

Title (en)
Combustion furnace controller

Title (de)
Verbrennungsofensteuerung

Title (fr)
Régulateur pour four de combustion

Publication
EP 2273195 A3 20140507 (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)

Citation (search report)

- [A] US 3849056 A 19741119 - SCHUSS J
- [A] GB 2082360 A 19820303 - ELECTRONICS CORP AMERICA
- [A] US 4015548 A 19770405 - SCHUSS JACK A
- [A] US 2004176858 A1 20040909 - KUWAHARA HIROKAZU [JP], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
US 2010307387 A1 20101209; CN 101922730 A 20101222; CN 101922730 B 20120718; EP 2273195 A2 20110112; EP 2273195 A3 20140507; EP 2273195 B1 20180307; JP 2010286128 A 20101224; JP 5421660 B2 20140219

DOCDB simple family (application)
US 79484010 A 20100607; CN 201010206748 A 20100609; EP 10251059 A 20100608; JP 2009138117 A 20090609