

Title (en)
Atmospheric water cooled gas burner

Title (de)
Atmosphärischer, wassergekühlter Gasbrenner

Title (fr)
Brûleur atmosphérique à gaz refroidi par eau

Publication
EP 0905446 A3 19990908 (DE)

Application
EP 98114253 A 19980730

Priority
DE 19742089 A 19970924

Abstract (en)
[origin: EP0905446A2] The burner plate (12, 38) comprises a single stainless steel sheet, which has flame slots within a collar (28) for each gas-air mixer unit (10). The stainless steel sheet (30) is laser-welded to the burner plate, so that the edges (50) form a grid of mounting slots for the mixers, and hydraulically formed to provide coolant channels (42). The mixers are free flow units and are separated from the combustion space by the burner plate. The burner plate has a ceramic coating.

IPC 1-7
F23D 14/78; **F23D 14/08**; **F23D 23/00**

IPC 8 full level
F23D 14/04 (2006.01); **F23D 14/08** (2006.01); **F23D 14/78** (2006.01); **F23D 23/00** (2006.01)

CPC (source: EP)
F23D 14/045 (2013.01); **F23D 14/78** (2013.01)

Citation (search report)

- [A] DE 19542649 A1 19970522 - BOSCH GMBH ROBERT [DE]
- [A] EP 0582175 A1 19940209 - VAILLANT JOH GMBH & CO [DE]
- [A] DE 3903690 A1 19890817 - VAILLANT JOH GMBH & CO [DE]
- [A] DE 29614706 U1 19961002 - VAILLANT JOH GMBH & CO [DE]
- [AD] DE 9216605 U1 19930311

Cited by
EP4092322A1; GB2606769A; WO0244618A1

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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EP 0905446 A2 19990331; **EP 0905446 A3 19990908**; **EP 0905446 B1 20031217**; AT E256841 T1 20040115; DE 19742089 A1 19990325; DE 19742089 C2 20020307; DE 59810446 D1 20040129

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