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(71) Applicant: **BARALDI SRL**
20030 Senago (MI) (IT)

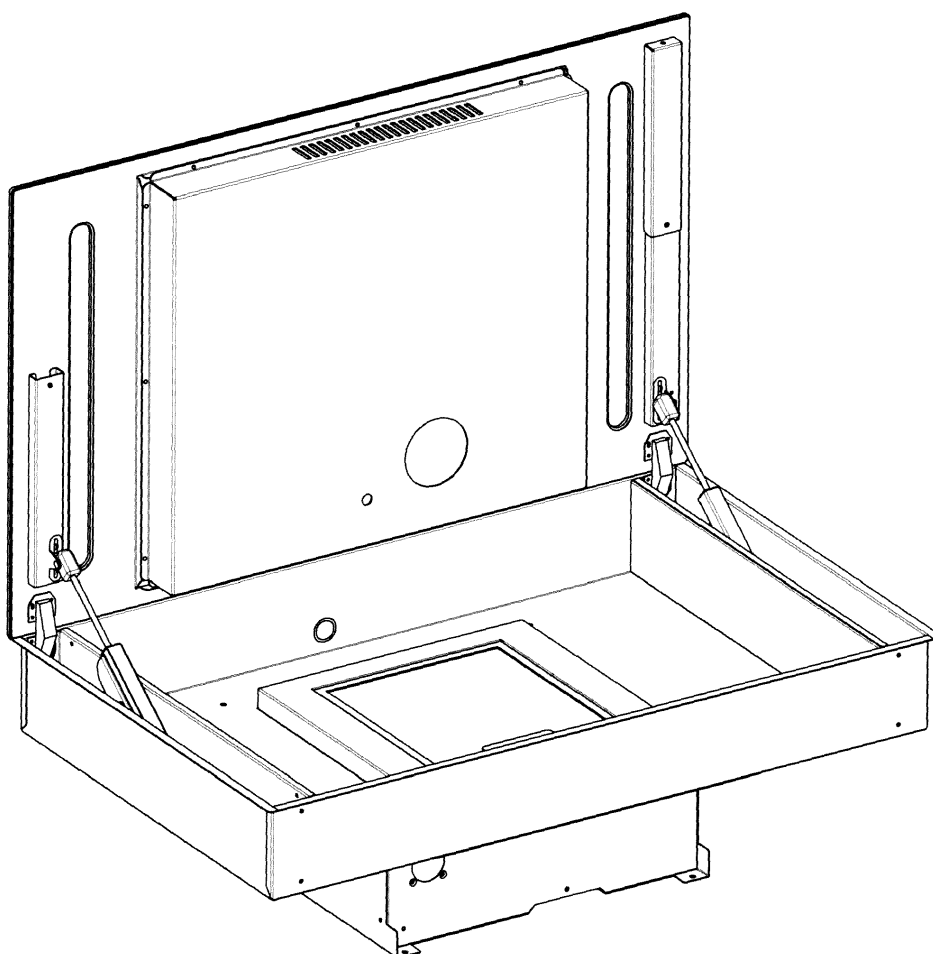
(72) Inventor: **The designation of the inventor has not
yet been filed**

(54) **OPENING SYSTEM WITH GAS STRUTS AND HINGES FOR INDUCTION HOB WITH
INTEGRATED COOKER HOOD**

(57) This invention is applied to the induction hobs
with integrated cooker hood and regards a new opening
system with gas struts and hinges that permit the possi-

bility of opening by lifting the ceramic glass cooking plane.
The system include a lower metal sink to collect the liquid
or solid residues.

FIG 2.
PANEL OPENED



Description

[0001] The present invention has for object an opening system with gas struts and hinges for an induction hob with integrated cooker hood. The induction hobs with integrated cooker hood until now did not foresee the possibility of opening by lifting the ceramic glass cooking plane. Extraction area through holes, slots or grills provided access to the bottom only by the removal of protective metal elements or parts in glass of all the different solutions.

[0002] The ceramic glass cooking plane was fixed and there was no possibility to raise it after installation. The advantage of the present invention is the ability to manually raise and with ease the top glass of the hob, to access to the lower compartment where they can fall and settle the solid or liquid residues generated during the phase of food preparation. The invention provides some gas struts to the system to facilitate lifting of the ceramic glass top that is hinged by hinges that rotate and translate. When is open the ceramic glass top remains in a stable position by itself, thanks to the force exerted by the applied mechanisms. The same mechanisms accompanying the movement also during the closure phase till the contact between glass top and the lower metallic element. The practical advantage includes the simplicity of use and ease of access for all cleaning and maintenance operations of the lower compartment where there is the extraction air passage.

[0003] The invention is explained now with reference to the accompanying drawings, where is shown first the panel of ceramic glass in the closed position (Fig.1). In this situation it is possible to use the induction hob with any adequate pot for cooking various foods. In this position also the integrated cooker hood can works properly at different speeds extracting the fumes and vapors in the vicinity, generated by the cooking hob operations. The position (Fig.2) shows instead the ceramic glass totally open with the lower induction electrical parts coupled to the glass itself. In this position it is possible a full access to the lower metal section that is used as collecting tank and where there is also the filter of the cooker hood. This filter is raised from the bottom to create a barrier between the liquid and solid residues, which can fall through the grid inside the parts of the motor. The electrical motor is positioned in a specific structure in the lowest part of the product. In the drawing are seen in clear evidence to the double gas struts (Fig.3) that guide and support the movement in the phase of opening and closing of the ceramic glass top. The location and the connection between of the gas struts is designed to make the entire process of movement smooth and safe, avoiding the rapid fall of the glass ceramic.

[0004] It is possible to see also the hinges (Fig.4) that connect the ceramic glass panel and others upper parts with the lower structure. The type, size and location of the gas struts and the hinges may vary depending on the version and level of product development, without how-

ever departing from the scope of the invention, and then by the patent limits.

Claims

1. st - Opening system for induction hob with integrated cooker hood, **characterized by** an upper ceramic glass panel with slits that can be opened through the manual lifting without the need of any tools.
2. nd - Opening system for induction hob with integrated cooker hood according to claim 1 st equipped with gas struts that help the user in opening and closing phases of the upper ceramic glass.
3. rd - Opening system for induction hob with integrated cooker hood according to claims 1 st and 2nd with upper ceramic glass and induction parts connected to the lower structure through hinges.
4. th - Opening system for induction hob with integrated cooker hood according to claims 1 st and 2nd and 3rd with metal lower section created to collect the liquid and solid waste extracted during operations of cooking.
5. th - Opening system for induction hob with integrated cooker hood according to previous claims with removable grease filter positioned in the center of the lower tank and raised from bottom to avoid the fall of liquid and solid food debris or other residue inside the electrical motor.
6. th - Opening system for induction hob with integrated cooker hood according to previous claims with disposal of mechanical and metal components to protect the electrical parts of the induction hob and cooker hood.

FIG 1.
PANEL CLOSED

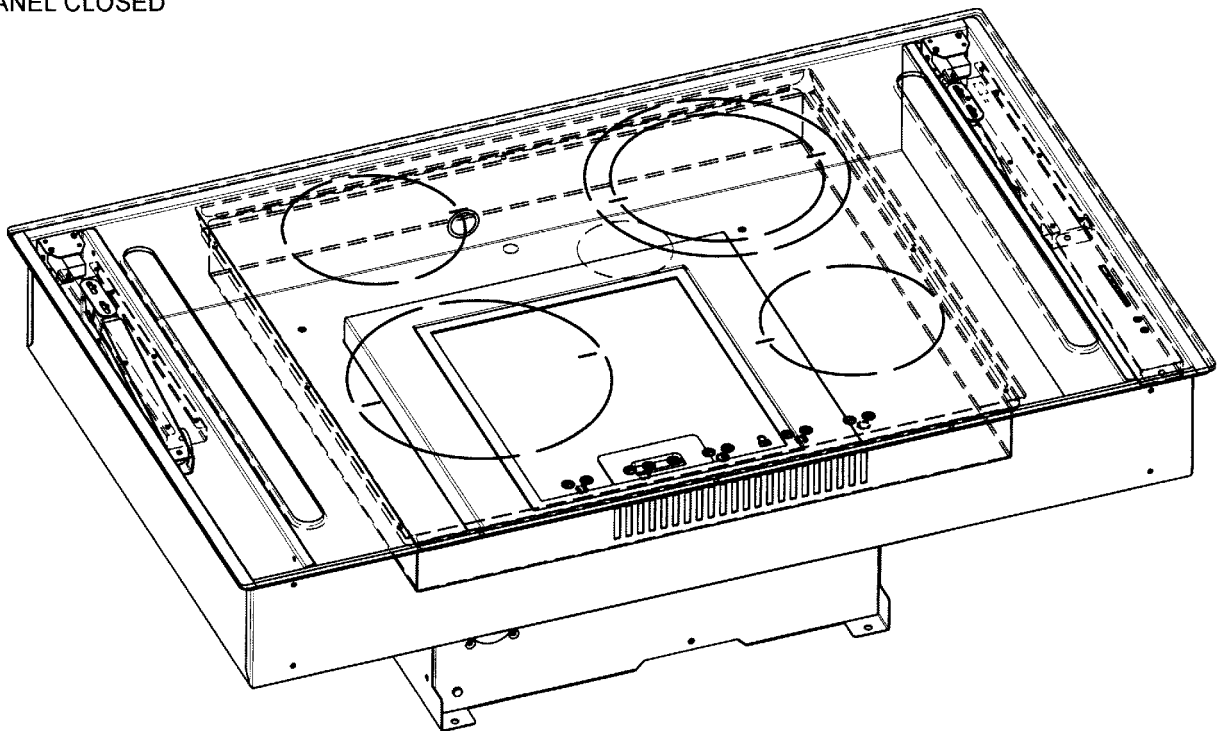


FIG 2.
PANEL OPENED

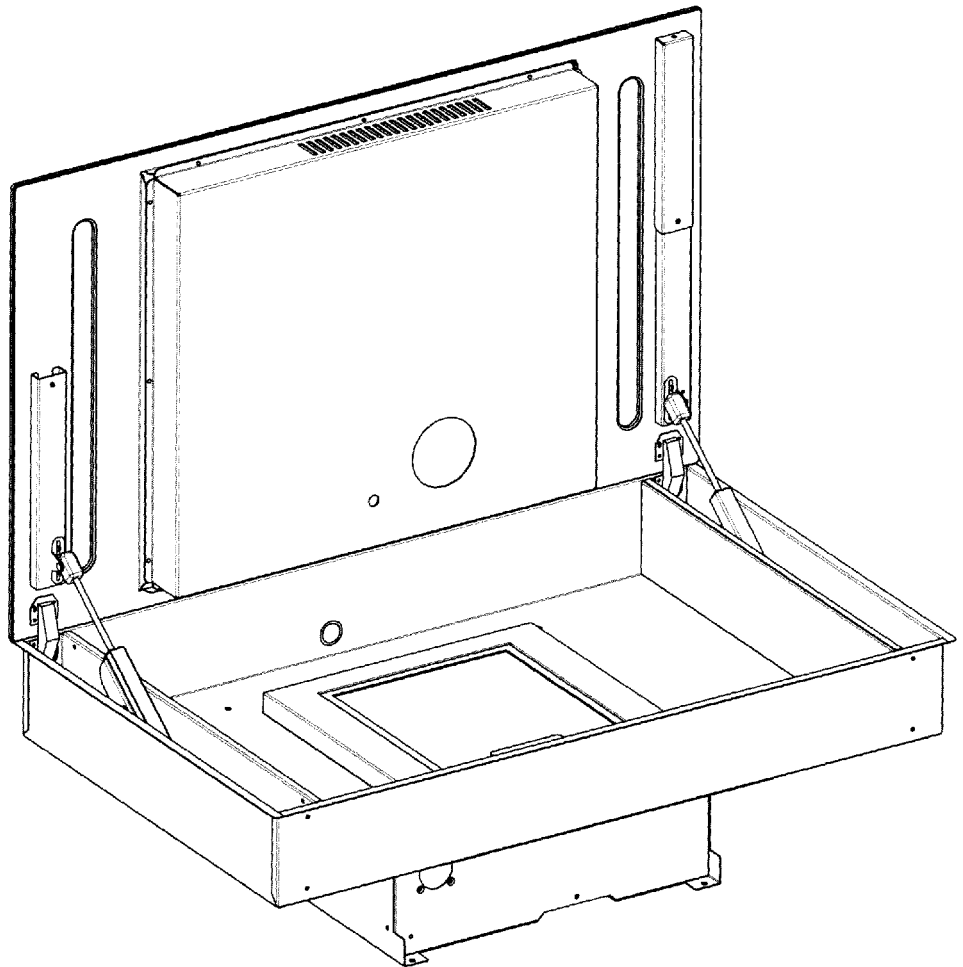


FIG 3.

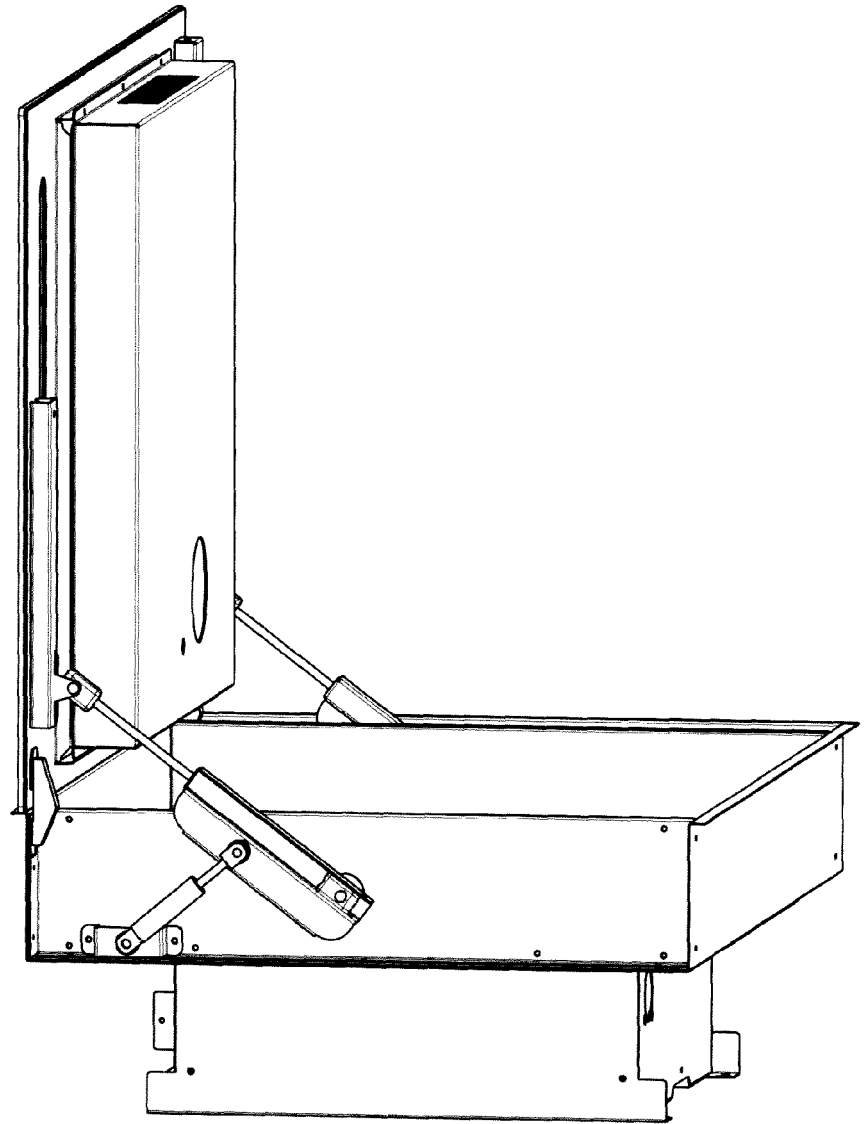
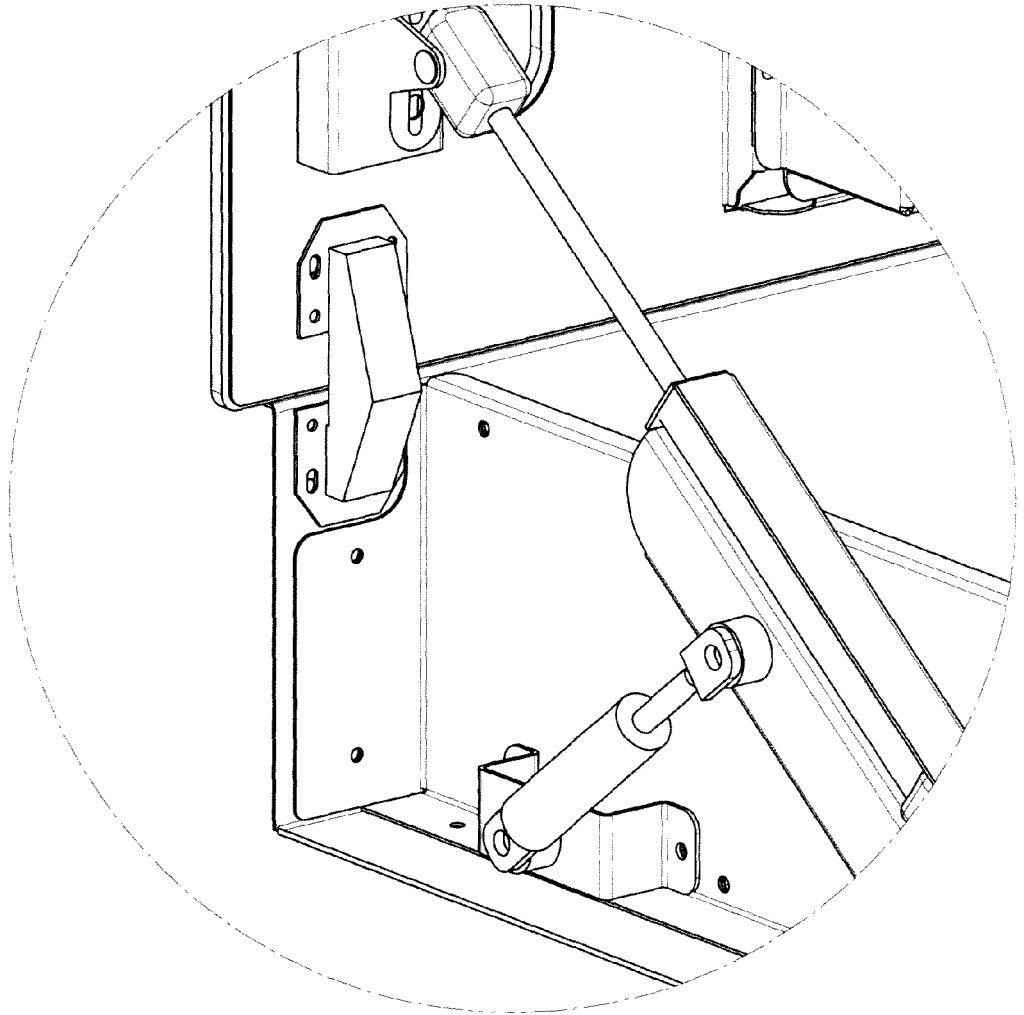


FIG 4.





EUROPEAN SEARCH REPORT

Application Number
EP 17 42 5039

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 2 397 775 A2 (EXKLUSIV HAUBEN GUTMANN GMBH [DE]) 21 December 2011 (2011-12-21) * paragraphs [0007], [0012], [0014]; figures *	1-6	INV. F24C15/20 F24C15/10
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			TECHNICAL FIELDS SEARCHED (IPC)
			F24C
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 September 2017	Examiner Verdoodt, Luk
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 17 42 5039

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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28-09-2017

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