

Title (en)

Gas burner with multiple flame rings

Title (de)

Gasbrenner mit mehreren Flamenringen

Title (fr)

Brûleur à gaz à multiples couronnes de flammes

Publication

EP 1120603 A3 20010816 (FR)

Application

EP 01400042 A 20010109

Priority

FR 0001120 A 20000128

Abstract (en)

[origin: US2001010897A1] A gas burner with multiple gas rings comprising: a burner body (6) mountable underneath a top plate, with a cut-out section, of an appliance and incorporating a first, upwardly directed gas injector (14) and a second gas injector (9) followed by a horizontal tubular Venturi (10) opening into a vertical well (12); an outer burner head (3) seated on the body (6) through the cut-out section and spaced at a distance above the plate and provided with an annular chamber (22) open above the well (12) and having one or two rows of orifices for flames (4,5); and an inner burner head (1) shaped so as to have a radial divergent (37) coaxially supplied by the first injector through a recess located at the center (31) of the head (3), ports being provided in the head (3) so that all the primary air and the secondary air needed to operate the multiple burner arrives from the top of the top plate of the appliance.

IPC 1-7

F23D 14/06; **F24C 3/08**

IPC 8 full level

F23D 14/06 (2006.01); **F24C 3/08** (2006.01)

CPC (source: EP US)

F23D 14/065 (2013.01 - EP US); **F24C 3/085** (2013.01 - EP US); **F23D 2900/14062** (2013.01 - EP US)

Citation (search report)

- [Y] FR 2650369 A1 19910201 - MERLONI ELETTRODOMESTICI SPA [IT]
- [Y] EP 0926437 A1 19990630 - BOSCH SIEMENS HAUSGERAETE [DE]
- [A] EP 0634608 A2 19950118 - DEFENDI OFF MEC SRL [IT]
- [A] US 5277576 A 19940111 - HARTUNG KARL-HEINZ [DE], et al
- [A] WO 9908046 A1 19990218 - DEFENDI OFF MEC SRL [IT], et al

Cited by

CN104713084A; DE10315343A1; CN105934633A; DE20019731U1; EP2226560A3; KR101476563B1; CN105546537A; US2010319677A1; US8746229B2; AU2007355135B2; EP2258982A3; EP2053309A1; CN103742909A; CN112268276A; WO2008058934A1; WO2009053125A1; EP2258982A2; US8221116B2; KR101479807B1; WO2008116773A3; WO2018166067A1; US9127838B2; WO2017093615A1; US10551057B2; EP2072895A1

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