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(11)

EP 2 295 856 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
12.11.2014 Bulletin 2014/46

(51) Int Cl.:
F23B 40/06 (2006.01) **F23J 1/00** (2006.01)

(43) Date of publication A2:
16.03.2011 Bulletin 2011/11

(21) Application number: 10397513.2

(22) Date of filing: 19.08.2010

(84) Designated Contracting States:
**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 SE SI SK SM TR**
Designated Extension States:
BA ME RS

(30) Priority: 20.08.2009 FI 20095856

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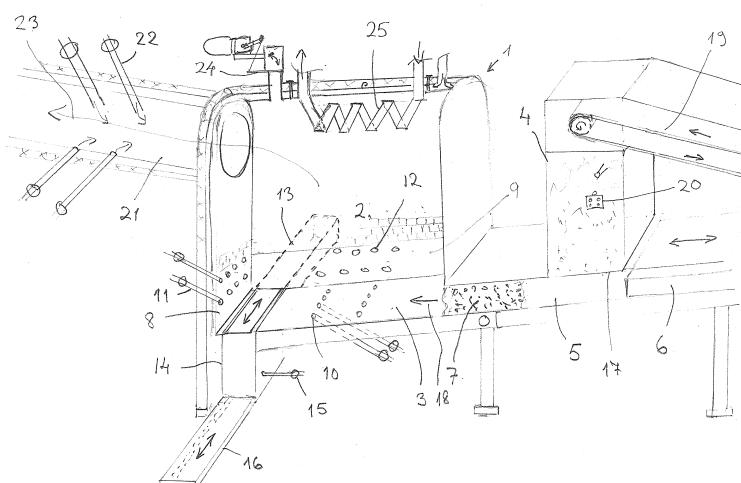
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(54) Combustion facility for solid biofuels

(57) The invention relates to a combustion facility for solid biofuels, comprising a vessel (1) having a combustion chamber (2) and a flat-surfaced stationary metal grate (3), as well as a fuel silo (4) mounted adjacent to the vessel (1) to receive biofuels, and feeding means (5,6) for feeding fuel. The Invention is **characterized in that** the feeding means (5,6) comprise a water-cooled feeding shaft (5) extending from underneath the fuel silo (4) to the combustion chamber (2) in the direction of the metal grate (3) and a reciprocating feeding piston (6) mounted in this feeding shaft (5) for pushing the fuel fallen down from the fuel silo (4) to the feeding shaft (5) as a continuous gas tight plug (7) onto the metal grate (3) of

the vessel (1), that in the grate (3) as well as in the front (8) and side walls (9) of the combustion chamber (2) air nozzles (10, 11, 12) are arranged, directed to the combustion zone of the fuel, and that at the final end of the fuel lying on the grate (3) an ash removal compartment (14) covered with an upper damper (13) is arranged, said ash removal compartment being provided with additional air nozzles (15) to complete the combustion of the unburned ingredients, the bottom of which being formed by a water-cooled lower damper (16) for cooling the ash charge before being dropped down to a wagon or a container provided underneath.



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EUROPEAN SEARCH REPORT

Application Number
EP 10 39 7513

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| DOCUMENTS CONSIDERED TO BE RELEVANT | | | CLASSIFICATION OF THE APPLICATION (IPC) |
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| 1 | The present search report has been drawn up for all claims | | |
| 1 | Place of search Munich | Date of completion of the search 2 October 2014 | Examiner Hauck, Gunther |
| CATEGORY OF CITED DOCUMENTS | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |
| X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | | |

EPO FORM 1503/03-82 (P04C01)

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EP 10 39 7513

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02-10-2014

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