

Title (en)

Heating Apparatus for Solid Bulk Fuel

Title (de)

Vorrichtung zur Beheizung eines wärmetechnischen Gerätes mit festem, schüttfähigem Brennmateri

Title (fr)

Appareil de chauffage pour combustible solide en vrac

Publication

**EP 1452801 A1 20040901 (DE)**

Application

**EP 04002105 A 20040131**

Priority

DE 10308695 A 20030228

Abstract (en)

Device for heating a heating device, especially a heating furnace, with solid, flowable combustion material, especially wood pellets, comprises a burner (7) containing a combustion chamber arranged above a cinder dump and having an upward-facing flame outlet opening (20) and emptied into the cinder dump via a base-side waste disposal door (21) having a moving closing element (22) provided with primary air openings (34). The closing element is a double-walled hollow plate having an upper wall designed as a slatted plate (36) containing the primary air openings and a lower wall designed as an opening-free closing plate (37) closing the cinder dump off from the combustion chamber. The hollow chamber between the slatted plate and the closing plate is designed as an air channel (44) communicating with an air-loaded pressure chamber and separated by a separating wall (16) from the combustion chamber. The primary air openings lead from the air channel, which communicates with a flow channel (45) leading to a secondary air opening (35).

Abstract (de)

Bei einer Vorrichtung zur Beheizung eines wärmetechnischen Gerätes mit Holzpellets oder dgl., bei der ein Brenner (7) vorgesehen ist, der eine oberhalb eines Ascheraums (2) angeordnete, mit dem Brennmateri

IPC 1-7

**F23B 1/16; F23L 1/02**

IPC 8 full level

**F23B 30/02** (2006.01); **F23H 11/26** (2006.01); **F23J 1/06** (2006.01); **F23L 1/02** (2006.01); **F23L 9/06** (2006.01)

CPC (source: EP)

**F23B 1/16** (2013.01); **F23H 11/26** (2013.01); **F23J 1/06** (2013.01); **F23L 1/02** (2013.01); **F23L 9/06** (2013.01)

Citation (search report)

- [A] EP 0945676 A2 19990929 - WINDHAGER ZENTRALHEIZUNG AG [AT]
- [A] US 5359945 A 19941101 - BUCKNER CARROL E [US], et al
- [A] DE 3345963 A1 19850620 - PROEMMEL JOACHIM
- [A] WO 0184048 A1 20011108 - SWEDISH BIOBURNER SYST AB [SE], et al

Cited by

DE102009014010A1; CN104534489A; DE102009014010B4

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1452801 A1 20040901; EP 1452801 B1 20101013**; AT E484712 T1 20101015; DE 10308695 A1 20040909; DE 502004011764 D1 20101125

DOCDB simple family (application)

**EP 04002105 A 20040131**; AT 04002105 T 20040131; DE 10308695 A 20030228; DE 502004011764 T 20040131