

Title (en)

METHOD AND APPARATUS FOR PRODUCING STEEL INTERMEDIATE PRODUCTS

Title (de)

VERFAHREN UND VORRICHTUNG VON STAHLZWISCHENPRODUKTEN

Title (fr)

PROCÉDÉ ET APPAREIL DE PRODUCTION DE PRODUITS INTERMÉDIAIRES D'ACIER

Publication

**EP 3006123 A1 20160413 (EN)**

Application

**EP 15189247 A 20151009**

Priority

- GB 201417999 A 20141010
- GB 201517278 A 20150930

Abstract (en)

A method and an apparatus 100 for continuously producing steel intermediate products are disclosed. Liquid steel is cast into plural moulds 116 to continuously produce plural bloom strands 118 using continuous casting apparatus. Subsequently, one or more of the bloom strands 118 is fed in-line to respective rolling mills 150 configured to hot roll the input continuously cast bloom strands 118 to produce rolled billets.

IPC 8 full level

**B21B 1/46** (2006.01); **B21B 13/22** (2006.01)

CPC (source: EP GB US)

**B21B 1/463** (2013.01 - EP GB US); **B21B 13/12** (2013.01 - US); **B21B 13/22** (2013.01 - EP GB US); **B21B 37/46** (2013.01 - GB);  
**B22D 11/001** (2013.01 - US); **B22D 11/1206** (2013.01 - US); **B22D 11/1226** (2013.01 - US); **B22D 11/142** (2013.01 - US);  
B21B 1/04 (2013.01 - EP US); **B21B 1/18** (2013.01 - EP US); **B21B 13/005** (2013.01 - EP US); **B21B 31/07** (2013.01 - EP US);  
B21B 35/04 (2013.01 - EP US); **B21B 2001/022** (2013.01 - EP US); **B21B 2013/006** (2013.01 - EP US); **B21B 2203/06** (2013.01 - EP US);  
**B21B 2261/10** (2013.01 - EP US)

Citation (search report)

- [Y] US 2002189075 A1 20021219 - SCLIPPA FERRUCCIO [IT]
- [Y] DE 102009050710 A1 20110428 - SMS MEER GMBH [DE]
- [Y] GB 2089259 A 19820623 - THAELMANN SCHWERMASCHBAU VEB
- [Y] SCHOELLNHAMMER H ET AL: "DAS NEUE LD-KOMPAKTSTAHLWERK BEI VOESTALPINE STAHL//THE NEW LD COMPACT STEELMAKING PLANT AT VOESTALPINE STAHL", STAHL UND EISEN, VERLAG STAHLLEISEN, DUSSELDORF, DE, vol. 122, no. 3, 1 March 2002 (2002-03-01), pages 37 - 43, XP001122636, ISSN: 0340-4803

Cited by

CN110039019A

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 3006123 A1 20160413; EP 3006123 B1 20170802;** CN 105499271 A 20160420; CN 105499271 B 20180420; ES 2637824 T3 20171017;  
GB 201417999 D0 20141126; GB 201517278 D0 20151111; GB 2531073 A 20160413; GB 2531164 A 20160413; GB 2531164 B 20161012;  
HK 1220164 A1 20170428; PL 3006123 T3 20180131; PT 3006123 T 20170828; US 2016101464 A1 20160414; WO 2016055813 A1 20160414

DOCDB simple family (application)

**EP 15189247 A 20151009;** CN 201510655041 A 20151012; ES 15189247 T 20151009; GB 201417999 A 20141010;  
GB 2015052975 W 20151009; GB 201517278 A 20150930; HK 16108167 A 20160712; PL 15189247 T 20151009; PT 15189247 T 20151009;  
US 201514879443 A 20151009