

Title (en)  
DEVICE FOR THE CONTROL OF A BURNER ASSEMBLY

Title (de)  
EINRICHTUNG ZUR REGELUNG EINER BRENNERANLAGE

Title (fr)  
DISPOSITIF DE COMMANDE D'UNE INSTALLATION DE BRÛLEUR

Publication  
**EP 3045816 B1 20181212 (DE)**

Application  
**EP 15151600 A 20150119**

Priority  
EP 15151600 A 20150119

Abstract (en)  
[origin: CA2917749A1] A device for regulating a burner system with at least one burner and at least one ionization electrode that lies in a flame of the at least one burner when the burner system is operating. The regulation device is configured to (a) set an air volume flow rate of the burner system, (b) record an ionization current based on the ionization electrode(s), (c) store, in memory, pairs of air volume flow rate of the burner system and ionization current, (d) form a difference between the reciprocal value of a first ionization current for a first air volume flow rate and a reciprocal value of a second ionization current recorded prior to the first ionization current and associated with the first air volume flow rate and (e) calculate the value of a displaced ionization current as the sum of this difference and of the reciprocal value of a further ionization current.

IPC 8 full level  
**F23N 5/12** (2006.01)

CPC (source: EP US)  
**F23C 99/001** (2013.01 - US); **F23N 5/12** (2013.01 - EP US); **F23N 5/123** (2013.01 - EP US)

Citation (examination)

- EP 1293727 A1 20030319 - SIEMENS BUILDING TECH AG [CH]
- US 5049063 A 19910917 - KISHIDA TERUHIKO [JP], et al

Cited by  
EP4119847A1; EP3182007A1; DE102019131577A1; EP3382277A1; US11231174B2; EP3825610A1

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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3045816 A1 20160720; EP 3045816 B1 20181212**; CA 2917749 A1 20160719; CA 2917749 C 20180313; PL 3045816 T3 20190731; US 10054309 B2 20180821; US 2016209026 A1 20160721

DOCDB simple family (application)  
**EP 15151600 A 20150119**; CA 2917749 A 20160115; PL 15151600 T 20150119; US 201514982171 A 20151229