524143 A 20100811; KR 20127005890 A 20100811; RU 2012109535 A 20100811; TW 99126839 A 20100812; US 201013390375 A 20100811