

Title (en)
HOT-BLAST STOVE CONSTRUCTION METHOD

Title (de)
KONSTRUKTIONSVERFAHREN FÜR WINDERHITZER

Title (fr)
PROCÉDÉ DE CONSTRUCTION D'UN FOYER À AIR CHAUD

Publication
EP 3031933 A4 20170419 (EN)

Application
EP 14835034 A 20140612

Priority
• JP 2013163520 A 20130806
• JP 2014065563 W 20140612

Abstract (en)
[origin: EP3031933A1] In a method of constructing a hot-blast stove, the hot-blast stove includes a furnace body including a furnace shell (4) and a lining (5) formed inside the furnace shell (4), in which the lining (5) includes a castable refractory (51) installed inside the furnace shell (4), heat-insulating bricks (52) installed inside the castable refractory (51), and fire bricks (53) installed inside the heat-insulating brick (52). The method of constructing the hot-blast stove includes: installing the heat-insulating bricks (52) and the fire bricks (53) inside the furnace shell (4) at an interval from the furnace shell (4); injecting the castable refractory (51) between the furnace shell (4) and the heat-insulating bricks (52); and solidifying the castable refractory (51).

IPC 8 full level
C21B 9/06 (2006.01); **F27D 1/16** (2006.01)

CPC (source: EP RU)
C21B 9/06 (2013.01 - EP); **F27D 1/1626** (2013.01 - EP); **C21B 9/06** (2013.01 - RU)

Citation (search report)
• [Y] US 3528647 A 19700915 - HYDE JACK
• [Y] EP 1975258 A1 20081001 - NIPPON STEEL ENG CO LTD [JP]
• [Y] US 5358223 A 19941025 - BLEIJENDAAL NICOLAAS G J [NL], et al
• See references of WO 2015019704A1

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CN111649588A

Designated contracting state (EPC)
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DOCDB simple family (publication)
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BR 112016002453 B1 20201201; CN 105452491 A 20160330; JP 2015030907 A 20150216; JP 5469774 B1 20140416;
KR 101804829 B1 20171205; KR 20160040594 A 20160414; RU 2615383 C1 20170404; TW 201518666 A 20150516; TW I608210 B 20171211;
WO 2015019704 A1 20150212

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