

Title (en)
FLUIDIZED BED FURNACE AND WASTE PROCESSING METHOD

Title (de)
FLÜSSIGBETTOFEN UND ABFALLVERARBEITUNGSVERFAHREN

Title (fr)
FOUR À LIT FLUIDISÉ ET PROCÉDÉ DE TRAITEMENT DES DÉCHETS

Publication
EP 2587146 A4 20151007 (EN)

Application
EP 11797836 A 20110621

Priority

- JP 2010141830 A 20100622
- JP 2011003527 W 20110621

Abstract (en)
[origin: EP2587146A1] Disclosed is a waste treatment technique characterized in that it comprises: blowing a fluidizing gas from around a non-combustible substance discharge port (29) toward fluidizable particles to form a first fluidization region (15), while blowing a fluidizing gas between the first fluidization region (15) and a front wall (24) at a flow velocity less than that in the first fluidization region (15) to form a second fluid region (16) having a relatively low degree of fluidization of fluidizable particles (12); returning fluidizable particles (12) discharged from the non-combustible substance discharge port (29) to a fluidized bed (14) from the side of the front wall (24) to form, in the fluidized bed (14), a flow of fluidizable particles (12) directed from the front wall (24) to the non-combustible substance discharge port (29); supplying waste (18) from the front wall (24) onto the fluidized bed (14) to cause the waste (18) to be accumulated on the second fluidization region (16) while causing the accumulated waste (18) to be moved into the first fluidization region (15) step-by-step and gasified.

IPC 8 full level
F23G 5/027 (2006.01); **F23C 10/02** (2006.01); **F23C 10/20** (2006.01); **F23C 10/22** (2006.01); **F23C 10/26** (2006.01); **F23G 5/30** (2006.01)

CPC (source: EP US)
F23C 10/20 (2013.01 - EP US); **F23C 10/22** (2013.01 - EP US); **F23C 10/26** (2013.01 - EP US); **F23G 5/027** (2013.01 - EP US); **F23G 5/30** (2013.01 - EP US); **F23G 2205/101** (2013.01 - EP US)

Citation (search report)

- [Y] JP H109511 A 19980116 - EBARA CORP
- [Y] JP S61205720 A 19860911 - KOBE STEEL LTD
- [Y] JP S58108317 A 19830628 - FUJI ELECTRIC CO LTD
- [A] JP H0755123 A 19950303 - TAKUMA KK
- [A] US 4777889 A 19881018 - SMITH RICHARD D [US]
- See references of WO 2011161947A1

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 2587146 A1 20130501; EP 2587146 A4 20151007; EP 2587146 B1 20171129; CN 102947646 A 20130227; JP 2012007763 A 20120112; JP 5694690 B2 20150401; PL 2587146 T3 20180430; US 2013092064 A1 20130418; WO 2011161947 A1 20111229

DOCDB simple family (application)
EP 11797836 A 20110621; CN 201180031121 A 20110621; JP 2010141830 A 20100622; JP 2011003527 W 20110621; PL 11797836 T 20110621; US 201113805858 A 20110621