

Title (en)  
HOT BLAST FURNACE FACILITY

Title (de)  
HEISSWIND-OFENANLAGE

Title (fr)  
INSTALLATION DE HAUT FOURNEAU À SOUFFLAGE D'AIR CHAUD

Publication  
**EP 3059328 A4 20170628 (EN)**

Application  
**EP 14854043 A 20141009**

Priority  
• JP 2013215443 A 20131016  
• JP 2014077100 W 20141009

Abstract (en)  
[origin: EP3059328A1] There is provided a hot stove facility including: a hot stove; a combustion air pipe through which combustion air is fed to the hot stove; a fuel gas pipe through which blast furnace gas emitted from a blast furnace is fed to the hot stove, as fuel gas for the hot stove; a smoke pipe through which exhaust gas emitted from the hot stove is fed to a chimney; first preheating means that is coupled to the smoke pipe to preheat one of the combustion air and the fuel gas by using heat recovered from the exhaust gas from the hot stove by heat exchange; and second preheating means that is provided with a first heater for burning a part of the blast furnace gas to preheat the other of the combustion air and the fuel gas by using heat generated by the first heater.

IPC 8 full level  
**C21B 9/14** (2006.01); **C21B 9/10** (2006.01)

CPC (source: EP KR)  
**C21B 9/14** (2013.01 - EP KR); **F27B 1/16** (2013.01 - KR); **F27B 1/22** (2013.01 - KR)

Citation (search report)  
• [XYI] CN 202390462 U 20120822 - SHANGHAI LALLEEN ENG TECHNOLOGY CO LTD  
• [XYI] CN 101363067 A 20090211 - CHANGSHENG YUAN [CN]  
• [Y] US 4452586 A 19840605 - VOGES BERND [DE]  
• [Y] JP 2002266012 A 20020918 - NIPPON STEEL CORP, et al  
• [A] CN 101928797 A 20101229 - JIANGSU ZHONGTIAN ENERGY EQUIPMENT CO LTD  
• See references of WO 2015056630A1

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

DOCDB simple family (publication)  
**EP 3059328 A1 20160824; EP 3059328 A4 20170628**; CN 105637103 A 20160601; JP 2015078407 A 20150423; JP 5468172 B1 20140409; KR 20160073977 A 20160627; RU 2016115812 A 20171121; RU 2016115812 A3 20180503; WO 2015056630 A1 20150423

DOCDB simple family (application)  
**EP 14854043 A 20141009**; CN 201480056222 A 20141009; JP 2013215443 A 20131016; JP 2014077100 W 20141009; KR 20167011838 A 20141009; RU 2016115812 A 20141009