

Title (en)

Boiler and method of feeding of fuels, particularly straw bales in the boiler

Title (de)

Kessel und Verfahren zum Zuführen von Brennstoffen, insbesondere Strohballen, in den Kessel

Title (fr)

Chaudière et procédé d'alimentation de combustibles, particulièrement de balles de paille, dans la chaudière

Publication

EP 2767759 A1 20140820 (EN)

Application

EP 14466003 A 20140124

Priority

CZ 2013116 A 20130215

Abstract (en)

A biomass combustion boiler, particularly firing full biomass bales (3), contains a pre-heating chamber (1) and a combustion chamber (2). A closing plate (4) is located outside the pre-heating chamber (1), in its basic position, and is insertable into the pre-heating chamber (1). In its inserted position it divides the pre-chamber (1) into a lower space (18) freely connected with the combustion chamber (2) and an upper space (19) for newly supplied fuel. Fuel, particularly full straw bales (3), is supplied to the boiler by first inserting closing plate (4) into the pre-heating chamber (1), by then opening of a drop gate (6) of the pre-heating chamber (1) and inserting the fuel into the pre-heating chamber (1). The drop gate (6) of the pre-heating chamber (1) then closes and finally, the closing plate (4) is removed from the pre-heating chamber (1). A pusher pressure piston (5) conveys parts of the fuel from the bottom of pre-heating chamber (1) into the combustion chamber (2).

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

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Citation (search report)

- [XYI] SK 500302011 A3 20130204 - TTS ENERGO S R O [CZ]
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- [YDA] CZ 302597 B6 20110727 - STEP TRUTNOV A S [CZ]

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CN106051742A; CN109458608A

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