Title (en)

OVERFEED BURNER FOR SOLID FUEL AND METHOD OF ITS OPERATION

Title (de)

VON OBEN GESPEISTER BRENNER FÜR FESTEN BRENNSTOFF UND VERFAHREN ZU DESSEN BETRIEB

Title (fr)

BRULEUR A ALIMENTATION PAR LE HAUT DESTINE A UN COMBUSTIBLE SOLIDE ET SON MODE DE FONCTIONNEMENT

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9900626A1] Overfeed burner with controllable output for solid fuels, such as chips or coal, comprising a combustion chamber (2), downwardly delimited by a grate (3), a burner pipe (14) for unburned gases connected to the combustion chamber, and means for supplying primary and secondary air. Distinguishing features are that the grate (3) is horizontally rotatable and vertically movable for changing the volume of the combustion chamber (2), that a restrictable secondary air inlet (16) and a damper (13), which is equipped with a controllable secondary air inlet (15), are arranged in the passage (12) between the combustion chamber and the burner pipe, and a controllable fan (21) for feeding combustion air. A method of operation includes lowering the output by lowering the speed of the fan (21), then throttling the passage (12) between the combustion chamber and the burner pipe, reducing the supply of secondary air, reducing the rotation speed of the grate (3) and closing a damper (23) for over-fire air.

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