

Title (en)

Load-dependent operated apparatus for the combustion of solid biogenic fuels and methods for their operating

Title (de)

Lastabhängig betriebene Vorrichtung zur Verbrennung fester biogener Brennstoffe und Verfahren zu deren Betrieb

Title (fr)

Dispositif fonctionnant en fonction de la charge pour la combustion de combustibles biogènes solides et son procédé de fonctionnement

Publication

EP 2674673 A3 20140813 (DE)

Application

EP 13171352 A 20130611

Priority

DE 102012105099 A 20120613

Abstract (en)

[origin: EP2674673A2] The device (1) has a feed device (4) for feeding fuel into a combustible material bed (7) in a combustion stage (2) i.e. basic heat load compensating firing stage. An ignition unit ignites the fuel in the bed. A combustion chamber (11) is provided above the bed. A heat exchanger (13) is provided with a downstream heat accumulator. The combustion chamber and the heat exchanger are arranged in a heat flow of burnt combustible material. A self-igniting fuel feeding device (10) is provided in the combustion chamber in a heat demand peaks covering firing stage (3). The fuel of the heat demand peaks covering firing stage is a liquid or gaseous fuel or crushed solid biogenic fuel. The ignition unit is designed as an electrical ignition coil. An independent claim is also included for a method for operating a load-dependently operated device.

IPC 8 full level

F23C 1/04 (2006.01); **F23C 1/02** (2006.01); **F23C 6/04** (2006.01); **F23G 5/16** (2006.01)

CPC (source: EP)

F23C 1/02 (2013.01); **F23C 1/04** (2013.01); **F23C 6/047** (2013.01); **F23G 5/16** (2013.01); **F23C 2201/301** (2013.01); **F23G 2204/103** (2013.01); **F23G 2209/26** (2013.01)

Citation (search report)

- [I] EP 1221573 A1 20020710 - STOEGER JOSEF JUN [AT]
- [I] GB 1023583 A 19660323 - FUEL FIRING LTD
- [I] US 3680500 A 19720801 - PRYOR ROBERT C

Cited by

CN109059017A

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 2674673 A2 20131218; **EP 2674673 A3 20140813**; **EP 2674673 B1 20180228**; DE 102012105099 A1 20131219;
DE 102012105099 B4 20140206

DOCDB simple family (application)

EP 13171352 A 20130611; DE 102012105099 A 20120613