

Title (en)

BURNER CONTROL SYSTEMS AND METHODS OF OPERATING A BURNER

Title (de)

BRENNERSTEUERSYSTEME UND VERFAHREN ZUM BETRIEB EINES BRENNERS

Title (fr)

SYSTÈMES DE COMMANDE DE BRÛLEUR ET PROCÉDÉS DE FONCTIONNEMENT D'UN BRÛLEUR

Publication

**EP 2633236 A2 20130904 (EN)**

Application

**EP 11778663 A 20111025**

Priority

- GB 201018178 A 20101028
- GB 2011052072 W 20111025

Abstract (en)

[origin: GB2484957A] A burner control system for controlling operation of a burner 1 includes a control unit 10 that controls the flow of air in duct 5 and fuel (gas in duct 2) with valves 4,7 and fans 3,6, receives inputs of ambient air pressure and/or temperature from sensors 14, 15 & from an exhaust gas analysis system 9, and uses the inputs to trim the proportion of air to fuel fed to the burner, the control unit 10 having a store 13 in which pairs of valve settings for air and fuel are stored together with readings of gas pressure from a sensor 11 and of air pressure from a sensor 12. The burner can be for heating a large building. The system uses the stored values for initial control until gas analysis data is available, and can use the pressure readings to identify a fault.

IPC 8 full level

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CPC (source: EP GB US)

**F23N 1/00** (2013.01 - GB); **F23N 1/022** (2013.01 - EP US); **F23N 3/00** (2013.01 - GB); **F23N 5/003** (2013.01 - EP US); **F23N 5/18** (2013.01 - EP US); **F23N 5/184** (2013.01 - EP US); **F23N 5/242** (2013.01 - EP US); **F23N 5/26** (2013.01 - GB); **F23N 2005/181** (2013.01 - EP US); **F23N 2005/185** (2013.01 - EP US); **F23N 2223/54** (2020.01 - EP US); **F23N 2225/06** (2020.01 - EP US); **F23N 2225/14** (2020.01 - EP US); **F23N 2231/00** (2020.01 - EP US); **F23N 2231/18** (2020.01 - EP US); **F23N 2231/26** (2020.01 - EP US); **F23N 2235/06** (2020.01 - EP US); **F23N 2235/12** (2020.01 - EP US)

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