

Title (en)

APPARATUS FOR HANDLING SLABS FOR GRINDING THE SURFACES OF THE SLABS

Title (de)

VORRICHTUNG ZUM HANDHABEN VON BRAMMEN ZUM SCHLEIFEN DER BRAMMEN-OBERFLÄCHEN

Title (fr)

DISPOSITIF POUR MANIPULER DES BRAMES AUX FINS DE MEULAGE DES SURFACES DE BRAMES

Publication

EP 2467233 B1 20140716 (DE)

Application

EP 10745150 A 20100806

Priority

- DE 102009037784 A 20090818
- DE 102010025250 A 20100626
- EP 2010004819 W 20100806

Abstract (en)

[origin: CA2770040A1] The invention relates to a method and an apparatus for handling slabs (2a, 2b), produced in particular by continuous casting, the surfaces of which are ground before they are rolled in a rolling train, wherein the slab, lying on a reversible grinding table (12a, 12b), is moved back and forth under a grinding unit, arranged in a machining cell, of a grinding machine unit (I, II), the grinding table is moved linearly out of the machining cell after the grinding operation has been performed on one surface, the slab is lifted off the grinding table and fed to a turning device, wherein, after turning, the slab is removed from the turning device and, with an unworked, other surface lying uppermost, is brought onto the grinding table, which is then introduced once again into the machining cell for the working of this surface. One aim of the invention is to provide a considerably simpler method and apparatus for handling continuously cast slabs during the grinding thereof, said apparatus having at the same time a much simpler construction. This is achieved by the slab being taken up by a slab manipulator (9), which has a rotatable slab clamping and lifting means (14; 14a, 14b) and with which the clamped slab can be both transported transversely and turned.

IPC 8 full level

B24B 7/02 (2006.01); **B21B 39/20** (2006.01); **B21B 39/24** (2006.01); **B24B 7/12** (2006.01); **B24B 27/033** (2006.01)

CPC (source: EP KR US)

B21B 39/20 (2013.01 - KR); **B22D 11/04** (2013.01 - KR); **B24B 7/02** (2013.01 - EP KR US); **B24B 7/12** (2013.01 - EP KR US); **B24B 27/033** (2013.01 - EP KR US); **B21B 39/20** (2013.01 - EP US)

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 102010025250 A1 20110224; BR 112012003613 A2 20160223; CA 2770040 A1 20110224; CN 102596500 A 20120718; CN 102596500 B 20150819; CN 201913541 U 20110803; EP 2467233 A1 20120627; EP 2467233 B1 20140716; ES 2497166 T3 20140922; JP 2013502327 A 20130124; JP 5762409 B2 20150812; KR 20120044298 A 20120507; MX 2012001981 A 20120329; MY 158387 A 20160930; RU 2012110223 A 20130927; RU 2550052 C2 20150510; TW 201107078 A 20110301; TW I533971 B 20160521; UA 103942 C2 20131210; US 2012142256 A1 20120607; US 9403253 B2 20160802; WO 2011020566 A1 20110224

DOCDB simple family (application)

DE 102010025250 A 20100626; BR 112012003613 A 20100806; CA 2770040 A 20100806; CN 201020281114 U 20100802; CN 201080037344 A 20100806; EP 10745150 A 20100806; EP 2010004819 W 20100806; ES 10745150 T 20100806; JP 2012525067 A 20100806; KR 20117029144 A 20100806; MX 2012001981 A 20100806; MY PI2011006304 A 20100806; RU 2012110223 A 20100806; TW 99122109 A 20100706; UA A201203016 A 20100806; US 201013322471 A 20100806