

Title (en)
Furnace Power Control

Title (de)
Ofenfeuerungsleistungsregelung

Title (fr)
Régulation de la puissance d'un four

Publication
EP 1785786 A1 20070516 (DE)

Application
EP 05024359 A 20051109

Priority
EP 05024359 A 20051109

Abstract (en)
The method involves detecting the capacity of flue gas generated in a combustion furnace, flue gas temperature and the flue gas composition using a sensor. The detected parameters are used for computing the theoretical value for a steam volume of a steam boiler in a predetermined thermal balance. The theoretical value of the steam volume is compared with a preset reference value, and the combustion power is regulated based on the comparison result.

IPC 8 full level
G05B 13/04 (2006.01); **F23N 5/00** (2006.01)

CPC (source: EP)
F23N 5/203 (2013.01); **F23N 1/08** (2013.01); **F23N 2241/10** (2020.01)

Citation (search report)

- [X] US 6681155 B1 20040120 - FUJITA KAORU [JP], et al
- [X] EP 0773408 A1 19970514 - HITACHI LTD [JP], et al
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- [X] WO 03102472 A1 20031211 - METSO AUTOMATION OY [FI], et al
- [X] DE 3520728 A1 19860116 - HITACHI LTD [JP]
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Citation (examination)
US 6522994 B1 20030218 - LANG FRED D [US]

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CN103576704A; DE102019217537A1; CN116499272A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1785786 A1 20070516; CN 1963307 A 20070516

DOCDB simple family (application)
EP 05024359 A 20051109; CN 200610143613 A 20061102