Title (en)

APPARATUS FOR IMPROVING THE OPERATIONAL CHARACTERISTICS OF A HEATING APPLIANCE WITH SUBMERGED COMBUSTION

Publication

EP 0135639 B1 19890412 (FR)

Application

EP 83401863 A 19830923

Priority

EP 83401863 A 19830923

Abstract (en)

[origin: EP0135639A1] 1. Plant of the type comprising at least one burner (1) having a submerged combustion chamber (3), a fuel intake, an intake for combustion air pressurized by a blower (7) or the like and operated as soon as the plant is switched on by means of a start/stop button (20), an automatic lighting device comprising sparking means (11) or the like, a programmer (6) which successively and at the appropriate moments commands an airscavening of the plant, the arrival of fuel, ignition of the burner and stoppage of the fuel supply, the said plant being characterized in that - the blower (7) is directly supplied by the circuit (21) for switching on the plant and is controlled by means of a delayed action relay (19) which is itself energized by the said circuit (21) via the start/stop button for operating the plant ; - and in that it comprises in parallel with the intake of combustion air (29) to the burner (1) a branching circuit (22) which blows air over the spark plugs (11) or the like and which is operated by an electrically operated valve (23) via a delayed action relay (25) energized by the programmer (6), the time lag corresponding substantially to the time required for air-scavenging of the plant prior to the arrival of fuel and ignition of the burner.

IPC 1-7

F23M 11/00; F23C 3/00; F24H 1/10

IPC 8 full level

F23C 3/00 (2006.01); **F23M 11/00** (2006.01); **F24H 1/10** (2006.01)

CPC (source: EP)

F23C 3/004 (2013.01); **F23M 11/00** (2013.01); **F24H 1/107** (2013.01)

Cited by

CN109990273A; CN111189230A

Designated contracting state (EPC)

BE CH DE GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0135639 A1 19850403; **EP 0135639 B1 19890412**; DE 3379592 D1 19890518

DOCDB simple family (application)

EP 83401863 A 19830923; DE 3379592 T 19830923