

Title (en)  
Method of operating a burner

Title (de)  
Verfahren zum Betrieb eines Brenners

Title (fr)  
Procédé de fonctionnement d'un brûleur

Publication  
**EP 0849532 A3 19990526 (DE)**

Application  
**EP 97810891 A 19971121**

Priority  
DE 19653059 A 19961219

Abstract (en)  
[origin: EP0849532A2] To operate the burner (1), of a gas turbine assembly, the auxiliary gas flow (15) is fed in on ignition and on a partial loading of the burner, at a higher pressure than the liquid fuel (2) flow. The auxiliary gas flow is interrupted at the zones of the burner where there is a high loading. When the flow of the auxiliary gas is broken, the liquid fuel is not interrupted. The auxiliary gas is fed to the burner from a pressure vessel or an auxiliary compressor. The auxiliary gas is air, an inert gas such as nitrogen, or an ignition gas such as propane or natural gas.

IPC 1-7  
**F23D 11/10**; **F23D 11/22**

IPC 8 full level  
**F23D 11/38** (2006.01); **F23C 99/00** (2006.01); **F23D 11/10** (2006.01); **F23D 11/22** (2006.01); **F23K 5/10** (2006.01)

CPC (source: EP US)  
**F23D 11/102** (2013.01 - EP US); **F23D 11/22** (2013.01 - EP US); **F23D 2206/10** (2013.01 - EP US)

Citation (search report)

- [A] GB 2161915 A 19860122 - COUNCIL SCIENT IND RES
- [A] DE 2300217 A1 19730802 - ARBED
- [A] US 3748087 A 19730724 - SHULAR H
- [A] US 4105163 A 19780808 - DAVIS JR LEWIS BERKLEY, et al
- [DA] LEFEBVRE A.: "atomization and sprays", 1989, WEST LAFAYETTE, INDIANA, XP002095982

Cited by  
EP2469167A1; DE19855069A1; WO2012084347A2; WO2012084347A3; WO2019104614A1

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

DOCDB simple family (publication)  
**EP 0849532 A2 19980624**; **EP 0849532 A3 19990526**; **EP 0849532 B1 20020410**; CN 1119568 C 20030827; CN 1186928 A 19980708; DE 19653059 A1 19980625; DE 59706957 D1 20020516; JP H10185109 A 19980714; US 6128894 A 20001010

DOCDB simple family (application)  
**EP 97810891 A 19971121**; CN 97108594 A 19971219; DE 19653059 A 19961219; DE 59706957 T 19971121; JP 35129597 A 19971219; US 98442497 A 19971203