

Title (en)
METHOD FOR AUTOMATIC CONTROL OF A BURNER FOR SOLID FUEL

Title (de)
VERFAHREN ZUR AUTOMATISCHEN STEUERUNG EINES FESTBRENNSTOFFBRENNERS

Title (fr)
PROCEDE DE COMMANDE AUTOMATIQUE D'UN BRULEUR A COMBUSTIBLE SOLIDE

Publication
EP 1322893 A1 20030702 (EN)

Application
EP 01972889 A 20011005

Priority
• SE 0102159 W 20011005
• SE 0003600 A 20001006

Abstract (en)
[origin: WO0229326A1] The invention relates to a method for automatized combustion of solid fuel in a combustion apparatus which comprises a burner (1) which is connected to a boiler (400) and has a feeding-in opening (63, 62) for fuel and an outlet opening (3) which opens in a combustion chamber (401) inside the boiler which comprises a convection unit (402) and a flue gas pipe (407) for waste flue gases containing CO₂ and not combusted O₂, the combustion apparatus comprising a device (27) for feeding combustion air into the burner, and a fuel charge feeder (200, 212) for fuel provided to be driven by a motor (211), here called fuel charge feeding motor, the operation of the fuel charge feeding motor (211) being regulated by command from a control unit (300) in dependency on measured values transmitted to the control unit (300) in dependency on measured values transmitted to the control unit (300) and in dependency of the heat power the burner shall generate, and a measuring device (408) arranged for measuring the content of CO₂ and or O₂ in the flue gases. The invention is characterized by said measuring device (408) transmitting measuring signal to said control unit (300) regarding the contents of the flue gases and that the contents of the flue gases is regulated by means of the control unit (300) regulated the fuel charge feeding motor with reference to the values measured in the flue gases, maintaining an optimal content of the gas measured by the measuring device (408) in the flue pipe (407). The invention also relates to a combustion apparatus in which the above mentioned procedure is being applied.

IPC 1-7
F23N 1/00; **F23N 5/00**; **F23B 1/32**

IPC 8 full level
F23G 5/50 (2006.01); **F23N 1/00** (2006.01); **F23N 1/02** (2006.01); **F23N 5/00** (2006.01)

CPC (source: EP)
F23B 10/00 (2013.01); **F23B 30/04** (2013.01); **F23G 5/50** (2013.01); **F23N 1/022** (2013.01); **F23N 5/003** (2013.01); **F23G 2203/20** (2013.01); **F23G 2203/8013** (2013.01); **F23G 2205/121** (2013.01); **F23G 2207/20** (2013.01); **F23N 5/006** (2013.01); **F23N 2221/02** (2020.01); **F23N 2233/08** (2020.01); **F23N 2239/02** (2020.01); **F23N 2900/05002** (2013.01)

Citation (search report)
See references of WO 0229326A1

Cited by
DE102007063632A1

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)
WO 0229326 A1 20020411; AT E293231 T1 20050415; AU 9252301 A 20020415; DE 60110100 D1 20050519; DE 60110100 T2 20060119; DK 1322893 T3 20051212; EP 1322893 A1 20030702; EP 1322893 B1 20050413; SE 0003600 D0 20001006; SE 0003600 L 20020407; SE 517399 C2 20020604

DOCDB simple family (application)
SE 0102159 W 20011005; AT 01972889 T 20011005; AU 9252301 A 20011005; DE 60110100 T 20011005; DK 01972889 T 20011005; EP 01972889 A 20011005; SE 0003600 A 20001006