

Title (en)

FORMING MACHINE, IN PARTICULAR RING MILLING MACHINE

Title (de)

UMFORMMASCHINE, INSBESONDERE RINGWALZMASCHINE

Title (fr)

BANC DE FORMAGE, NOTAMMENT LAMINOIR À CYLINDRES ANNULAIRES

Publication

EP 2937158 A1 20151028 (DE)

Application

EP 15162853 A 20150408

Priority

DE 102014005332 A 20140411

Abstract (en)

[origin: CN104972026A] A forming machine, particularly a ring-rolling machine, which includes a hydraulically regulated linear axle, which is driven by way of an electro-hydrostatic actuator, can work precisely while having a simple mechanical-engineering structure.

Abstract (de)

Eine Umformmaschine, insbesondere eine Ringwalzmaschine, welche eine hydraulisch geregelte Linearachse umfasst, die über einen elektro-hydrostatischen Aktuator angetrieben ist, kann bei einem einfachen maschinenbaulichen Aufbau präzise arbeiten. Die Erfindung betrifft weiterhin eine Ringwalzmaschine mit einem Direktantrieb.

IPC 8 full level

B21H 1/06 (2006.01); **F15B 15/18** (2006.01); **B21C 23/21** (2006.01); **B21J 9/14** (2006.01)

CPC (source: EP KR US)

B21B 1/16 (2013.01 - US); **B21B 31/02** (2013.01 - US); **B21B 35/00** (2013.01 - US); **B21B 35/14** (2013.01 - US);
B21H 1/06 (2013.01 - EP KR US); **B21J 9/10** (2013.01 - US); **B21J 9/12** (2013.01 - US); **B21J 9/14** (2013.01 - US); **B21C 23/211** (2013.01 - US);
B21D 22/14 (2013.01 - US)

Citation (applicant)

- DE 2504969 A1 19760819 - SCHENK HORST
- DE 3824856 A1 19900125 - KYOEI SEIKO CO [JP]
- EP 2444176 B1 20121031 - GROENE CONSULTING UNIP LDA C [PT]
- DE 3921094 A1 19910110 - THYSSEN INDUSTRIE [DE]

Citation (search report)

- [X] JP 2011038558 A 20110224 - NSD CORP
- [Y] US 3698218 A 19721017 - WIETING EUGEN
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DE102017008449A1; US11077482B2; WO2019048076A1

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)

EP 2937158 A1 20151028; **EP 2937158 B1 20210609**; CN 104972026 A 20151014; CN 104972026 B 20201106;
DE 102014005332 A1 20151015; ES 2881546 T3 20211129; JP 2015202521 A 20151116; JP 6206779 B2 20171004;
KR 101830027 B1 20180219; KR 20150118050 A 20151021; KR 20170018375 A 20170217; US 10507502 B2 20191217;
US 2015290689 A1 20151015

DOCDB simple family (application)

EP 15162853 A 20150408; CN 201510173075 A 20150413; DE 102014005332 A 20140411; ES 15162853 T 20150408;
JP 2015081223 A 20150410; KR 20150051007 A 20150410; KR 20170018540 A 20170210; US 201514683223 A 20150410