

Title (en)

AUTOMATIC AIR-FLOW SETTINGS IN COMBUSTION SYSTEMS AND ASSOCIATED METHODS

Title (de)

AUTOMATISCHE LUFTSTRÖMUNGSEINSTELLUNGEN IN VERBRENNUNGSSYSTEMEN UND ZUGEHÖRIGE VERFAHREN

Title (fr)

RÉGLAGES AUTOMATIQUES DE DÉBIT D'AIR DANS DES SYSTÈMES DE COMBUSTION, ET PROCÉDÉS ASSOCIÉS

Publication

EP 3948081 A1 20220209 (EN)

Application

EP 20744107 A 20200619

Priority

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- IB 2020055823 W 20200619

Abstract (en)

[origin: WO2020255092A1] Systems and methods iteratively solve a fired-systems model of the process heater based on fuel information, a target heat release of the plurality of burners, ambient air information, and available airflow at each of the plurality of burners to identify optimized burner air register settings to achieve a target global excess oxygen level to be sensed by the oxygen sensor. The optimized burner air register settings may be output to a heater controller of the process heater for control of the process heater.

IPC 8 full level

F23N 3/00 (2006.01); **F23N 5/00** (2006.01)

CPC (source: EP US)

F23L 3/00 (2013.01 - EP); **F23N 1/022** (2013.01 - US); **F23N 3/002** (2013.01 - EP US); **F23N 5/006** (2013.01 - EP US); **F23N 2223/04** (2020.01 - US); **F23N 2223/40** (2020.01 - EP); **F23N 2225/04** (2020.01 - US); **F23N 2235/04** (2020.01 - US); **F23N 2235/06** (2020.01 - US); **F23N 2237/02** (2020.01 - EP US)

Citation (search report)

See references of WO 2020255092A1

Designated contracting state (EPC)

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DOCDB simple family (application)

IB 2020055823 W 20200619; EP 20744107 A 20200619; US 202017613956 A 20200619