

Title (en)

Arrangement for heat protection of a heat-sensitive material from a heat source, kitchen hob and method for heat protection

Title (de)

Anordnung für Wärmeschutz eines wärmeempfindlichen Materials einer Wärmequelle, Küchenkochfeld und Wärmeschutzverfahren

Title (fr)

Agencement pour protéger d'une source de chaleur un matériau thermosensible, plaque de cuisson et procédé de protection thermique

Publication

EP 2876372 A1 20150527 (EN)

Application

EP 13194060 A 20131122

Priority

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Abstract (en)

The invention discloses an arrangement for heat protection, a kitchen hob and a method for heat protection. Characteristically it is particularly suitable for a flush-mounted gas burner (115) and to protect a workplate (105) made of heat-sensitive material from the heat emanated from the flush-mounted gas burner. Three thermal effects are used to protect the heat-sensitive material (105), i.e. thermal conduction (5410), thermal convection (5650) and heat reflection (5350). A U-shaped profile (3200) located adjacent to the housing (4025) of the kitchen hob and to the cutout of the workplate allows to direct an air stream towards the gas burners (115, 5150, 5120, 5130, 5140) to improve the combustion as well as to provide cooling to the cutout. Accordingly, a normal industry standardized cutout may be used for a flush-mounted kitchen hob.

IPC 8 full level

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CPC (source: EP)

F24C 15/101 (2013.01); **F24C 15/108** (2013.01)

Citation (applicant)

DE 4004093 A1 19910814 - MIELE & CIE [DE]

Citation (search report)

- [X] DE 7121622 U
- [X] WO 2008084918 A1 20080717 - LG ELECTRONICS INC [KR], et al
- [X] EP 1444942 A1 20040811 - SAMSUNG ELECTRONICS CO LTD [KR]
- [XA] WO 2013044704 A1 20130404 - ZHANG WEISHENG [CN]
- [X] DE 102006037241 A1 20070412 - BSH BOSCH SIEMENS HAUSGERAETE [DE]

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