

Title (en)  
BURNER APPARATUS AND METHOD

Title (de)  
BRENNER UND VERBRENNUNGSVERFAHREN

Title (fr)  
BRULEUR ET PROCEDE

Publication  
**EP 0898687 A4 20000223 (EN)**

Application  
**EP 96915860 A 19960517**

Priority  
US 9607051 W 19960517

Abstract (en)  
[origin: WO9744618A1] A burner apparatus and method for the combustion of a fuel and an oxidizer includes a burner block (7) having a fuel line (1) for feeding fuel to a fuel port opening (12) into a combustion chamber and a plurality of oxidizer lines (32, 33, 34) positioned around the fuel line (1) for feeding an oxidizer to oxidizer ports (17, 18, 19, 20) to the combustion chamber for combustion with the fuel from the fuel port (12). The oxidizer lines and ports (13, 14, 15, 16 and 17, 18, 19, 20) are spaced around the fuel port (12) so that controlling the oxidizer is used to change the position and shape of the flame in the combustion chamber. Oxidizer control valves (36, 37, 38, 39) vary the amount of oxidizer fed through the oxidizer line so that the oxidizer control valves (36, 37, 38, 39) for each set of oxidizer lines are spaced around the fuel port (12) to allow both the position and shape of the burner flame to be controlled.

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IPC 8 full level  
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CPC (source: EP)  
**F23C 7/00** (2013.01); **F23D 14/22** (2013.01); **F23M 5/025** (2013.01); **F23D 2900/00013** (2013.01)

Citation (search report)

- [A] US 5302112 A 19940412 - NABORS JR JAMES K [US], et al
- [A] US 4439137 A 19840327 - SUZUKI TOMIO [JP], et al
- See references of WO 9744618A1

Cited by  
WO2006005577A1

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**WO 9744618 A1 19971127**; AT E222341 T1 20020815; AU 5751996 A 19971209; CA 2254978 A1 19971127; CA 2254978 C 20080909; CZ 292563 B6 20031015; CZ 369798 A3 19990414; DE 69623048 D1 20020919; DE 69623048 T2 20030430; EP 0898687 A1 19990303; EP 0898687 A4 20000223; EP 0898687 B1 20020814; MX PA98009613 A 20040310

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