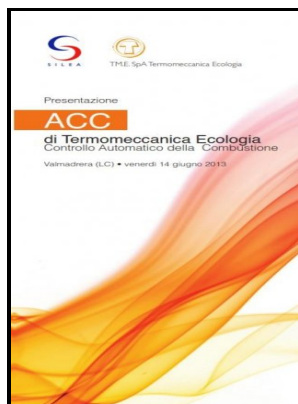# Automatic combustion control

ICS - How Do Burner Combustion Control Systems Work?

Description: -

-
Natural selection.
Evolution (Biology)
Steam-boilers -- Automatic control.Automatic combustion control
-Automatic combustion control
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YS1700 Boiler Combustion Control

The apparatus of claim 13 wherein said set point generator generates an O 2 set point which is a function of fuel mix and load.

What is combustion control?

Claims 16 automatically taking a first corrective action in the event of an unacceptable parameter transient in the first frequency range and automatically taking a second corrective action different than the first corrective action in the event of an unacceptable parameter transient in the second frequency range. The control system must therefore measure the flow rates of fuel oil and air in order to correctly regulate their proportions.

How Do Burner Combustion Control Systems Work?

The method of claim 5 wherein said O 2 set point is generated as a function of both load and fuel mixture and is calculated as a function of both the theoretical air requirements and the total air requirements for the fuels being burned. The existing EBT I thought was modulating. Thanks to a graphic display you will get immediate information about the temperatures of single sensors, if the pumps or another heat source is switched on.

Boiler Control System

That is why our company provides custom, adaptive designs for your combustion engines and energy systems. It should also be noted that functions and their combination are implemented by software in the microprocessor 275.

Automatic Controls for Wood Stoves

This is easily accomplished by means of switching methods well known in the art and derivable from what has been described hereinabove. There is no control of fuel rate but rather only a control of draft rate. As will be described more fully below with respect to the operation of system 10, controller 36 may also include a Fast Fourier Transform FFT function 54 and a plurality of timers 56, 58, 60, 62 that are used to implement various steps in a control process.

Automatic combustion control apparatus and method

The method may include: using average pressure data to identify unacceptable pressure transients in the first frequency range; and using instantaneous pressure data to identify unacceptable pressure transients in the second frequency range. .

Advantages and Disadvantages of Combustion Control Schemes

The second function limits the combustion air demand to be no less than that required to properly burn the existing fuel mix and quantities. The shaft S of the motor M also appears and is directly connected to brush B.

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