Title (en)

WASTE MATERIAL MELTING FURNACE

Title (de)

SCHMELZOFEN FÜR ABFALLMATERIAL

Title (fr)

FOUR DE FUSION DE DÉCHETS

Publication

EP 2940386 A4 20160824 (EN)

Application

EP 13830075 A 20130726

Priority

- JP 2012281343 A 20121225
- JP 2013070334 W 20130726

Abstract (en)

[origin: EP2940386A1] A waste melting furnace (2) for drying, thermally decomposing, and melting waste comprises a cylindrical main part (20) extending vertically so as to form a space for containing the waste and guide the waste from upside to downside; a melt reservoir part (22), joined to a lower side of the main part along a center axis of the main part (20), for retaining melt generated from the waste; and a gas induction part (21), joined to an upper side of the main part (20) along the center axis of the main part (20), for collecting a gas generated from the waste and guiding the collected gas to an exhaust port (26). The main part (20) has a taper part (24) having an inner cross-sectional area gradually decreasing to the downside. The taper part (24) vertically occupies the largest height in all of parts constituting the main part (20).

IPC 8 full level

F23G 5/24 (2006.01); **F23G 5/00** (2006.01); **F23G 5/027** (2006.01); **F27B 1/00** (2006.01); **F27B 1/10** (2006.01); **F27B 1/16** (2006.01); **F27B 17/00** (2006.01)

CPC (source: EP)

F23G 5/0276 (2013.01); **F23G 5/24** (2013.01); **F27B 1/00** (2013.01); **F27B 1/10** (2013.01); **F27B 1/16** (2013.01); F23G 2201/10 (2013.01); F23G 2201/303 (2013.01); F23G 2202/20 (2013.01)

Citation (search report)

- [X] JP 2011012901 A 20110120 - NIPPON STEEL ENG CO LTD, et al
- [X] US 4346661 A 19820831 - NAKAMURA TAKEO
- [X] JP H07119940 A 19950512 - NIPPON KOKAN KK
- See references of WO 2014103417A1

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 2940386 A1 20151104; **EP 2940386 A4 20160824**; **EP 2940386 B1 20190904**; BR 112014006698 A2 20170411; BR 112014006698 B1 20211207; BR 112014006698 B8 20221108; CN 104053949 A 20140917; CN 104053949 B 20170524; ES 2748138 T3 20200313; JP 2014126227 A 20140707; JP 5283780 B1 20130904; KR 101921225 B1 20181122; KR 20150099684 A 20150901; PL 2940386 T3 20200228; WO 2014103417 A1 20140703

DOCDB simple family (application)

EP 13830075 A 20130726; BR 112014006698 A 20130726; CN 201380003838 A 20130726; ES 13830075 T 20130726; JP 2012281343 A 20121225; JP 2013070334 W 20130726; KR 20147028431 A 20130726; PL 13830075 T 20130726