

Title (en)
BURNER.

Title (de)
BRENNER.

Title (fr)
BRULEUR.

Publication
EP 0657011 A1 19950614 (DE)

Application
EP 94923708 A 19940701

Priority
• DE 4322109 A 19930702
• EP 9402156 W 19940701

Abstract (en)
[origin: US5522723A] PCT No. PCT/EP94/02156 Sec. 371 Date Mar. 1, 1995 Sec. 102(e) Date Mar. 1, 1995 PCT Filed Jul. 10, 1995 PCT Pub. No. WO95/01532 PCT Pub. Date Jan. 12, 1995. A burner with a housing enclosing a combustion chamber and with an inlet for a gas/air fuel mixture and an outlet for combustion gas is disclosed. The combustion chamber is filled with a porous material whose porosity varies along the combustion chamber in such a way that the pore size increases in the direction of flow of the gas/air mixture so that a critical Péclet number for the pore size and accordingly for flame development results at a boundary surface or in a determined zone of the porous material, above which number a flame can develop and below which number the flame development is suppressed.

IPC 1-7
F23C 11/00; F24H 1/40

IPC 8 full level
F23D 14/14 (2006.01); **F23C 13/00** (2006.01); **F23C 99/00** (2006.01); **F23D 14/16** (2006.01); **F24H 1/40** (2006.01); **F24H 1/00** (2006.01)

CPC (source: EP US)
F23C 13/00 (2013.01 - EP US); **F23C 99/006** (2013.01 - EP US); **F24H 1/40** (2013.01 - EP US); **F23D 2209/10** (2013.01 - EP US); **F24H 1/0045** (2013.01 - EP US)

Citation (search report)
See references of WO 9501532A1

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

DOCDB simple family (publication)
US 5522723 A 19960604; AT E176039 T1 19990215; CN 1046802 C 19991124; CN 1111914 A 19951115; DE 4322109 A1 19950112; DE 4322109 C2 20010222; DE 59407692 D1 19990304; DK 0657011 T3 19990913; EP 0657011 A1 19950614; EP 0657011 B1 19990120; ES 2129659 T3 19990616; GR 3029984 T3 19990730; JP 3219411 B2 20011015; JP H08507363 A 19960806; RU 2125204 C1 19990120; RU 95112038 A 19970110; WO 9501532 A1 19950112

DOCDB simple family (application)
US 39289295 A 19950301; AT 94923708 T 19940701; CN 94190459 A 19940701; DE 4322109 A 19930702; DE 59407692 T 19940701; DK 94923708 T 19940701; EP 9402156 W 19940701; EP 94923708 A 19940701; ES 94923708 T 19940701; GR 990401063 T 19990416; JP 50328195 A 19940701; RU 95112038 A 19940701