

Title (en)

Tool changing system and method and forging roll

Title (de)

Werkzeugwechselsystem und -verfahren sowie Reckwalze

Title (fr)

Système et procédé de changement d'outils et laminoir de forge

Publication

EP 2905088 A3 20151028 (DE)

Application

EP 15000319 A 20150204

Priority

- DE 102014001738 A 20140211
- DE 102014005331 A 20140411

Abstract (en)

[origin: CN104826870A] In order to shorten the setup times in the case of a tool changeover on rolls, the invention provides a tool changeover system and a method as well as a roll thereof. Through the technical scheme, the movement sequences are separated into transverse movements and vertical movements, and for this purpose suitable devices are set and suitable operation steps are provided.

IPC 8 full level

B21B 31/10 (2006.01); **B21H 1/20** (2006.01)

CPC (source: BR EP RU US)

B21B 27/02 (2013.01 - US); **B21B 27/03** (2013.01 - EP US); **B21B 31/02** (2013.01 - US); **B21B 31/08** (2013.01 - BR); **B21B 31/10** (2013.01 - BR); **B21B 31/103** (2013.01 - BR EP US); **B21B 31/106** (2013.01 - EP US); **B21B 31/12** (2013.01 - BR EP US); **B21B 27/02** (2013.01 - BR); **B21B 31/08** (2013.01 - RU); **B21H 1/20** (2013.01 - EP US)

Citation (search report)

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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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102014005331 B3 20150521; BR 102015002901 A2 20170214; BR 102015002901 B1 20220802; CN 104826870 A 20150812; CN 104826870 B 20170630; EP 2905088 A2 20150812; EP 2905088 A3 20151028; EP 2905088 B1 20161026; EP 3028782 A1 20160608; EP 3028782 B1 20170823; ES 2607500 T3 20170331; ES 2642178 T3 20171115; MX 2015001845 A 20150923; MX 355587 B 20180424; RU 2015104127 A 20160827; RU 2634823 C2 20171103; US 10821490 B2 20201103; US 2015224552 A1 20150813; US 2017100757 A1 20170413; US 9975159 B2 20180522

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