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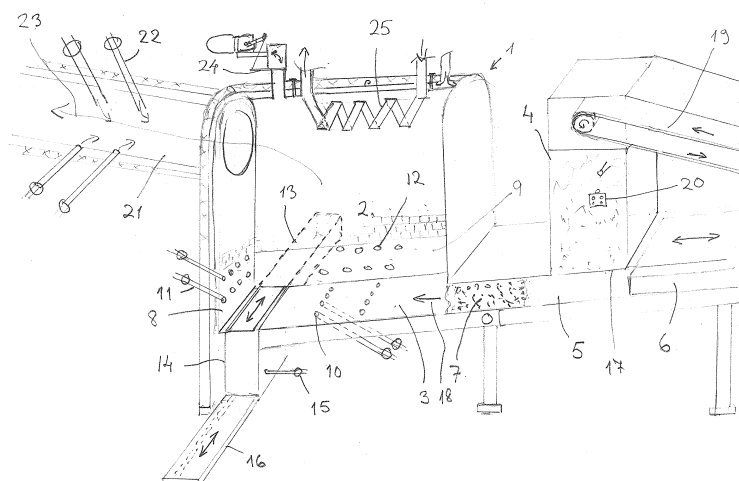
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(54) **Combustion facility for solid biofuels**

(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.





EUROPEAN SEARCH REPORT

 Application Number
 EP 10 39 7513

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 2 October 2014	Examiner Hauck, Gunther
CATEGORY OF CITED DOCUMENTS 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		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	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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