

Title (en)
Gas cooking top with safety system

Title (de)
Gaskochstelle mit Sicherheitssystem

Title (fr)
cuisinière à gaz avec un mécanisme de sécurité

Publication
EP 2578947 A1 20130410 (EN)

Application
EP 12187055 A 20121002

Priority
IT TO20110882 A 20111003

Abstract (en)
The present invention relates to a cooking appliance comprising at least one flat gas burner (105, 106, 107, 108), a cover (104) that closes on top of the flat burner (105, 106, 107, 108), a gas supply line (201) and a first gas circuit (202) supplying gas to the flat burner (105, 106, 107, 108), and at least one ionization flame detector (305, 306, 307, 308) associated with the flat burner and adapted to generate a signal dependent on the presence of a flame at the flat burner. The cooking appliance further comprises cover closure sensing means (212), adapted to output a signal when the cover (104) is closed, and two electrovalves (209, 210) arranged in series and adapted to stop the gas flow towards the flat burner, and further comprising control means (211, 213) operationally connected to the two electrovalves (209, 210) and to the ionization flame detector, and adapted to cause the closing of the two electrovalves (209, 210) depending of the signal received from the ionization flame detector, wherein the control means (213) are also operationally connected to the closure sensing means (212) and are adapted to cause the closing of at least one (210) of the two electrovalves (209, 210) depending of the second signal received from the closure sensing means (212).

IPC 8 full level
F24C 3/12 (2006.01)

CPC (source: EP)
F24C 3/126 (2013.01)

Citation (applicant)
• US 7044729 B2 20060516 - AYASTUY INAKI [ES], et al
• GB 2249382 A 19920506 - TURNRIGHT CONTROLS [GB]
• EP 0964326 B1 20020814 - ISPHORDING GERMANY GMBH [DE]

Citation (search report)
• [I] GB 2344877 A 20000621 - STOVES GROUP PLC [GB]
• [A] WO 0129483 A1 20010426 - REPPER PIERRE [CA], et al

Cited by
CN105351977A; CN110332570A; US10690057B2; WO2015155736A3; US11486577B1

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