

Title (en)  
Control device for a burner

Title (de)  
Regeleinrichtung für einen Brenner

Title (fr)  
Dispositif de commande pour un brûleur

Publication  
**EP 1154202 A2 20011114 (DE)**

Application  
**EP 01110418 A 20010427**

Priority  
• DE 10023265 A 20000512  
• DE 10025769 A 20000526

Abstract (en)  
The regulating device (15) for a burner has an ionization electrode (16) in the flame area of the burner influencing the fuel and air feed amounts dependent upon a positioning signal (18). Connected beyond the ionization electrode is an ionization evaluator (14) which produces an ionization signal (13). In a control unit (23), in which characteristic data is stored for determining a first condition of the positioning member (17), is produced time wise a first control signal (24). A regulator (26) produces the positioning signal at least time wise dependent upon the ionization signal and likewise dependent upon the first control signal (24).

Abstract (de)  
Eine Regeleinrichtung (15) für einen Brenner regelt das Luft-Gasverhältnis über eine Ionisationselektrode (16). Bei dynamischen Leistungsänderungen findet eine Vorsteuerung statt, gemäss der Erfindung mit zwei oder mehr gespeicherten Kennlinien. <IMAGE>

IPC 1-7  
**F23N 1/02**; **F23N 5/12**

IPC 8 full level  
**F23N 1/02** (2006.01); **F23N 5/12** (2006.01)

CPC (source: EP KR US)  
**F23N 1/022** (2013.01 - EP US); **F23N 5/12** (2013.01 - KR); **F23N 5/123** (2013.01 - EP US); **F23N 2223/04** (2020.01 - EP US); **F23N 2223/08** (2020.01 - EP US); **F23N 2223/36** (2020.01 - EP US); **F23N 2223/44** (2020.01 - EP US); **F23N 2225/30** (2020.01 - EP US); **F23N 2227/20** (2020.01 - EP US); **F23N 2233/08** (2020.01 - EP US); **F23N 2235/16** (2020.01 - EP US)

Citation (applicant)  
• DE 3937290 A1 19900517 - VAILLANT JOH GMBH & CO [DE]  
• IT MI950566 U1 19970127 - BERETTA A ING SPA [IT]  
• EP 0909922 A1 19990421 - IABER SPA [IT]  
• EP 0806610 A2 19971112 - STIEBEL ELTRON GMBH & CO KG [DE]

Cited by  
DE102019101329A1; DE102021214839A1; EP4435322A1; EP4060233A1; EP4060232A1; EP4397908A1; EP1396681A1; EP2871473A1; DE102011111453A1; EP3290800A1; EP4141322A1; DE102021121027A1; WO2017060135A1; EP3663648A1; EP4283195A1; EP4283196A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1154202 A2 20011114**; **EP 1154202 A3 20030514**; **EP 1154202 B1 20040616**; **EP 1154202 B2 20091209**; AT E269515 T1 20040715; DE 10025769 A1 20011115; DE 50102575 D1 20040722; DK 1154202 T3 20041025; DK 1154202 T4 20100426; JP 2001355841 A 20011226; JP 4897150 B2 20120314; KR 100887418 B1 20090306; KR 20010104275 A 20011124; US 2001051107 A1 20011213; US 6537059 B2 20030325

DOCDB simple family (application)  
**EP 01110418 A 20010427**; AT 01110418 T 20010427; DE 10025769 A 20000526; DE 50102575 T 20010427; DK 01110418 T 20010427; JP 2001128588 A 20010426; KR 20010025779 A 20010511; US 85052901 A 20010507