

Title (en)  
FURNACE FOR STRAW OR SIMILAR MATERIAL

Publication  
**EP 0114219 B1 19861210 (DE)**

Application  
**EP 83111204 A 19831110**

Priority  
DE 3247484 A 19821222

Abstract (en)  
[origin: EP0114219A2] 1. Furnace for straw or similar material, with a horizontal, tubular combustion chamber (2) projecting into a heating boiler (1), into which chamber the fuel is inserted from the outside in the axial direction and to which the combustion air is supplied from an annular space (11) on the circumferential side encasing the combustion chamber (2), the shape of the combustion chamber (2) and the arrangement of the supply of combustion air being so co-ordinated with each other that they force the combustion air and the gasified fuel components into two powerful twisting movements (23, 24) and direct them as eddy currents in the axial direction closely over an incandescent bed (34) lying on the floor (10) of the combustion chamber, characterized in that the twisting movements (23, 24) are produced by a baffle plate (18) underneath the incandescent bed (34), which plate completely overlaps air supply openings (17) which are arranged in the combustion chamber floor (10) and run in the longitudinal direction of the combustion chamber, so that between the baffle plate (18) and the combustion chamber floor (10) a clearance space (20) is formed for the combustion air to flow out laterally, the lateral air outflow (21, 22) additionally exerting a fluidized bed effect on the incandescent bed (34).

IPC 1-7  
**F23G 7/10**; **F23B 1/30**; **F24B 5/02**

IPC 8 full level  
**F23G 7/10** (2006.01); **F23M 9/02** (2006.01); **F24B 5/02** (2006.01); **F24B 13/02** (2006.01)

CPC (source: EP)  
**F23B 1/30** (2013.01); **F23G 7/10** (2013.01); **F23M 9/02** (2013.01)

Cited by  
EP2762819A1; FR2671166A1; FR2907198A1; CN102269403A; CN103836614A; WO02068865A1; WO0125697A1; WO2008043920A3

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