

Title (en)
BLAST FURNACE REPAIR METHOD

Title (de)
HOCHOFEN-REPARATURVERFAHREN

Title (fr)
PROCÉDÉ DE RÉPARATION DE HAUT FOURNEAU

Publication
EP 3029159 A4 20170405 (EN)

Application
EP 14832291 A 20140729

Priority
• JP 2013158324 A 20130730
• JP 2013272269 A 20131227
• JP 2014069944 W 20140729

Abstract (en)
[origin: EP3029159A1] A method for revamping a blast furnace that has a furnace body and a furnace body tower installed on a site foundation includes: while an old blast furnace is in operation (S1), a new furnace construction step (S2) of constructing a new furnace tower structure and a new furnace proper on the new foundation at a site different from the site foundation; and a foundation segmentation step (S3) of vertically cutting the site foundation to segment the site foundation into a foundation top on which the old furnace proper and the old furnace tower structure are mounted and a foundation bottom; blowing out the blast furnace (S4); an old furnace pull-out step (S5) of carrying out the foundation top integrally with the old furnace proper and the old furnace tower structure; and a new furnace pull-in step (S6) of introducing the new foundation on the foundation bottom integrally with the new furnace tower structure and the new furnace proper.

IPC 8 full level
C21B 7/00 (2006.01)

CPC (source: EP RU)
C21B 7/00 (2013.01 - EP RU)

Citation (search report)
• [AD] JP S5213406 A 19770201 - KAWASAKI STEEL CO
• [A] EP 2172569 A1 20100407 - NIPPON STEEL ENG CO LTD [JP], et al
• [A] JP 2009120945 A 20090604 - NIPPON STEEL ENG CO LTD, et al
• See references of WO 2015016220A1

Designated contracting state (EPC)
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EP 3029159 A1 20160608; EP 3029159 A4 20170405; EP 3029159 B1 20180509; BR 112016000677 B1 20200331;
CN 105408499 A 20160316; CN 105408499 B 20170815; JP 2015045081 A 20150312; JP 5577450 B1 20140820; KR 101665990 B1 20161013;
KR 20160022941 A 20160302; RU 2618978 C1 20170511; WO 2015016220 A1 20150205

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