

Title (en)  
Combustion furnace controller

Title (de)  
Verbrennungsofensteuerung

Title (fr)  
Régulateur pour four de combustion

Publication  
**EP 2273195 B1 20180307 (EN)**

Application  
**EP 10251059 A 20100608**

Priority  
JP 2009138117 A 20090609

Abstract (en)  
[origin: US2010307387A1] A combustion furnace control apparatus for which an operation control system that ensures the combustion safety of the combustion furnace can be constructed easily. Interlocks pertaining to the safe operation of a combustion furnace are classified as a 1st interlock pertaining to the safe operation of the overall combustion furnace, a 2nd interlock pertaining to the combustion environment of a combustion zone and a 3rd interlock pertaining to the combustion of a burner. Whereby, a common control module judges the state of the 1st interlock and controls the overall operation of the combustion furnace; a combustion zone control module, receiving a control signal from the common control module, operates to judge the state of the 2nd interlock and prepare the combustion environment for the combustion zone; and a burner control module, receiving a control signal from the combustion zone control module, operates to judge the state of the 3rd interlock and control the operation of the burner.

IPC 8 full level  
**F23N 5/24** (2006.01)

CPC (source: EP US)  
**F23N 5/242** (2013.01 - EP US); **F23N 2227/04** (2020.01 - EP US); **F23N 2227/12** (2020.01 - EP US)

Designated contracting state (EPC)  
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**US 79484010 A 20100607**; CN 201010206748 A 20100609; EP 10251059 A 20100608; JP 2009138117 A 20090609