

Title (en)

COMBUSTION FURNACE WITH A SECONDARY-AIR FEED, IN PARTICULAR AN UNDER-BURNING BOILER

Title (de)

VERBRENNUNGSOFEN MIT SEKUNDÄRLUFTFÜHRUNG, INSBESONDERE UNTERBRAND-HEIZKESSEL

Title (fr)

FOUR A COMBUSTION AVEC CANALISATION D'AIR SECONDAIRE, EN PARTICULIER CHAUDIERE A COMBUSTION PAR LE BAS

Publication

EP 0871839 B1 19991201 (DE)

Application

EP 96900081 A 19960101

Priority

DE 9600002 W 19960101

Abstract (en)

[origin: WO9724556A1] The invention concerns a combustion furnace (1), in particular an under-burning boiler, designed to burn solid fuels such as waste wood, the furnace having a feed shaft (2) with, located behind it, a secondary combustion chamber (3) which has secondary-air inlets (4) at the smoke inlet located at the bottom, on the feed-shaft side. In front of the secondary-air inlets (4) is a grate (5) with suspended air-supply fittings (8). Behind the secondary-air inlets (4), in the secondary combustion chamber (3) are tertiary inlets (13). The secondary combustion chamber (3) is designed so that the combustion gases circulate round it. It has blocks (15, 16), fitted to the walls at the top, which cause turbulent flow and it also has at least one preliminary-heating or after-heating head (25 or 26, respectively), in particular at the outlet end. This design ensures strong combustion-gas turbulence and optimum secondary combustion with little pollution during operation.

IPC 1-7

F23B 5/04; **F23L 9/00**

IPC 8 full level

F23L 9/00 (2006.01)

CPC (source: EP US)

F23B 5/04 (2013.01 - EP US); **F23L 9/00** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE FR LI

DOCDB simple family (publication)

WO 9724556 A1 19970710; AU 4327096 A 19970728; DE 19681185 D2 19990128; DE 59603810 D1 20000105; EP 0871839 A1 19981021; EP 0871839 B1 19991201

DOCDB simple family (application)

DE 9600002 W 19960101; AU 4327096 A 19960101; DE 19681185 T 19960101; DE 59603810 T 19960101; EP 96900081 A 19960101