

Title (en)
FLUIDIZED BED FURNACE

Title (de)
WIRBELSCHICHTOFEN

Title (fr)
FOUR À LIT FLUIDISÉ

Publication
EP 3889532 A4 20211222 (EN)

Application
EP 19889794 A 20191122

Priority
• KR 20180147506 A 20181126
• KR 2019016101 W 20191122

Abstract (en)
[origin: EP3889532A1] A fluidized bed furnace includes: a lower reactor which forms a first fluidized bed space having a first diameter, and which includes a discharge port through which reduced iron fines are discharged; an upper reactor which forms a second fluidized bed space having a second diameter greater than the first diameter, and which includes a charging port through which iron ore fines are charged; and a tapered part which forms a connecting space that allows communication between the first fluidized bed space and the second fluidized bed space, and which directly connects the lower reactor and the upper reactor.

IPC 8 full level
F27B 15/00 (2006.01); **C21B 13/00** (2006.01); **F27B 15/02** (2006.01); **F27B 15/08** (2006.01); **F27B 15/09** (2006.01); **F27B 15/10** (2006.01)

CPC (source: EP KR)
C21B 13/0033 (2013.01 - EP KR); **C21B 13/02** (2013.01 - EP); **F27B 15/003** (2013.01 - KR); **F27B 15/02** (2013.01 - EP);
F27B 15/08 (2013.01 - EP KR); **F27B 15/09** (2013.01 - EP KR); **F27B 15/10** (2013.01 - EP KR)

Citation (search report)
• [XYI] US 6030432 A 20000229 - KEPPLINGER WERNER LEOPOLD [AT], et al
• [XYI] US 4886246 A 19891212 - MAEDA TAKUYA [JP], et al
• [Y] US 2009008841 A1 20090108 - CHO MIN-YOUNG [KR], et al

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 3889532 A1 20211006; EP 3889532 A4 20211222; EP 3889532 B1 20230510; CN 113167534 A 20210723; CN 113167534 B 20230901;
KR 102090550 B1 20200318; WO 2020111666 A1 20200604

DOCDB simple family (application)
EP 19889794 A 20191122; CN 201980077736 A 20191122; KR 20180147506 A 20181126; KR 2019016101 W 20191122