

Title (en)
Triple crown gas burner for cooking hobs

Title (de)
Gasbrenner mit drei Kronen für Küchenkochfeld

Title (fr)
Brûleur à trois couronnes pour tables de cuisson

Publication
EP 1531304 A3 20090729 (EN)

Application
EP 04380216 A 20041103

Priority
ES 200302586 U 20031111

Abstract (en)
[origin: EP1531304A2] The gas burner for a cooking hob includes a circular body (2) with at least one peripheral flame crown (3,4) and one central flame crown (5), each of them with its respective annular chamber (6,7) for distributing the mixture (M), various horizontal venturi ducts (9b) extending in a radial direction, and a radial channel (13a) formed below the surface of the crowns (3,4,5), its length (L) being longer than the radius (R) of the area of the central chamber (7), whereby the circulation path (L) of said flow portion (Fc) is prolonged for the purpose of the complete homogenizing the mixture. Said radial branch channels (13a) extend from the peripheral end (16) of each radial venturi duct (9b) in a radial direction upstream as far as an opening (17) in the bottom of the central chamber (7), and they are formed by means of an intermediate plate (13) between the body (2) of the flame crowns and said radial venturi ducts (9b).

IPC 8 full level
F23D 14/06 (2006.01)

CPC (source: EP)
F23D 14/06 (2013.01); **F23D 2900/14062** (2013.01)

Citation (search report)
• [DA] WO 9911975 A1 19990311 - ELECTROLUX AB [SE], et al
• [A] EP 0797048 A1 19970924 - SABAF SPA [IT]

Cited by
CN105987383A; CN114321917A; US7967004B2; US7901205B2; CN110207161A; CN111189047A; EP2947386A3; AU2012203266B2; AU2012203266B8; AU2012203266A8; EP2629010A3; US8689779B2; US8662069B2; US11940148B2; CN102466228A; EP2211095A3; EP3748230A1; WO2012077050A3; WO2007007298A3; WO2008104845A3; US8683991B2; US8746229B2; US9285115B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL HR LT LV MK YU

DOCDB simple family (publication)
EP 1531304 A2 20050518; EP 1531304 A3 20090729; EP 1531304 B1 20110803; AT E519074 T1 20110815; ES 1056041 U 20040216; ES 1056041 Y 20040601; ES 2370637 T3 20111221

DOCDB simple family (application)
EP 04380216 A 20041103; AT 04380216 T 20041103; ES 04380216 T 20041103; ES 200302586 U 20031111