

Title (en)
DETECTION OF AN OBSTRUCTION

Title (de)
ERKENNUNG EINER BLOCKIERUNG

Title (fr)
DÉTECTION D'UN BLOCAGE

Publication
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Application
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Abstract (en)
[origin: US2018274782A1] The present disclosure deals with the detection of a blockage in the air-supply duct or flue of a burner assembly. In some embodiments, a method or system may detect blockages in the form of coverings and with burner assemblies to burn fossil fuels. For example, a control device may generate: a first air-control signal; a fuel-control signal by adjusting the actual values of the ionization current to the ionization-current setpoint; a setpoint increased by a specified amount from the ionization-current setpoint; and a changed fuel-control signal by adjusting the actual values of the ionization current to the increased setpoint in the case of a first air-control signal. The control device may evaluate the changed fuel-control signal generated based on the increased setpoint by comparing it with a specified maximum value and based on the evaluation, to detect a blockage. The control device may recognize the blockage based on the evaluation if the fuel-control signal generated using the increased setpoint exceeds the specified maximum value.

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