

Title (en)

METHOD FOR COMBUSTING SOLID FUEL AND A HEATING DEVICE

Title (de)

VERFAHREN ZUR VERBRENNUNG VON FESTBRENNSTOFF UND HEIZVORRICHTUNG

Title (fr)

PROCÉDÉ DE COMBUSTION DE COMBUSTIBLE SOLIDE ET DISPOSITIF DE CHAUFFAGE

Publication

EP 2087282 A4 20140430 (EN)

Application

EP 07823119 A 20071024

Priority

- FI 2007000259 W 20071024
- FI 20060935 A 20061024

Abstract (en)

[origin: WO2008049962A1] The invention comprises a method for combusting solid fuel and a heating device (20), wherein the method can be applied. In the method - a fuel bed of solid fuel is formed in the first pipe (3), which is at an angle in relation to the horizontal plane and equipped with openings (5), - the fuel bed is combusted in the first pipe (3), - air needed for the combustion comes into the first pipe (3) from the openings (5) and - flue gases are led out from the first pipe (3) via its top part (21). In the method the fuel bed is ignited only at its surface and the fuel bed is combusted only at its surface, so that a combustion zone of a certain height is formed on the surface of the fuel bed. In the heating device (20) according to the invention the combustion advances as a zone in a controlled manner downwards in the fuel bed.

IPC 8 full level

F23B 60/00 (2006.01); **F23B 50/12** (2006.01); **F23B 80/04** (2006.01); **F23L 15/04** (2006.01)

CPC (source: EP)

F23B 1/36 (2013.01); **F23B 50/12** (2013.01); **F23B 60/00** (2013.01); **F23B 80/04** (2013.01); **F23L 15/04** (2013.01); **F23L 2900/15043** (2013.01); **Y02E 20/34** (2013.01)

Citation (search report)

- [XYI] US 4712491 A 19871215 - SCHMIDT LOTHAR [DE]
- [XY] US 3995567 A 19761207 - DRAKE DALE E, et al
- [Y] WO 2006103613 A2 20061005 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] US 2666403 A 19540119 - POLK WALTER C
- See references of WO 2008049962A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008049962 A1 20080502; EP 2087282 A1 20090812; EP 2087282 A4 20140430; FI 20060935 A0 20061024

DOCDB simple family (application)

FI 2007000259 W 20071024; EP 07823119 A 20071024; FI 20060935 A 20061024