

Title (en)

METHOD FOR PROCESSING ASH FROM WASTE INCINERATION PLANTS BY MEANS OF WET CLASSIFICATION

Title (de)

VERFAHREN ZUR AUFBEREITUNG VON ASCHE AUS MÜLLVERBRENNUNGSANLAGEN DURCH NASSKLASSIERUNG

Title (fr)

PROCÉDÉ DE TRAITEMENT DE CENDRES PROVENANT D'INSTALLATIONS D'INCINÉRATION D'ORDURES PAR CLASSIFICATION HYDRAULIQUE

Publication

**EP 3087317 A1 20161102 (DE)**

Application

**EP 14825112 A 20141209**

Priority

- DE 102013021790 A 20131223
- DE 102014100725 A 20140123
- EP 2014077004 W 20141209

Abstract (en)

[origin: WO2015096977A1] The invention relates to a method for processing ash from waste incineration plants by means of wet classification, wherein ash (1) is mixed with liquid (3) in a mashing tank (2) and, after a coarse fraction (4) has been screen out, is fed to a classifying stage (5) as a feed flow, which classifying stage comprises an upward-current classifier (6) and an upstream hydrocyclone installation (7). In the classifying stage (5), the feed flow is separated into a good fraction (8) free of harmful substances and a remaining fraction (9) containing harmful substances, wherein the remaining fraction (9) is drawn off as a suspension at the top side of a fluidized bed produced in the upward-current classifier and wherein the good fraction (8) drawn off at the bottom side of the fluidized bed is dewatered by means of a screening device (10). The pass-through fraction (13) of the screening device (10) is fed back into the hydrocyclone installation (7). In the hydrocyclone installation (7), at least one material flow containing essentially only particles that are smaller than the separation particle size of the screening process is removed as a cyclone overflow (15, 15'). In a second classifying stage (17), the cyclone overflow (15, 15') of the hydrocyclone installation (7) is separated into a fine-particle mineral fraction (18) and a remainder (19) containing harmful substances, wherein the remainder has a upper particle-size limit between 20 µm and 50 µm.

IPC 8 full level

**F23J 1/00** (2006.01)

CPC (source: EP US)

**B03B 9/04** (2013.01 - EP US); **F23J 1/00** (2013.01 - EP US); **F23J 2900/01001** (2013.01 - EP US); **F23J 2900/01005** (2013.01 - EP US)

Citation (search report)

See references of WO 2015096977A1

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)

**DE 102014100725 B3 20141231**; CN 105980775 A 20160928; CN 105980775 B 20180720; EP 3087317 A1 20161102; EP 3087317 B1 20181212; EP 3087318 A1 20161102; EP 3087318 B1 20181212; PL 3087317 T3 20190531; PL 3087318 T3 20190531; US 10213790 B2 20190226; US 2016310960 A1 20161027; WO 2015096977 A1 20150702; WO 2015097256 A1 20150702

DOCDB simple family (application)

**DE 102014100725 A 20140123**; CN 201480073979 A 20141209; EP 14825112 A 20141209; EP 14827784 A 20141223; EP 2014077004 W 20141209; EP 2014079260 W 20141223; PL 14825112 T 20141209; PL 14827784 T 20141223; US 201415105488 A 20141209