

Title (en)

METHOD OF AND CHARGE FOR CLEANING INCINERATOR HEAT EXCHANGERS

Title (de)

VERFAHREN UND LADUNG ZUR REINIGUNG VON WÄRMETAUSCHERN VON VERBRENNUNGSANLAGEN

Title (fr)

PROCÉDÉ ET CHARGE DE NETTOYAGE D'ÉCHANGEURS DE CHALEUR D'INCINÉRATEURS

Publication

EP 3885686 A1 20210929 (EN)

Application

EP 20166099 A 20200326

Priority

EP 20166099 A 20200326

Abstract (en)

Method of cleaning a furnace heat exchanger and/or a flue gas heat exchanger in a boiler of an incinerator, the heat exchanger comprising bundles of tubes or a membrane wall formed by or containing tubes, the method comprising the steps of attaching a pyrotechnical charge to the end of a lance, inserting the charge into the incinerator, positioning the pyrotechnical charge in an ally between bundles or between the tubes in a bundle, and initiating deflagration thus removing deposits, such as slag, from the tubes.

IPC 8 full level

F27D 25/00 (2010.01); **B08B 7/00** (2006.01); **F28G 7/00** (2006.01)

CPC (source: EP)

B08B 7/0007 (2013.01); **F27D 25/006** (2013.01); **F28G 7/005** (2013.01)

Citation (applicant)

- EP 2383534 A1 20111102 - ONLINE CLEANING B V [NL]
- WO 2011096872 A1 20110811 - BENGTSSON JAN-AAKE [SE]
- DE 202017001549 U1 20180628 - KRUSE VOLKER [DE]
- EP 1275925 A1 20030115 - HANS EICHNER GMBH & CO KG [DE]
- EP 1067349 A2 20010110 - ZILKA FRANCIS [US], et al
- US 5494004 A 19960227 - HUNTER JR LOUIS G [US]
- "Handbuch Sprengtechnik", 1975, VEB DEUTSCHER VERLAG FÜR GRUNDSTOFFINDUSTRIE, pages: 344 - 351

Citation (search report)

- [XDAI] DE 202017001549 U1 20180628 - KRUSE VOLKER [DE]
- [XAI] US 2006124019 A1 20060615 - COUGHLIN JOHN F [US], 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 3885686 A1 20210929; EP 4127588 A1 20230208; WO 2021191373 A1 20210930

DOCDB simple family (application)

EP 20166099 A 20200326; EP 2021057789 W 20210325; EP 21713693 A 20210325