

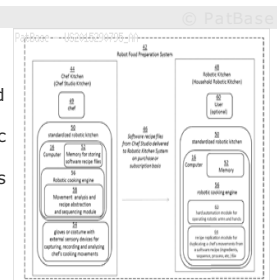
1) Family number: 60176686 (US2015290795A)

METHODS AND SYSTEMS FOR FOOD PREPARATION IN A ROBOTIC COOKING KITCHEN

Abstract: Source: US2015290795A The present disclosure is directed to methods, computer program products, and computer systems for instructing a robot to prepare a food dish by replacing the human chef's movements and actions. Monitoring a human chef is carried out in an instrumented application-specific setting, a standardized robotic kitchen in this instance, and involves using sensors and computers to watch, monitor, record and interpret the motions and actions of the human chef, in order to develop a robot-executable set of commands robust to variations and changes in the environment, capable of allowing a robotic or automated system in a robotic kitchen to prepare the same dish to the standards and quality as the dish prepared by the human chef.

Probable Assignee: MBL LTD

Earliest Publication Date: 20150827



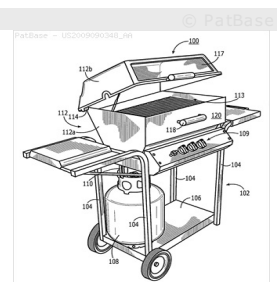
2) Family number: 43125457 (US2009090348A)

COOKING GRILL

Abstract: Source: US2009090348A The invention is a cooking grill comprising a housing defining a cooking chamber and having a side opening therein, a heating element disposed in the cooking chamber, a drawer slidably disposed in the side opening, the drawer having a bottom tray and a front wall sized and positioned so as to substantially fill the side opening in the housing when the drawer is inserted in the housing, a grilling module adapted to sit in the drawer having a support portion for supporting a grilling surface thereon, and a removable grilling surface, wherein the drawer is adapted to be inserted into the side opening in either a first orientation in which the bottom tray is below the heating element and the support portion is above the heating element or a second orientation rotated 180 degrees from the first orientation in which the bottom tray is above the heating element and the support portion is below the heating element.

Probable Assignee: AFC BUSINESS VENTURES LLC

Earliest Publication Date: 20090409



3) Family number: 43272188 (WO09062555A1)

COOKING DEVICE FOR BARBEQUE

Abstract: A cooking tray (102) for preparing food on a barbeque system (10) comprising a heat source and a wire grill (20) is described. The cooking tray (100) is adapted for being positioned on the wire grill (20) of the barbeque (10) when in operation. Furthermore, the cooking tray (100) has at least a base portion comprising a glass fibre based mesh or grating (102) for supporting food to be prepared on the barbeque system (10).

Probable Assignee: BERGEN JOHAN

Earliest Publication Date: 20090522

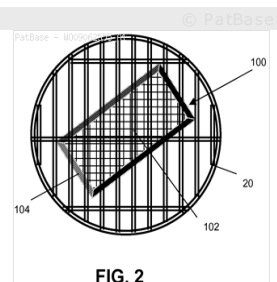


FIG. 2

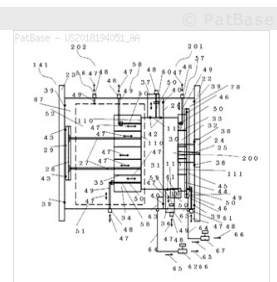
4) Family number: 66345609 (US2018194051A)

MOLD DEVICE, INJECTION MOLDING SYSTEM AND METHOD FOR MANUFACTURING MOLDED ARTICLE

Abstract: Source: US2018194051A [Problems] The objective of present invention is to provide the mold, injection molding system and method capable of limiting the outflow of pressurized fluid injected into a mold cavity. [Solution] A mold device and a molding device comprising: a shaft body 27 provided at least on one mold among a first mold 205 and a second mold 206 that form a molding space 200, the shaft body being used for pushing out a molded article formed from a resin injected into the molding space 200; a ring-shaped elastic member for supporting the shaft body 27 in which an opening formed along the circumferential direction is oriented toward the said molding space; and an injection portion provided on at least one mold among the first mold 205 and the second mold 206, the injection portion being used for injecting a pressurized fluid into the molding space 200.

Probable Assignee: SUZUKI YASUHIRO

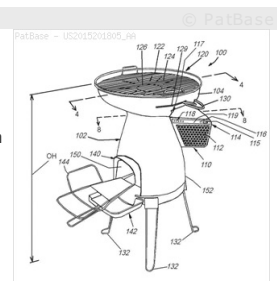
Earliest Publication Date: 20170713



5) Family number: 59878927 (US2015201805A)

PORTABLE COMBUSTION DEVICE UTILIZING THERMOELECTRICAL GENERATION

Abstract: Source: US2015201805A This invention provides a portable combustion device that provides a cleaner combustion, provides a more efficient overall combustion through the use of a fan that directs a predetermined volume of airflow over the combustible fuel-typically wood or similar cellulose-based biological solids and provides a cooking surface that is a grill top. The combustion device has a combustion chamber into which the fuel source is placed for combustion. Mounted to the side of the combustion chamber is a housing that encloses the TEG, which generates an electrical output, based on a difference in temperature on opposing sides. Mounted onto the TEG housing and protruding into the combustion chamber through a small passageway is a heat-conducting probe and heat-conducting probe base unit.



Probable Assignee: BIOLITE LLC

Earliest Publication Date: 20150723

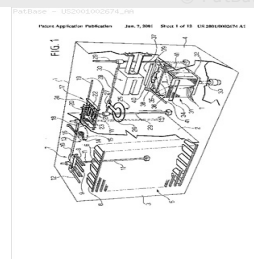
6) Family number: 28117592 (US2001002674A)

VENDING APPARATUS FOR DISPENSING HOT PIZZAS

Abstract: Source: US2001002674A A vending apparatus for dispensing pre-cooked pizzas (P) packaged inside corresponding sealed containers (E). The apparatus comprises a casing (1) containing a plurality of operating assemblies (7, 13, 17, 25, 31, 37) for picking up a pizza (P) from a refrigerated storage unit (5) and transferring it, after taking it out of its container (E), to an electric heating oven (30), and then to a delivery mouth (34), in a corresponding disposable tray (T).

Probable Assignee: TOP VENDING SRL

Earliest Publication Date: 20010603



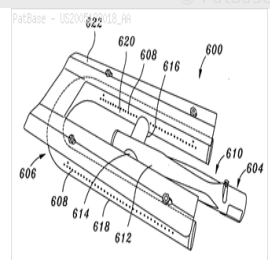
7) Family number: 32019174 (US2005133018A)

BARBEQUE GRILL COMPONENTS AND METHOD AND APPARATUS FOR CONSTRUCTING GRILL ISLAND STRUCTURE

Abstract: Source: US2005133018A A grill unit comprises a support structure comprising a plurality of connected individual modular units, at least one of which supports a cooking grill. Each modular unit comprises a frame, at least a portion of which is covered. The frames of the modular units include corresponding elements configured to be connected with fasteners, the support structure comprising a plurality of modular units connected in side-by-side relationship. Other embodiments of the invention comprise a method of constructing the modular units using a jig. The invention also comprises a plurality of grill components, including an improved handle, burner, burner lid, warming tray and rotisserie.

Probable Assignee: OUTDOOR KITCHEN CONCEPTS INC

Earliest Publication Date: 20050623



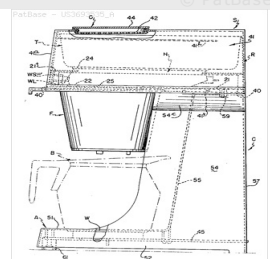
8) Family number: 1389453 (US3693535A)

POUR-IN, INSTANT BREWING ELECTRIC COFFEE MAKER

Abstract: Source: US3693535A In a pour-in, instant brewing type coffee maker, gravity flow of water, from a receiving tray bottom orifice to an electric resistance heated block of a unit heating the water as it passes to a brewing funnel discharging hot brewed coffee, is controlled by a float-varied orifice structure, and the tray overlies the block for tray water heating by water vapor latent heat; thus eliminating need of a large block mass or excessive heater wattage to provide requisite hot water temperature in an acceptable cycle time, and permitting a simple molded plastic housing design. Baffling in a block water flow top cavity conduces to efficient heat transfer and to reduction of steaming and of attendant noise.

Probable Assignee: MR COFFEE INC A CORP OF DE

Earliest Publication Date: 19720926



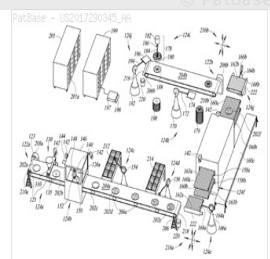
9) Family number: 67171587 (US2017290345A)

ON-DEMAND ROBOTIC FOOD ASSEMBLY AND RELATED SYSTEMS, DEVICES AND METHODS

Abstract: Source: US2017290345A An on-demand robotic food assembly line can include one or more conveyors and one or more robots, operable to assemble food items in response to received orders for food items, and one or more ovens operable to, for example, partially cook assembled food items. The on-demand robotic food assembly line can optionally package the assembled and partially cooked food items in packaging, and optionally load the packaged partially cooked food items into portable cooking units (e.g., ovens) that are optionally loaded into racks that are, in turn, optionally loaded into delivery vehicles, where the food items are individually cooked under controlled conditions while en route to consumer destinations, such the cooking of each food item is completed just prior to arrival at the consumer destination location. A dynamic fulfillment queue for control of assembly is maintained based at least in part on estimated transit time for orders.

Probable Assignee: ZUME PIZZA INC

Earliest Publication Date: 20171012



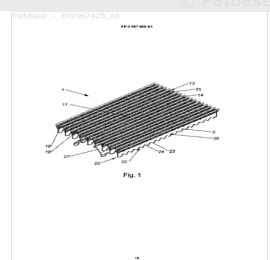
10) Family number: 42751969 (EP2067425A1)

GRATING

Abstract: The grid (1) has a bar element (16) to make a contact surface (11) for grill items in a plane and parallelly spaced at a distance. A dripping plate (2) is arranged on a side of the bar element lying opposite to the contact surface. The dripping plate has dripping regions (23) at free longitudinal edges (22). The dripping regions cause dripping of a fluid drained from the grill items during operation. The longitudinal edges of the dripping plate exhibit a recess between the dripping regions. The longitudinal edges are formed with a zig-zag-like, wave-like or periodic profile. An independent claim is also included for a grilling device comprising a grid and a burner.

Probable Assignee: GSCHWIND ERNST

Earliest Publication Date: 20081215



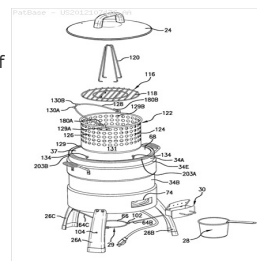
11) Family number: 51046145 (US2012107476A)

COOKING APPARATUS AND METHOD OF ASSEMBLY AND USING

Abstract: Source: US2012107476A Cooking apparatus having a shell structure with a reception cavity and a base bottom. The base bottom includes an essentially solid funnel wall extending down and in toward a lower fluid outlet. A leg support assembly is secured to the shell structure and a holder device is positioned within a reception cavity of the shell structure. The holder device has an upper portion secured to the shell structure and a lower catch support portion. The food holder defines a food reception recess and a food holder base bottom. The food holder base bottom has an essentially solid, sloped wall extending down and in from a lower end portion of said main body portion. The food holder is supported in a state of suspension by the catch device and is configured with a lower portion that extends below the lower catch support portion and above an underlying region of the shell base bottom. A heating device extends into heat transfer proximity to the food holder.

Probable Assignee: MASTERBUILT MFG INC

Earliest Publication Date: 20120503



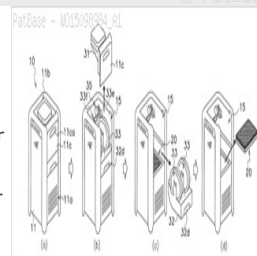
12) Family number: 59635662 (WO15098984A1)

AIR PURIFIER

Abstract: Provided is an air purifier configured so that air tightness within a casing is easily achieved by reducing the number of openings. An air purifier (10) is provided with an air purification filter (20), a humidification unit (30), a fan (blower fan)(12a), and a casing (11). The air purification filter removes dust contained in air. The humidification unit humidifies air by vaporizing supplied water. The blower fan supplies air to the air purification filter and the humidification unit. The casing houses the humidification unit, the air purification filter, and the blower fan. The casing has an opening (15) through which the humidification unit is mounted and removed. The humidification unit is disposed downstream of the air purification filter so as to be next thereto in the direction of removal of the air purification filter. The opening enable the air purification filter to be removed after the removal of the humidification unit.

Probable Assignee: DAIKIN IND

Earliest Publication Date: 20150702



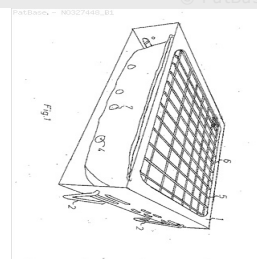
13) Family number: 38521860 (NO327448B)

FLERGANGSGRILL MULTIPLE TIME GRILL (MACHINE TRANSLATION)

Abstract: Source: NO327448B En transportabel flergangsgrill omfattende et hus (1) hvori det kan plasseres en grillkullkasset (4), hvor grillkullkassetten (4) kan snus rundt etter endt grilling og skyves inn i huset (1), og hvor huset (1) omfatter ben (2) som kan heve flergangsgrillen fra bakken, har den fordel at flergangsgrillen ikke kastes etter bruk, men transporteres bort fra bruksplassen og derved bidrar til a minske forsoepling pa uteplasser og friomrader. A portable reusable grill comprising a housing (1) in which it can place a charcoal cartridge (4), charcoal cartridge (4) can be turned around after grilling and pushed into the housing (1), and wherein the housing (1) comprises legs (2) that can raise disposable grill from the ground, has the advantage of reusable grill is not discarded after use but is transported away from the user space, thus contributing to a decrease forsoepling on patios and friomrader.

Probable Assignee: POLNOR AS

Earliest Publication Date: 20070814



14) Family number: 16645308 (DE8220985U1)

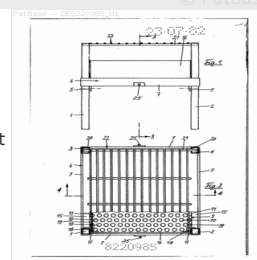
GRILL GRILL (MACHINE TRANSLATION)

Abstract: Source: DE8220985U1 (Claim 1) Gebrauchsmusteranmeldung Grill MM=== Ansprueche 1. Grill mit einer von Stuetzen getragenen Bodenwanne, einem mit Abstand darueber angeordneten Kohlegitter sowie einem mit Abstand ueber diesem vorgesehenen Grillrost, d ad u r c h g e k e n n z e i c h n e t, dass die Stuetzen (1-4; 43) mit der Bodenwanne (6; 40) loesbar verbunden sind und das Kohlegitter (9; 45) in die Bodenwanne (6; 40) eingesetzt ist und dass der Grillrost (22; 61) von den Stuetzen (1-4; 43) in deren oberen Bereich getragen ist.

Machine translation: (Claim 1) utility model application grill MM === claims 1 Grill with a worn by piece floor pan, one about it spaced charcoal grill and a by far over that provided cooking grate, d ad urchgekennzeichnet that the outriggers (1-4, 43) with the floor pan (6, 40) are releasably connected and the charcoal grill (9, 45) in the floor pan (6, 40) is used and that the grill grate (22, 61), is carried into the upper region of the supports (43 1-4).

Probable Assignee: PELTZER WERKE GMBH AND CO KG 5190 STOLBERG DE

Earliest Publication Date: 19821209



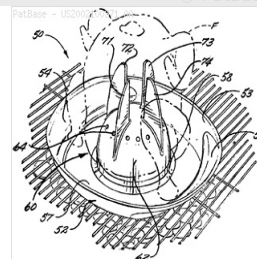
15) Family number: 28254421 (US2002100371A)

APPARATUS FOR COOKING MEAT AND METHODS OF COOKING SAME

Abstract: Source: US2002100371A An apparatus and methods for cooking meat are provided. The apparatus preferably includes a base having at least one liquid container connected to an upper surface of the base and a liquid collecting cavity formed in the upper surface of the base between outer walls of the liquid container and outer peripheries of the base. The apparatus also preferably includes at least one separate meat infusor positioned to contact the base and to overlie and substantially surround at least inner walls of the liquid container. The meat infusor preferably has an infusor body and a plurality of openings positioned in side peripheries of the infusor body so that when liquid positioned in the liquid container heats, steam from the liquid travels through the infusor body, through the openings therein, and toward meat positioned to overlie the infusor body.

Probable Assignee: INNOVATIVE CULINARY CONCEPTS LLC

Earliest Publication Date: 20020801



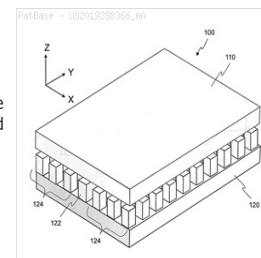
16) Family number: 70046631 (US2019288366A)

WAVEGUIDE DEVICE MODULE AND MICROWAVE MODULE

Abstract: Source: US2019288366A A waveguide device module includes a waveguide created between an electrically conductive member and a waveguide member. The waveguide member includes a stem and branches extending from an end of the stem, including a first branch and a second branch. A first/second conductor line is connected to a first/second position on the first/second branch. The waveguide includes a first/second waveguide from the end of the stem to the first/second position. The first and second waveguides are formed so that, when the first and second conductor lines are respectively connected to two terminals of a microwave IC and first and second electromagnetic waves of a same frequency and mutually opposite phases propagate respectively through the first and second waveguides, a difference between a phase variation of the first electromagnetic wave and a phase variation of the second electromagnetic wave is within plus or minus 90 degrees of an odd multiple of 180 degrees.

Probable Assignee: NIDEC CORP

Earliest Publication Date: 20180612



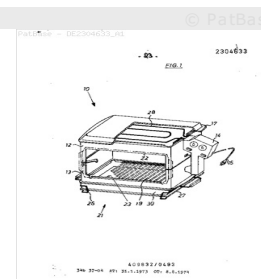
17) Family number: 17091667 (DE2304633A1)

ELEKTRO-GRILLGERAET ELECTRICAL GRILL EQUIPMENT (MACHINE TRANSLATION)

Abstract: Source: DE2304633A1 (Claim 1) 1. Patentansprueche: 1Elektro-Grillgeraet mit einem den Grillspieß lagernden Grill rahmen, der oben und unten von einer Schale aus feuerfestem Glas abgedeckt ist, und der aussen ein an einen Grillheizkoerper angeschlossenes Steuergeraet mit Bedienungs- und Signalelementen sowie mit einem Grillspiessantrieb traegt, d a d u r c h g e k e n n z e i c h n e t, dass das Steuergeraet (14,14') und der Grillheizkoerper (28) eine von den anderen Geraetebauteilen separate, alle Elektroteile enthaltende Geraeteeinheit bilden, die vom Grillrahmen (12,13,57) durch Abheben bzw. Ausrasten trenn bar getragen ist. (Claim 1) 1. Patent claims: 1Elektro-Grillgeraet with a grill storing the Grillspieß frame, which is taken off above and down by a bowl from fireproof glass, and which outside a controller with operating and signal elements as well as with a Grillspiessantrieb, attached to a grill heating element, carries, D A D u r c h g e k e n n z e i c h n e t that the controller (14.14') and the grill heating element (28) form from the other tool-making parts a separate, unit containing all electrical parts, which from the grill framework (12,13,57) by taking off and/or releasing separate is bar carried.

Probable Assignee: UNIGRIVERSA MESSENEUHEITEN

Earliest Publication Date: 19721012



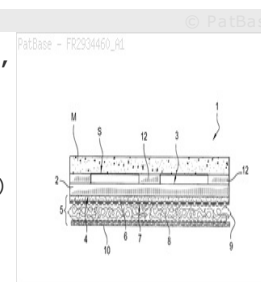
18) Family number: 44335626 (FR2934460A)

PLANT CULTIVATING STRUCTURE FOR COVERING AND DECORATING E.G. FRONTAGE OF BUILDING, HAS SUPPORT PANEL WITH FRONT SURFACE COVERED BY SUBSTRATE, WHERE SUBSTRATE IS FORMED BY SUPERIMPOSITION OF INTERNAL AND EXTERNAL LAYERS COVERED WITH GRIDS

Abstract: The structure (1) has a flat plastic support panel (2) comprising a front surface (4) extended vertically and opposite to a vertical surface (5) to be covered. The surface is covered by a cultivation substrate, where the substrate is formed by superimposition of an internal hydrophilic, geotextile, rot-proof and horticultural felt layer (6) and an external moss layer (8). The internal and external layers are covered with maintaining grids (7, 9).

Probable Assignee: URBAN GARDEN

Earliest Publication Date: 20100205



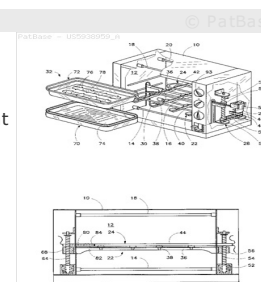
19) Family number: 11675452 (US5938959A)

OVEN WITH AUTOMATICALLY MOVABLE SHELF

Abstract: Source: US5938959A A domestic oven includes a housing defining a cooking chamber, at least one stationary first heating element in the chamber, a shelf movably disposed in the chamber, a second heating element mounted to the shelf, and a drive operatively connected to the shelf for translating the shelf, together with the second heating element, in the housing. The shelf is made of heat conductive metal. A temperature sensor in heat conductive contact with the shelf senses the temperature of the shelf and of a metal tray or pan placed on the shelf in heat conductive contact therewith. The temperature sensor is operatively connected to an energization circuit for the second heating element for de-energizing the second heating element upon detecting a sudden rise in temperature. The second heating element is mounted to the shelf via insulating spacers. The oven is used to perform a hybrid steaming and baking method.

Probable Assignee: TEST RITE INT

Earliest Publication Date: 19990817



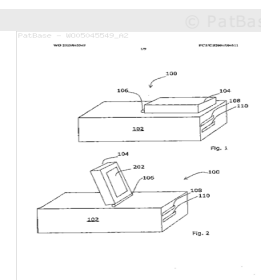
20) Family number: 30175764 (WO05045549A2)

COMPUTER SYSTEM AND METHODS OF USING SUCH SYSTEM

Abstract: A processing unit (100) comprising, a case (102) to contain components of the processing unit (100) and a removable cover (102a) allowing a user to gain access to the interior of the case (102), the interior of the case (102) being provided with a movable tray (308) and the components (312, 314, 316, 318, 320, 322, 323) being arranged such that some components (312, 314, 316, 318) are mounted in the tray (308) and other components (312, 314, 316, 318) are mounted such that movement of the tray (308) together with the components (312, 314, 316, 318) mounted thereon provides access to the other components (320, 322, 323).

Probable Assignee: MOVIT SYSTEMS LTD

Earliest Publication Date: 20050511



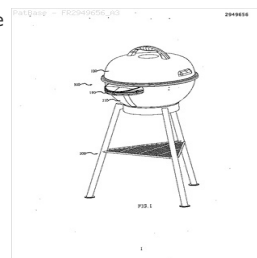
21) Family number: 45879840 (FR2949656B)

DISPOSITIF POUR GRILLADE AVEC FONCTION DE CONVECTION D'AIR CHAUD

Abstract: The toaster has toasting net which arranged in furnace body, while heating unit is arranged in the furnace body and under the toasting net. A convection blade set is arranged in furnace body and under the toasting net, while fan unit is provided with rotating convection blade set forming convection in the furnace body for homogenizing the temperature of toasting net.

Probable Assignee: ZHENGZHOU CANKUN INDUSTRY CO LTD

Earliest Publication Date: 20100630



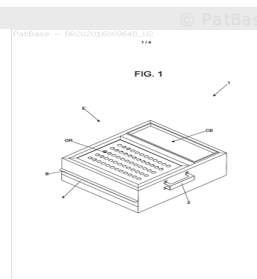
22) Family number: 68794814 (BR202016009648U)

DISPOSICAO APLICADA EM CHURRASQUEIRA DE FOGAO COOKTOP GRILL ARRANGEMENT APPLIED IN (MACHINE TRANSLATION)

Abstract: Source: BR202016009648U RESUMO DISPOSICAO APLICADA EM CHURRASQUEIRA DE FOGAO. Refere-se a uma churrasqueira de fogao (1), desenvolvida para ser utilizada em residencias e apartamentos, com o proposito de facilitar e suprir a necessidade dos apreciadores de churrasco que nao tem espaco em suas residencias e/ou apartamento e precisam recorrer a churrasqueiras de custo elevado ou que provocam fumaceira, gerando incomodo pra si mesmos e para os vizinhos. Peticao 870160016510, de 29/04/2016, pag. 14/21 Cooktop GRILL ARRANGEMENT APPLIED IN summary. Relates to a cooktop grill (1), designed to be used in homes and apartments, with the purpose of facilitating and supplying the need of barbecue lovers that does not have space in their residences and/or apartment and need to resort to expensive grills or cause fumaceira, generating cumbersome for themselves and for their neighbors. The 870160016510 repeat 04/29/2016, pp. It

Probable Assignee: RODRIGO JOBS CONTIN

Earliest Publication Date: 20171107



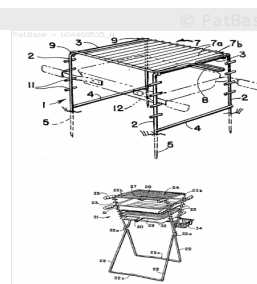
23) Family number: 4599706 (US4488535A)

PORTABLE COOKING GRILL

Abstract: Source: US4488535A It is an object of the present invention to provide a portable cooking grill of the kind intended for use outdoor charcoal cooking. In one embodiment, the grill according to the invention may be relatively small and easily carried on camping hikes. In another embodiment, the grill of the invention is completely collapsible but is useful as a large multipurpose apparatus for use in charcoal cooking for a large number of people. The invention provides adjustable features, including at least one grill unit and/or a cooking pan which can be handled while hot but very safely. Moreover, the supporting frame of the grill and the added cooking members such as grill units, pans or the like are structured to permit these added members to be placed in horizontal or inclined positions and at preselected levels above the ground. Yet another object of the invention is to provide adjusting means including handle bars attached to the cooking pan so that it can be easily repositioned or removed from the grill frame in a safe and secure manner.

Probable Assignee: JOHNSON RICHARD J

Earliest Publication Date: 19841218



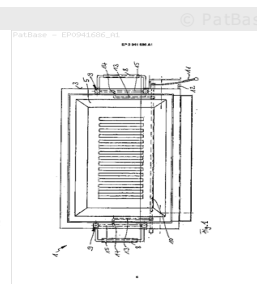
24) Family number: 16955857 (EP0941686A1)

GRILL

Abstract: The barbecue has a frame with a removable tray (5), in which charcoal, etc., is placed. A height adjustable grating is positioned above the grill frame, for supporting the food. The grating height adjustment mechanism consists of vertical lifting parts (9), arranged on opposite sides of the grill frame. Each lifting element is connected to a single rotatable axle (10) mounted in the grill frame by a gearing system. A handle (11) arranged outside the grill frame for operating the axle is connected to the rotation axle by a non-rotating link. Rotating the handle causes the axle to rotate through the same angle, causing a lever (13) to rotate. A bent endpiece (14) at the free end of this lever then moves in a horizontal guide (15) of each lifting part, to lift or lower the lifting part and the grating.

Probable Assignee: MLADEN SIMUNEC

Earliest Publication Date: 19980625



25) Family number: 77052646 (RU2018122585A)

A SYSTEM FOR COLLECTING AND REMOVING WATER AND MOISTURE FROM THE ROADWAY BRIDGES, DRAINAGE TRAY AND RAINWATER DRAINAGE TRAY FOR IT (MACHINE TRANSLATION)

Abstract: Source: RU2018122585A [Source: Claim 1] 1. A system for collecting and removing water and moisture from the roadway bridges comprising stacked together at the ends of the metal trays with a central inner overflow channel and removable water intake grille, placed on the outer side of the tray, characterized in that the system is formed by alternating between a plenum trays with a hollow outer surface and water intake plenum trays, provided with water intake bars placed in holes formed on the outer side of the rainwater drainage trays, wherein the outer side of each tray and rainwater heads gratings are formed with a concave surface and form a single external vodootvodyashchee. 2. The system of claim. 1, characterized in that it is provided with an additional water intake drainage channel with the perforated outer side wall for discharging water from the interior of the roadway, disposed at least in one of the lateral sides of the central a drainage channel. 3. The system of claim. 2, characterized in that the outer side wall of the additional water intake duct plenum is provided with perforations in the form of vertical slots to the bottom of the channel. 4. The system of claim. 1, characterized in that at least in the bottom of one of the rainwater drainage trays IS vodootvodyashchee hole connected with a drain pipe. 5. The system of claim. 4, characterized in that it is provided with an additional water intake drainage channel with the perforated outer side wall for discharging water from the interior of the roadway, disposed at least in one of the lateral sides of the central a drainage channel, and in the bottom of the additional water intake duct plenum is a hole connected to a channel with a hole formed in the side wall of the discharge pipe. 6. The system of claim. 1, characterized in that the outer sides of the drainage trays and rainwater drainage trays are supported on a longitudinal central vertical support wall. 7. The system of claim. 6, characterized in that the vertical supporting wall is formed in at least one opening, such that the open side of the lower edge of the supporting wall. 8. The system of claim. 1, characterized in that the concave outer surface of the trays and lattices is formed by or facing each other two flat surfaces, or in cross-section has a trapezoidal profile, or a profile formed along the radius or a smooth curved profile. 9. The system of claim. 1, characterized in that in extreme drainage tray is formed with a closed outer end. 10. The system of claim. 1, characterized in that the water intake grille mounted in the holes of the rainwater drainage trays to the reference corners. 11. The system of claim. 10, characterized in that a water intake bars installed filtration of the grid. 12. The system of claim. 1, characterized in that it is provided with a water intake bars, filters, installed in the holes on the bottom of the drainage of rainwater trays and which have a honeycomb structure of longitudinal and transverse ribs, wherein the ribs gratings filters are made drain holes, at least part of which in transverse edges from the open bottom trays. 13. The system of claim. 1, characterized in that it is provided with a water intake bars, filters, installed in the holes on the bottom of the drainage of rainwater trays and which have a honeycomb structure of longitudinal and transverse ribs, the longitudinal ribs and rest on the bottom of the pan, and the cross - are spaced from the bottom by a distance of not less than 2 mm. 14. Drainage tray for the removal of water is made of metal and having a central drainage channel, characterized in that the outer side of the plenum of the tray blank has a concave surface and forms an external vodootvodyashchee. 15. Drainage tray according to claim. 14, characterized in that its outer side rests on a longitudinal central vertical support wall. 16. Drainage tray according to claim. 15, characterized in that the vertical supporting wall is formed in at least one opening, such that the open side of the lower edge of the supporting wall. 17. Drainage tray according to claim. 14, characterized in that the concave outer surface of the tray is formed or facing each other two flat surfaces, or in cross-section has a trapezoidal profile, or has a profile formed by a radius or a smooth curved profile. 18. Drainage tray according to claim. 14, characterized in that one of its ends is made hollow. 19. Drainage tray according to claim. 14, characterized in that it is provided with an additional water intake drainage channel with perforations of the outer side wall, disposed at least in one of the side of the center of a drainage channel. 20. Drainage tray according to claim. 19, characterized in that the outer side wall of the additional water intake duct plenum is provided with perforations in the form of vertical slots to the bottom of the channel. 21. Rainwater drainage tray for the removal of water is made of metal and having a central drainage channel, and water intake grill placed in hole formed on the outer side of the water intake plenum tray characterized in that the outer sides of the tray, and grating formed with a concave surface and form a single external vodootvodyashchee. 22. Rainwater drainage tray according to claim. 21, characterized in that it is provided with an additional water intake drainage channel with perforations of the outer side wall, disposed at least in one of the side of the central duct plenum. 23. Rainwater drainage tray according to claim. 22, characterized in that the outer side wall of the additional water intake duct plenum is provided with perforations in the form of vertical slots to the bottom of the channel. 24. Rainwater drainage tray according to claim. 21, characterized in that as its bottom is vodootvodyashchee hole connected with a drain pipe. 25. Rainwater drainage tray according to claim. 24, characterized in that it is provided with an additional water intake drainage channel with perforations of the outer side wall, disposed at least in one of the side of the central drainage channel, and in the bottom of the additional water intake duct plenum is a hole connected to a channel with a hole formed in the side wall of the discharge pipe. 26. Rainwater drainage tray according to claim. 21, characterized in that its outer side rests on a longitudinal central vertical support wall. 27. Rainwater drainage tray according to claim. 26, characterized in that the vertical supporting wall is formed in at least one opening, such that the open side of the lower edge of the supporting wall. 28. Rainwater drainage tray according to claim. 21, characterized in that the concave outer surface of the tray and the grating is formed or facing each other two flat surfaces, or in cross-section has a trapezoidal profile, or a profile formed along the radius or a smooth curved profile. 29. Rainwater drainage tray according to claim. 21, characterized in that one of its ends is made hollow. 30. Rainwater drainage tray according to claim. 21, characterized in that the rainwater grid is inserted in the hole of the water intake plenum of the tray to the support corners. 31. Rainwater drainage tray according to claim. 30, characterized in that a water intake grille mounted filter mesh. 32. Rainwater drainage tray according to claim. 21, characterized in that it is provided with a water intake grating filter, installed in the hole of the water intake plenum tray on its bottom, and which has a honeycomb structure of longitudinal and transverse ribs, wherein the ribs lattice-filter made drainage holes, at least part of which in the transverse edges of the open side of the tray bottom. 33. Rainwater drainage tray according to claim. 21, characterized in that it is provided with a water intake grating filter, installed in the hole of the water intake plenum tray on its bottom, and which has a honeycomb structure of longitudinal and transverse ribs, the longitudinal ribs and rest on the bottom of the pan, and the cross - are spaced from the bottom by a distance of not less than 2 mm.

Probable Assignee: FRANCO MAXIM OLEGOVICH

Earliest Publication Date: 20191219

26) Family number: 54272033 (DE202012100590U1)

GRILLGERAET

Abstract: Source: DE202012100590U1 Grillgeraet mit einer von einem Gestell (2) gehaltenen Brennerkammer (4) und einem oberhalb der Brennerkammer (4) befindlichen Rost (5), an welches Gestell (2) an zumindest einer Seite eine Ablage (6, 6.1) angeschlossen ist, dadurch gekennzeichnet, dass die Ablage (6, 6.1) schwenkbar an seitlich von dem Gestell (2) abragende Lagerfortsaetzen (12, 12.1) angeschlossen ist und gegenueber den Lagerfortsaetzen (12, 12.1) aus einer eine Schwenkbewegung zum Abklappen der Ablage (6, 6.1) blockierenden Ablagestellung in eine eine Schwenkbewegung gestattende Stellung zum Abklappen der Ablage (6, 6.1) in eine Abklappstellung, in der die Ebene der Ablage (6, 6.1) vertikal oder annaehernd vertikal ausgerichtet ist, verschiebbar ist. Is connected located Grillgeraet held with one of a frame (2), combustion chamber (4) and above the combustion chamber (4), grating (5), to which frame (2) on at least one side of a shelf (6, 6.1) characterized in that the tray (6, 6.1) is pivotally projecting to the side of the frame (2) Lagerfortsaetzen (12, 12.1) is connected and opposite to Lagerfortsaetzen (12, 12.1) consists of a pivotal movement for folding of the tray (6, 6.1) blocking storage position in a pivotal movement gestattende position to the folding of the tray (6, 6.1) is displaceable into a folded-down position in which the plane of the shelf (6, 6.1) is vertically or substantially vertically oriented.

Probable Assignee: ENDERS COLSMAN AG

Earliest Publication Date: 20130718

27) Family number: 30690036 (US2004123857A)

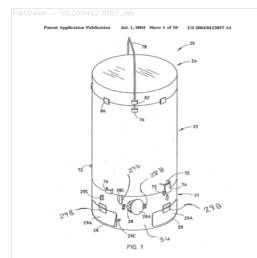
OUTDOOR COOKING SYSTEM



Abstract: Source: US2004123857A An outdoor cooking apparatus includes a base heating unit and at least one cooking chamber adapted to interlockingly engage the heating unit so that the heating unit and cooking chamber can be carried separately or as a unit. The base heating unit includes a housing adapted to support burning charcoal, and at least one air opening above and below the support, respectively, that are closeable to control air flow. Several different cooking chambers are provided that nest against the heating unit and/or nest into each other and/or stack on each other. The heating unit includes a funnel to direct food grease to a collection place, and a seasoning pan that both shields the funnel from heat and that holds seasoning for flavoring food being cooked.

Probable Assignee: VIRALDO JOHN E

Earliest Publication Date: 20040701



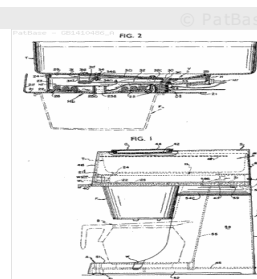
28) Family number: 3886819 (GB1410486A)

BEVERAGE BREWING APPARATUS

Abstract: Source: GB1410486A 1410486 Coffee infusing NORTH AMERICAN SYSTEMS Inc 26 Sept 1972 12019/75 Divided out of 1410484 Heading A4E [Also in Division F4] In a beverage brewing apparatus an electrical water heating unit H (Division F3-4) is provided with a water inlet 30 and a water discharge 25a (Fig.2) and a water reservoir tray T having an outlet for allowing water to be fed gravitationally to the water inlet 30. The housing structure of the apparatus includes a pedestal element consisting of a horizontally extending base portion A and a vertically extending hollow column portion C, the base portion A having a beaker warmer plate W. The apparatus is provided with a separate hollow hood 41 for enclosing the heating unit H and the reservoir tray T, the hood 41 having a rear bottom portion engaged and secured on the top end of the column portion C and a front portion extending forwardly over a front portion of the base, the hood portion being provided on its bottom surface with a support for supporting a brewing funnel F beneath the water discharge of the heating unit and over the warmer plate W, the hood top having a filling opening D to allow water to be poured into the reservoir tray T. The operation of the water heating unit is as disclosed in Specification 1410484.

Probable Assignee: NORTH AMERICAN SYSTEMS

Earliest Publication Date: 19751015



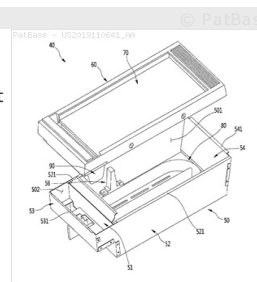
29) Family number: 74023119 (US2019110641A)

COOKING APPARATUS

Abstract: Source: US2019110641A Provided is a cooking apparatus in which a heating plate, a frame, and a pocket part are independently provided and which has a structure that is capable of securing use convenience and safety by a coupled structure of the heating plate, the frame, and the pocket part.

Probable Assignee: LG ELECTRONICS

Earliest Publication Date: 20190418



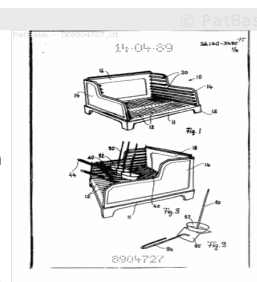
30) Family number: 17618638 (DE8904727U1)

Abstract: Source: DE8904727U1 (Claim 1) 1. Kastenfoermige Grillvorrichtung, bestehend aus einem Grillboden, zwei Seiten- waenden und einer geschlossenen Rueckwand, wobei alle Teile aus Gusseisen und/oder Stahlblech hergestellt sind, d g e k e n n z e i c h n e t, - dass der Grillboden als in einem Abstand ueber der Standflaeche angeordneter Schlitzrost (11) ausgebildet ist, - dass die Seitenwaende (14) ueber die ganze Hoehe der Innenseite mit einer Vielzahl ! von Fuehrungsrippen (20) versehen sind. die poarallel zum Schlitzrost in einem Abstand von 4 cm bis 8 cm von vorn nach hinten verlaufen, - und dass die Seitenwaende (14) im vorderen Bereich niedriger als im hinteren Bereich sind, wobei der hintere Bereich maximal auf die doppelte Hoehe des vorderen Bereichs ansteigt.

Machine translation: (Claim 1) 1 Box-griller consisting dgekennzeichnet from a grill floor, two side walls and a closed back wall, with all parts made of cast iron and / or steel are made, - that the grill bottom than at a distance over the Standflaeche arranged Schlitzrost (11) formed - that the side walls (14) over the entire height of the inside with a variety! Fuehrungsrippen of (20) are provided. the poarallel pass to the slot grid at a distance of 4 inches to 8 inches from front to back - and that the side walls (14) in the front lower than in the rear area, wherein the rear portion rises to a maximum of twice the height of the front portion.

Probable Assignee: SCHIESSL MATTHIAS 8000 MUENCHEN DE

Earliest Publication Date: 19890803



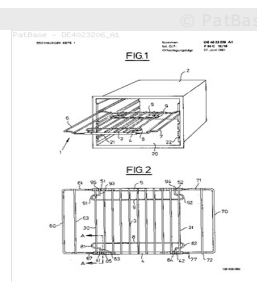
31) Family number: 29536600 (DE4023206A1)

ROAST OR GRILLE GRATE FOR COOKING OVEN - HAS STIRRUPS AT EITHER SIDE WITH LEGS TO TELESCOPE INSIDE PARALLEL REAR AND FRONT SLEEVES

Abstract: The extensible roast, or grill grate is guided in slotted ducts in the oven side walls, and has a support rack (3) coupled at either side to bracket slidable in the ducts. The support rack is fitted between several tubes (4, 5) with open end sides, into which are slidably inserted parallel chambers of the brackets (6, 7) in the longitudinal direction of the rack tubes. ADVANTAGE - Compact design for versatile use.

Probable Assignee: ZENKER GMBH AND CO KG METALLWARE

Earliest Publication Date: 19900405



32) Family number: 67177289 (WO17174137A1)

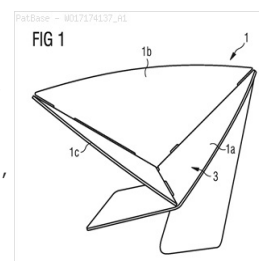
MODULAR POT, IN PARTICULAR FIRE POT OR DECO POT, AND ASSEMBLY KIT FOR ASSEMBLING

SUCH A MODULAR POT

Abstract: The underlying invention in particular is directed to a modular pot (1, 2) comprising at least three partitions (1a, 1b, 1c) inter-connectable with each other by slide-locking connections, wherein the partitions (1a, 1b, 1c) are planar in shape and have substantially the same basic shape, each partition (1a, 1b, 1c) comprising a slide-locking male interface having one or more male hook-laps, and a slide-locking female interface having one or more counterpart female locking slots for locking hook-laps therein in a slide-to-lock movement, wherein with each partition (1a, 1b, 1c), the one or more hook-laps of the male interface arranged along a respective first locking axis, and the one or more slots of each female interface arranged along a respective second locking axis, such that the first and second locking axis of each partition (1a, 1b, 1c) have one common point of intersection, and wherein hook-openings of the hook-laps of the male interface of one of the partitions (1c) are oriented towards the associated point of intersection, whereas hook-openings of the hook-laps of the male interface of the other partitions (1a, 1b) are oriented away from their associated point of intersection.

Probable Assignee: HUSQVARNA AB

Earliest Publication Date: 20171012



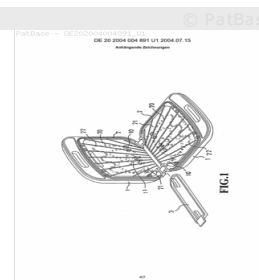
33) Family number: 30723902 (DE202004004891U1)

ELECTRIC BARBECUE GRILL, COMPRISING TWO IDENTICAL SHELLS JOINED WITH HINGES AND FITTED WITH GREASE RECEPTACLE

Abstract: Source: DE202004004891U1 Two shallow rectangular shells (1) are joined with hinges along their rear edges and provided with longitudinal openings close their front edges serving as carrying handles. A heating element (20) is accommodated at the bottom of each of the shells (1) behind a cover serving as the grill tray (2) and provided with several elevated ribs (22). The grease dripping from the meat to be grilled is guided through the space underneath the steak or chop to a receptacle (3) positioned at the front of the device.

Probable Assignee: TSENG CHUNG TING

Earliest Publication Date: 20040609



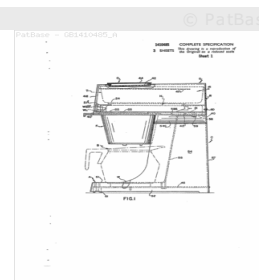
34) Family number: 3886818 (GB1410485A)

WATER HEATING APPARATUS

Abstract: Source: GB1410485A 1410485 Water heaters NORTH AMERICAN SYSTEMS Inc 26 Sept 1972 12018/75 Divided out of 1410484 Heading F4A The invention relates to an apparatus for heating water described in Specification 1,410,484, and the claims are directed to valveoperating details of the apparatus.

Probable Assignee: NORTH AMERICAN SYSTEMS

Earliest Publication Date: 19751015



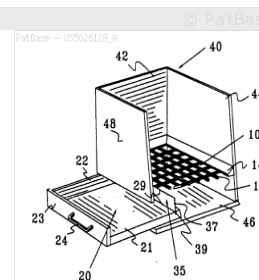
35) Family number: 4647247 (US5026128A)

TOY BOX WITH SMALL PART SIFTER

Abstract: Source: US5026128A An improved Toy Box comprised of a container in which to store toys with a grill structured subfloor that permits small toys to fall through to a drawer below while hodling larger toys above.

Probable Assignee: GROETZINGER CHARLES R

Earliest Publication Date: 19910625



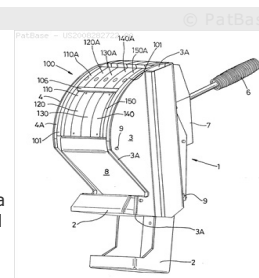
36) Family number: 32568074 (US2008282722A)

METHODS AND APPARATUS FOR DISPENSING BEVERAGES

Abstract: Source: US2008282722A The present invention provides an apparatus for dispensing a beverage, the beverage comprising a liquid-beverage portion and a frozen-beverage portion. The apparatus comprises means for dispensing into a receptacle the liquid beverage portion, means (102) for freezing a portion of beverage so as to provide the frozen beverage portion and means (104, 104' for dispensing the frozen-beverage portion into the receptacle. The present apparatus also provides a method for dispensing a frozen beverage portion by providing one or more cooling chambers (102) cooled by cooling means, supplying at least one of the cooling chambers with a portion of beverage, freezing the portion of beverage to provide at least one beverage frozen-beverage portion and ejecting one frozen beverage portion from its cooling chamber.

Probable Assignee: SCOTTISH AND NEWCASTLE PLC

Earliest Publication Date: 20070510



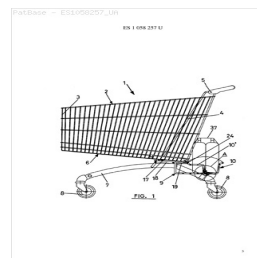
37) Family number: 34675506 (ES1058257Y)

CARRILLO DE COMPRA CON BANDEJA AUXILIAR EXTERNA.

Abstract: Source: ES1058257U 1. Carrillo de compra con bandeja auxiliar externa, que comprende un cesto para mercancías, a base de varillas metálicas, de planta ligeramente trapecial, que va montado sobre un chasis dotado de ruedas y que dispone, a continuacion de la pared transversal mayor, de una bandeja auxiliar externa que puede ocupar posiciones de uso y no uso, caracterizado porque la bandeja citada esta constituida por una lamina de material flexible que presenta al menos dos bordes opuestos rectos y paralelos, a traves de uno de los cuales dicha lamina se fija exteriormente al fondo del cesto, segun una linea paralela y proxima al borde posterior de dicho fondo, mientras que por el borde opuesto va suspendida de la rama central de un cerco en C que va articulado por el extremo de sus ramas laterales a sendos soportes, cada uno de ellos fijado a una de las paredes longitudinales del cesto, en posicion adyacente a la pared posterior del mismo, definiendo las articulaciones citadas del cerco un eje paralelo al borde posterior del fondo del cesto, sobre el que puede bascular dicho cerco entre una posicion elevada, en la cual la lamina flexible queda extendida para definir la bandeja auxiliar, y una posicion abatida en la que dicha lamina queda plegada. 1. External trolley cart with auxiliary tray, comprising a basket for goods, made of metal rods, slightly trapezoidal plant, which is mounted on a chassis equipped with wheels and which has, below the transverse wall, an auxiliary tray that can occupy positions of use and non-use, characterized in that said tray is constituted by a sheet of flexible material which has at least two opposite edges straight and parallel, through one of which said sheet is fixed externally to the bottom of the basket, according to a line parallel and close to the rear edge of said bottom, while the opposite edge is suspended from the central branch of a Fence in C that is articulated by the end of its side branches to respective supports, each attached to one of the longitudinal walls of the basket, adjacent the rear wall thereof, said joints of the fence defining an axis parallel to the rear edge of the bottom of the basket, on which can pivot the fence between a raised position, in which the flexible sheet is extended to define the auxiliary tray, and a lowered position in which said sheet is folded.

Probable Assignee: KIDER S A

Earliest Publication Date: 20041116



38) Family number: 425212 (US3491743A)

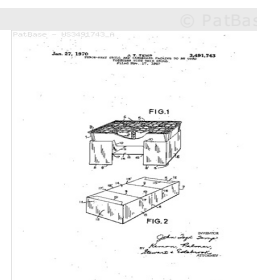
THROW-AWAY GRILL AND CARDBOARD PACKING TO BE USED TOGETHER WITH THIS GRILL

Abstract: Source: US3491743A ABSTRACT OF THE DISCLOSURE

A throw-away grill with a space containing charcoal and igniting material, the space being upwardly limited by a grating made of metal and in all other directions by a tray of metal foil coated on the inside with heat insulating material, the grating being secured to the edges of this tray. The grill is used together with a cardboard packing which can be transformed into a support for the grill.

Probable Assignee: TEMP J

Earliest Publication Date: 19680531



39) Family number: 44965478 (ES1071979U)

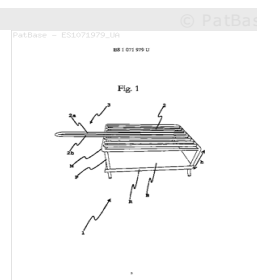
PARRILLA GRILL (MACHINE TRANSLATION)

Abstract: Source: ES1071979U 1. Parrilla (1), que comprende una pluralidad de barras metálicas paralelas (2) para el soporte de los alimentos, de las cuales dos (2a, 2b) se extienden y se unen por uno de los lados de la parrilla para configurar un mango (3), y cuatro patas (P) en las esquinas, caracterizada por el hecho de que comprende una bandeja (B) provista de un reborde perimetral (R) encajada por sus esquinas en las patas (P), estando la altura (h) entre la bandeja (B) y las barras (2) comprendida entre 5 y 10 cm. 2. Parrilla (1) segun la reivindicacion anterior, en el que la altura (h) esta comprendida entre 6 y 8 cm. 3. Parrilla (1) segun cualquiera de las reivindicaciones anteriores, en la que las dimensiones en planta estan comprendidas entre 18 y 24 cm. 4. Parrilla (1) segun cualquiera de las reivindicaciones anteriores, en la que todos sus componentes son de material inoxidable. 5. Parrilla (1) segun cualquiera de las reivindicaciones anteriores, en la que la bandeja (B) comprende cuatro orificios en sus esquinas para su encaje en las patas (P). 6. Parrilla (1) segun la reivindicacion anterior, en la que los extremos de las patas estan dobladas entre 45 degrees y 180 degrees para su bloqueo en altura respecto a las patas. 7. Parrilla (1) segun cualquiera de las reivindicaciones anteriores, cuya estructura comprende un marco metalico (M) rectangular sobre el cual estan soldadas las barras (2), y en cuyas esquinas estan soldadas las patas (P) que se extienden hacia abajo. 8. Parrilla (1) segun cualquiera de las reivindicaciones anteriores, que comprende una plancha para asar de dimensiones similares a las parrillas de varilla de acero, estando provista la plancha de pequenas pestanas en la parte inferior que sirven de apoyo sobre las barras.

Machine translation: 1. Grill (1), comprising a plurality of parallel metal rods (2) for supporting food, of which two (2a, 2b) are extended and connected by one side of the grid to set a handle (3), and four legs (P) in the corners, characterized in that it comprises a tray (B) provided with a peripheral rim (R) embedded at its corners to the legs (P), being the height (h) between the tray (B) and bars (2) between 5 and 10 cm. 2. Grill (1) according to the preceding claim, wherein the height (h) is between 6 and 8 cm. 3. Grill (1) according to any of the preceding claims, wherein the plan dimensions are between 18 and 24 cm. 4. Grill (1) according to any of the preceding claims, in which all components are made of steel. 5. Grill (1) according to any of the preceding claims, wherein the tray (B) comprises four corners orificies for engagement in the legs (P). 6. Grill (1) according to the preceding claim, wherein the ends of the legs are bent between 45 degrees and 180 degrees for locking in height in relation to the legs. 7. Grill (1) according to any of the preceding claims, whose structure comprises a metal frame (M) on which the rectangular bars are welded (2), and whose corners are welded legs (P) extending downwards. 8. Grill (1) according to any of the preceding claims, comprising a grill pan of similar dimensions to the steel rod grills, plate being provided with small tabs at the bottom that support the bars.

Probable Assignee: GALLEGO PARRA ANDRES

Earliest Publication Date: 20100503

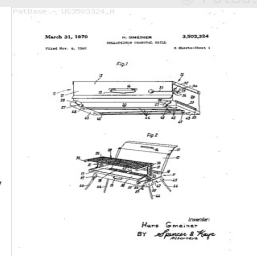


40) Family number: 21809756 (US3503324A)

COLLAPSIBLE CHARCOAL GRILL

Abstract: Source: US3503324A ABSTRACT OF THE DISCLOSURE

A collapsible charcoal grill including a housing having an open top which is closable by a cover member and containing a charcoal pan and grill bars disposed above the pan and adjustable in height with respect to the pan, the pan being disposed in the housing in such a manner as to define at least one air space with the floor and side walls of the housing, the pan and housing being arranged to close the air space around the upper edges of the housing side walls, at least one lateral side wall having an adjustable opening for the passage of air to the air space, the grill further including lever means for adjusting the height of the grill bars over a large range, detachable members for providing a heat deflector, for protecting the grilling area from wind, and for supporting a rotary spit, and collapsible or foldable legs for supporting the grill when it is to be used. B



Probable Assignee: GMEINER H

Earliest Publication Date: 19670524

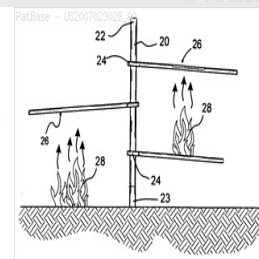
41) Family number: 34171131 (US2007023028A)

FASTENERLESS GRAVITY RETAINED CANTILEVERED OUTDOOR COOKING ASSEMBLIES AND RELATED METHODS

Abstract: Source: US2007023028A Cantilevered outdoor cooking assemblies, and related methods, are disclosed, which comprise one or more cantilevered cooking trays adjustably suspended from an erect post by gravity without fasteners.

Probable Assignee: MORTENSEN BRUCE

Earliest Publication Date: 20070201



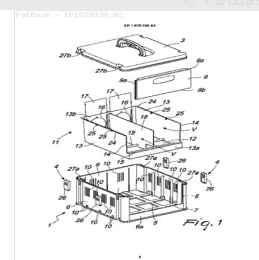
42) Family number: 41057906 (EP1878339A2)

CARRIER FOR BIRDS AND SMALL ANIMALS

Abstract: Source: EP1878339A2 A carrier (1) for birds and small animals, comprising a crate (2) for containing at least one animal which is closed by a removable lid (3), and at least one tray (11), which is accommodated within the crate (2) and is associated detachably therewith, the tray (11) forming at least one containment compartment (V).

Probable Assignee: 2 GR DI GOBBI LUCIANO AND C SNC

Earliest Publication Date: 20080114



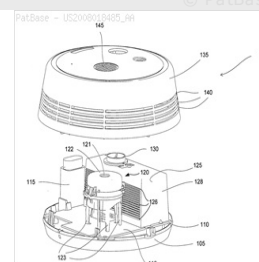
43) Family number: 41117839 (US2008018485A)

OPTICAL PARTICLE DETECTORS

Abstract: Source: US2008018485A The presently disclosed embodiments relate to improved optical particle detection devices and methods of manufacturing.

Probable Assignee: GENTEX CORP

Earliest Publication Date: 20080124



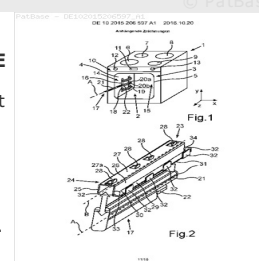
44) Family number: 63835965 (DE102015206597B4)

ADAPTERSCHIENE ZUM KOPPELN EINES GARGUTTRAEGERS MIT EINER LAUFSCHIENE EINER SCHIENENAUSZUGSEINRICHTUNG SOWIE ANORDNUNG MIT EINER DERARTIGEN ADAPTERSCHIENE

Abstract: Source: DE102015206597B4 Adapterschiene (23) zum Koppeln eines Garguttraegers (35, 36, 37, 39) mit einer Laufschiene (21) einer Schienenauszugseinrichtung (17), welche einen rinnenartigen Grundtraeger (24) aufweist, wobei die Adapterschiene (23) in ihrer Laengsrichtung (B) betrachtet eine Mehrzahl von beabstandet zueinander angeordneten Haltetaschen (28, 32, 32') aufweist, welche zumindest eine erste Haltetasche (28) und zumindest eine zweite Haltetasche (32, 32') umfassen, dadurch gekennzeichnet, dass der Grundtraeger (24) im Querschnitt mit einer auf den Kopf gestellten U-Form ausgebildet ist, wobei an dem Grundtraeger (24) ein abstehender Steg (29) angeordnet ist, an welchem eine Mehrzahl von zweiten Haltetaschen (32, 32') angeordnet ist.

Probable Assignee: BSH HAUSGERAETE GMBH

Earliest Publication Date: 20161020



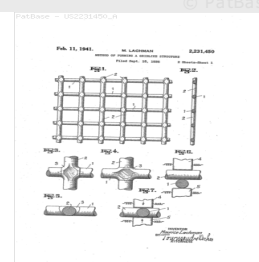
45) Family number: 21452792 (US2231450A)

METHOD OF FORMING A GRIDLIKE STRUCTURE

Abstract: Source: US2231450A 1. The method of forming a grid structure by uniting metallic members together consisting in bringing into surface contact two crossing members of substantially uniform cross section and of the same cross section at their crossing points substantially equal to the original cross section, both of said members being of the same cross section, applying pressure and a heavy heating electric current at the point of intersection of said members for at a predetermined period of time to fuse, coalesce and compact the metal of said members to reduce their combined cross-section under the applied pressure to an extent approximately equal to the original cross section of one of the members at the crossing point, and then reducing the strength of the current to continue the process with slow heating and continued pressure to further coalesce and compact the metal to produce a structure wherein the portions of metal of the members at the point of intersection are homogeneously and integrally combined whereby the outer surfaces of the members occupy the same common plane on each face of said structure.

Probable Assignee: L T CORP

Earliest Publication Date: 19410211



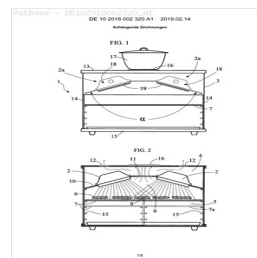
46) Family number: 73166527 (DE102018002320A1)

GRILLGERAET BARBECUE DEVICE (MACHINE TRANSLATION)

Abstract: Source: DE102018002320A1 Die Erfindung bezieht sich auf ein Grillgeraet (1) mit einem Blechgehaeuse (3) und einem darin befindlichen Grillrost (7) zur Aufnahme des Grillgutes und zwei im Abstand zum Grillrost (7) angeordnete Waermequellen (2), wie Infrarotstrahler oder Gasstrahler, wobei der Grillrost (7) im Strahlungsbereich der Waermequelle (2) liegt. Die Aufgabe der Erfindung besteht darin, eine Ausrichtung der Waermequellen (2) in Richtung des Grillrostes (7) so einzustellen, dass deren Strahlungsbereiche am Grillrost (7) eine gleichmaessige Temperaturverteilung erzeugen. Die Aufgabe wird erfindungsgemaess dadurch geloest, dass die in einer Reihe nebeneinander liegenden Waermequellen (2) zum Grillrost (7) hin geneigt angeordnet sind und einen stumpfen Winkel (a) einschliessen. Der Vorteil der Erfindung besteht darin, dass das Grillgut (6) gleichmaessig gegart wird und mehr Platz auf dem Grillrost (7) vorhanden ist. The invention relates to a device (1) having a sheet metal housing grille (3) and a grill located therein, (7) for accommodating the grille good and two in the distance to the Grill (7) arranged heat sources (2), as infrared emitters or gas ejected, wherein the grill (7) in the radiation area of the heat source (2). The object of the invention consists of providing an orientation of the heat sources of the grille (2) in the direction of the grate (7) in such a way that the radiation areas on the grill (7) has a uniform temperature distribution. The object is achieved according to the invention, in a series of adjacent heat sources (2) to (7) are arranged in an inclined manner in relation to grill and an obtuse angle (a). The advantage of the invention is that the food is evenly cooked (6) and more space on the grill (7) is present.

Probable Assignee: MEISSNER WERNER

Earliest Publication Date: 20190214



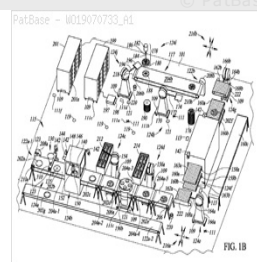
47) Family number: 73932254 (WO19070733A1)

SELF-PROPELLED FOOD PREPARATION APPLIANCES AND ON-DEMAND ROBOTIC FOOD ASSEMBLY WITH SELF-PROPELLED FOOD PREPARATION APPLIANCES

Abstract: An on-demand food assembly line can include one or more conveyors and one or more self-propelled food preparation appliances, operable to assemble food items in response to received orders for food items, and one or more ovens operable to, for example, partially cook assembled food items. The self-propelled food preparation appliances may receive one or more instructions that cause each of the self-propelled food preparation appliance to move, as a unit, to one of a plurality of positions along the food assembly line, in which the positions may be based, for example, upon one or more of the type of food item to be prepared and the location of power outlets and/or fuel connections. Cleaning appliances and replenishment appliances may be provided to clean and reload the ingredient for the self-propelled food preparation appliances.

Probable Assignee: ZUME INC

Earliest Publication Date: 20190411



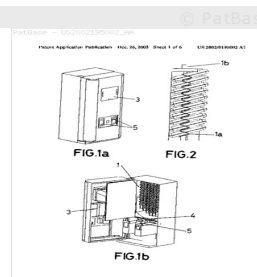
48) Family number: 28273212 (US2002195002A)

HOT SANDWICH VENDING MACHINE

Abstract: Source: US2002195002A A device and methods for automatically vending hot rolls based on French bread known as a "baguette" are provided. The rolls are sealed in plastic bags, frozen, and kept refrigerated in the device. The device can automatically transfer a roll from the refrigerated compartment to an oven in order to heat and toast the roll. The user may remove the product when it is ready, but cannot access the one or more oven compartments. The device may also contain a multimedia panel that shows images of the rolls, manages the selection and shows the coinage balance.

Probable Assignee: RECREATIVOS PRESAS SL

Earliest Publication Date: 20010531



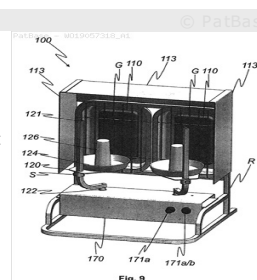
49) Family number: 73576971 (WO19057318A1)

PORTABLE GRILL DEVICE

Abstract: The invention relates to a portable grill device (100) having at least one substantially vertically oriented, planar heat source (110), at least one carrier (120) for food to be grilled, said carrier being arranged in front of the heat source (110), at least one drive unit (130) for rotating the at least one carrier (120) for food to be grilled about a substantially vertical axis of rotation (DA) and an energy supply (140) for supplying the drive unit (130) with the energy needed for the operation thereof. The portable grill device (100) comprises at least one adjusting unit (150), which is designed to continuously adjust a distance between the at least one heat source (110) and the at least one carrier (120) for food to be grilled while the grill device (100) is in operation.

Probable Assignee: L AND W HOLDING UG

Earliest Publication Date: 20190321



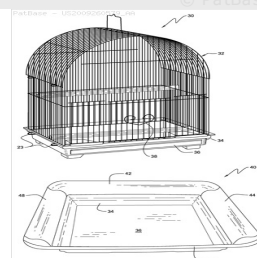
50) Family number: 43872558 (US2009260579A)

LOW PROFILE CAGE WITH REFUSE CATCHER

Abstract: Source: US2009260579A A cage for small animals includes a generally closed base having an open top; a grating structure upon the base forming a closed structure for containing an animal therein; and a refuse catcher surrounding the grating structure and removably fastened to the base so as to permit the refuse catcher to be removed from the base by being detached from the base and moved upward away from the base without removing the grating structure from the base. The cage can be a bird cage, wherein the refuse catcher is a seed catcher that is formed of a plurality of mating parts, the parts being releasably attached to each other and to the base.

Probable Assignee: BLUE RIBBON PET PRODUCTS INC

Earliest Publication Date: 20091022



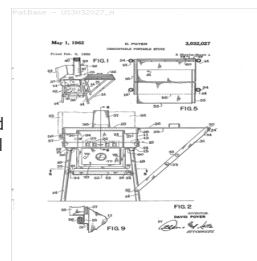
51) Family number: 22549492 (US3032027A)

DEMOUNTABLE PORTABLE STOVE

Abstract: Source: US3032027A (Claim 1) 1. A demountable readily portable Stove and barbecue comprising a combined sheet metal carrying case for enclosing all parts of the Stove when disassembled and an open-topped one-piece firebox adapted to be covered selectively by a separate grating and by a separate solid top depending upon the cooking operation being performed and forming separate components of said stove, socket means carried by said firebox, and legs for supporting said firebox horizontally at a convenient operation from the top of the oven until reversely bent flange 87 40 ing height with their upper ends detachably seated in along its top edge nests over upturned flange 86 of top said sockets, a readily collapsible sheet metal oven havwall 74. All parts are now locked rigidly in assembled ing top, bottom, and side walls, said oven having flange position. means extending longitudinally of the upper lateral corIt will be recognized that oven 70 may be used either ners thereof, and cooperating support means on the botwhile supported against the bottom of firebox 11 or on 45 toms of said fire box adapted to mate with said oven flange cooking top 25. Mounting of the oven 70 beneath the firebox is accomplished by inserting outwardly directed flanges 82, 82 along the upper lateral corners of the oven into guide Channels 90, 90 secured along the bottom of means and to receive said flange means slidingly to support the top wall of the oven in close heat exchange relation with the bottom of said fire box.

Probable Assignee: DAVID POYER

Earliest Publication Date: 19620501



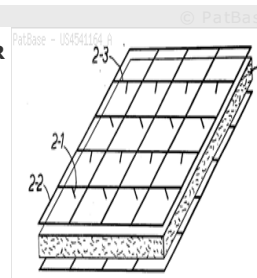
52) Family number: 2501911 (US4541164A)

INSTALLATION FOR THE MANUFACTURE BY A CONTINUOUS PROCESS OF COMPOUND PANELS FOR BUILDING CONSTRUCTION

Abstract: Source: US4541164A An installation for manufacturing panels used in building construction which panels comprise a metal framework of two parallel meshes joined by connector wires which obliquely pass through a core of lightweight material between the two parallel meshes to which latter said connector wires are welded, the installation including a conveyor device for entry into the machine, a first section of an intermittent traction and advancing device within the machine, a dispensing device for feeding connector wires to a fastening device for inserting them in the lightweight core, a second section of the intermittent traction and advancing device, a column of electrodes for welding the connector wires, a third section of the intermittent traction and advancing device, a saw device for shaping the resulting panels and automated mechanisms and systems for controlling all these elements.

Probable Assignee: INDAVE M M

Earliest Publication Date: 19830601



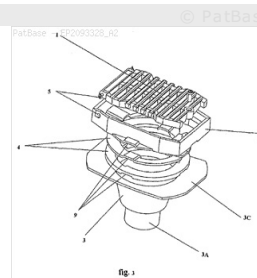
53) Family number: 43637775 (EP2093328A2)

VARIABLY CONNECTED BRIDGE DRAINER

Abstract: Source: EP2093328A2 The bottom part of the bridge drainer consists of the tray (3). The outlet of the tray (3) is joined to the bridge draining system and the top rim of said tray (3) is shaped to form the collar (3C). On this collar (3C) the waterproofing (11) is located on which the set of the frame (2) with the grating (1) is laid. The grating (1) is joined with the frame (2) by means of the hinge (5) which is located so that the axial junction is perpendicular to the traffic direction on the bridge. The frame (2) has a circular opening in itself on the circumference of which the limiting lugs (10) are made to limit the rotational rectification, said limiting lugs (10) having the shape of opposite located sectors, rotated by 45 degrees against the vertical axis of said frame (2). The bottom part of said frame (2) is provided with the grooves (9) to drain off the surface of the waterproofing (11) of the bridge. If needed, the drainer system can be modified, during assembling, for diverse thicknesses of the bridge floor layer set by relevant combination of dimensional variants of the rectification rings (4), inserted between the waterproofing (11) and said frame (2). According to the requirement on the water outlet direction, the tray (3) with the vertical outlet (3A) or the tray (3) with the side outlet (3B) can be used.

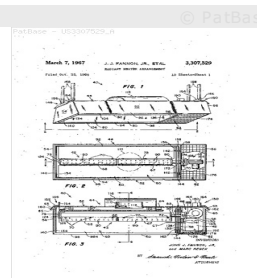
Probable Assignee: BRUJ VACLAV

Earliest Publication Date: 20090826



54) Family number: 29948774 (US3307529A)

RADIANT HEATER ARRANGEMENT



Abstract: Source: US3307529A 1,117,712. Burners. HUPP CORPORATION. 8 Oct., 1965 [23 Oct., 1964], No. 42732/65. Headings F4F and F4T. [Also in Division F1] A gas-fired infra-red heater comprises a U-shaped aluminium casing 52 divided by a transverse partition (58), into a blower and control compartment and a burner compartment. The burner comprises a tubular line burner 66 extending the length of the burner compartment and two trough-like radiant grids (67) 68 mounted in end to end relationship on the burner 66 and defining therewith a combustion zone 86. A conduit (82) supplies a gas/air mixture from the blower compartment to one end of the burner 66 and the mixture discharges through ports 84 in the lower side of the burner. The heat radiated by the grids (67) 68 is directed into a beam by two semi-parabolic reflectors 92, 94 which extend the length of the burner compartment and are secured to the casing 52 in spaced relationship by screws 102. Combustion products flow through apertures 90 in the grids 67, 68 and through spaces 108 between the burner and the reflectors to a flue collar 110 in the upper wall of the casing 52. Air passes up the spaces 104 between the reflectors 92, 94 and the side walls of the casing to dilute and cool the combustion gases. A baffle 120 directs the combustion gases laterally into the cooling air. The flue collar 110 is provided with a rain cover 116. Heat shields (134, 136, 138) are mounted in the burner compartment in spaced relation to the ends of the burner compartment. The burner control apparatus is mounted on a tray (192), Fig. 1 (not shown), in the blower/control compartment and includes a solenoid valve (V), Fig. 3 (not shown), controlling the gas supply to a mixing chamber and energized from a power source (180) through a centrifugal switch (CS) which closes when the motor (M) driving the blower attains a certain speed. The centrifugal switch also energizes a relay (RC) which energizes a spark transformer (T) and short circuits a resistance (X) in the lead to the solenoid valve (V) so that the valve opens. A flame detector comprising a mercury filled capillary tube (CT) located close to the radiant grid (67) opens a switch (FS) in the relay circuit in the presence of a flame to de-energize the spark transformer (T) and to reduce the current through the solenoid valve (V) If the flame is not detected after a predetermined time a heater in the relay circuit causes a bi-metallic switch (BS) to de-energize the solenoid valve and the spark transformer. In a second embodiment, Figs. 4-14 (not shown) the heater includes two side by side distribution tubes (246) of diamond shaped cross-section having two parallel longitudinal flanges (262) forming an outlet passage (264) in which are clamped embossed metallic ribbons (266) forming small outlet passages. The ends of the ribbons are brazed together and project beyond the ends of the distribution tube. Each distribution tube is provided with two in-line infra-red generating grids which are heated by the flames to incandescence and which are formed by displacing loops (292) (Fig. 13) from a sheet of heat resistant metal which is then bent into a horse shoe configuration having mounting flanges (290) extending towards each other. Metal clips (298) engage the flanges (290) and are clamped to the flanges (262) of the distribution tube. The end covers (216, 218), (Figs. 5, 7), of the heater casing (206) are pivoted to the U-shaped main cover member (214) to facilitate replacement of the infrared generators and to provide easy access to the blower-control compartment (224). A pair of inclined reflectors (346), (Fig. 4) is clamped to the flanges (262) of each distribution tube. A U-shaped rain cover covering a flue collar (378), (Fig. 6) in the top of the heater casing may be provided with an aperture into which a flue pipe is connected and a circular baffle (398) is suspended below the aperture. The mouth of the heater casing (206) is covered by an aluminium grill (424), (Fig. 4) of egg-crate construction. Gas is supplied to a mixing chamber (436), (Fig. 8) by a manifold (472) located within the chamber and provided with two spuds (476) screwed to oppositely directed outlets. The air delivered by the blower 430, through an apertured plate (462) to the mixing chamber is automatically controlled by a pivoted damper (500) located in the blower outlet and actuated by a bimetal actuator (508), (Fig. 9) mounted inside the heater casing. As the temperature inside the heater increases the damper opens. The capillary flame detector (582), (Fig. 11) is mounted in parallel spaced relationship to the lower edge of one of the infra-red generators and the loops 292 of the generator above the detector are removed so that the detector responds rapidly to the beginning and termination of combustion. A trough shaped shield (592) shields the detector from drafts. In a third embodiment, (Figs. 17, 18), the reflectors 702 are of apertured construction and are removably mounted and the open bottom of the blower-control compartment is covered by an apertured plate. A spark plug, (Figs. 15, 16) comprises a rod shaped energized electrode (532) and a hairpin shaped grounded electrode (552) mounted on a cylindrical ceramic body (536) so that the rod electrode extends along the axis of the hairpin electrode and a spark gap (570) is formed between the end of the rod and the bend of the hairpin.

Probable Assignee: FOSTORIA FANNON INC

Earliest Publication Date: 19660414

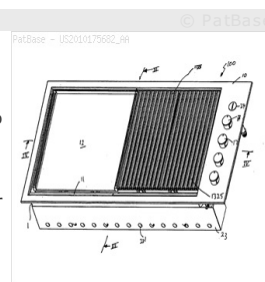
55) Family number: 42415278 (US2010175682A)

BARBECUE AND BARBECUE COMPONENTS

Abstract: Source: US2010175682A The present invention provides a barbecue (100) having an outer cabinet (1) which is adapted to fit into a bench top via hole in said bench, said cabinet (1) having an upper periphery adapted to engage an upper surface of said bench, said barbecue including along at least a portion of one side a trough (26) which extends downwardly from said upper periphery, said barbecue (100) having a wall (8) separating said trough (26) from a combustion chamber (2.2) wherein there is located at least one burner (2), whereby said wall (8) includes a viewing panel (8.3, 8.4) so that an operator standing close to said one side can view flame on said burner (2) through said trough (26) and said panel (8.3, 8.4). The present invention also provides a lid (200), a hotplate or griddle (12) and a grease collection system with a removable grease collector (11) which extends along at least a part of a forward edge of the hotplate (12) or grille (1325) so as to receive grease or liquid or other substances therefrom. The present invention also provides a grille assembly (1325) comprising an upper (25) and a lower grid (13) and a drop-in bench barbecue (100).

Probable Assignee: ELECTROLUX AB

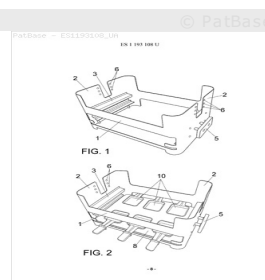
Earliest Publication Date: 20081023



56) Family number: 67192388 (ES1193108U)

BARBACOA PORTATIL PORTABLE BARBECUE (MACHINE TRANSLATION)

Abstract: Source: ES1193108U 1. Barbacoa portátil, caracterizada porque esta constituida a partir de un bastidor de apoyo sobre la superficie en la que este destinado a implantarse, bastidor constituido por un cuerpo general tubular, prismático rectangular, abierto superiormente, incorporando en sus laterales guías internas para deslizamiento y montaje de una cubeta enrejillada con doble fondo portadora de las brasas y de recogida de las cenizas generadas por las mismas, incorporando dichos laterales sendas escotaduras superiores en "U" paralelamente a las cuales se establecen alineaciones verticales de orificios para el montaje a diferentes alturas de la parrilla o plancha de asado de los productos; habiéndose previsto que bajo el doble fondo de la cubeta para las brasas se establezca un soporte desmontable para una pluralidad de pequeñas sartenes extraíbles para cocinado a baja temperatura, mientras que superiormente incorpora una tapa de cubrición en forma de bandeja invertida. 1. Portable barbecue, characterized in that it is constituted from a frame support on the surface on which it is intended to be implanted, frame consisting of a generally tubular body, rectangular prismatic, open superiorly, incorporating at its lateral internal guides for sliding and mounting a gridded with double bottom tray carrier of the coals and to collect the ash generated by them, by incorporating said side respective upper recesses in "U" which are set in parallel to the vertical alignments of holes for mounting at different heights of the grill or roast products; having foreseen that under the double bottom of the bowl for the coals to establish a detachable bracket for a plurality Small removable pans for cooked at low temperature, while superiorly incorporates a cover covering in the form of inverted Tray.



Probable Assignee: MANUEL OBRERO RUIZ S A

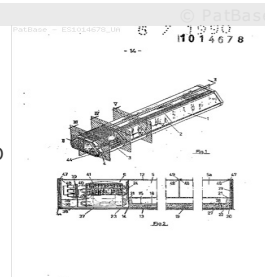
Earliest Publication Date: 20171011
57) Family number: 17249952 (ES1014678Y)

VITRINA EXPOSITORA REFRIGERADA PARA PRODUCTOS ALIMENTICIOS.

Abstract: Source: ES1014678U VITRINA EXPOSITORA REFRIGERADA PARA PRODUCTOS ALIMENTICIOS, QUE COMPRENDE UNA CARCASA ALARGADA SUBDIVIDIDA TRANSVERSALMENTE EN DOS COMPARTIMENTOS DE DIFERENTE LONGITUD, EN EL MENOR DE LOS CUALES SE ALOJA EL EQUIPO REFRIGERADOR, MIENTRAS QUE EL OTRO ESTA INFERIORMENTE LIMITADO POR UNA BANDEJA INTERMEDIA, BAJO LA QUE DISCURREN, EN CONTACTO CON LA MISMA, LOS CONDUCTOS DEL EVAPORADOR DEL EQUIPO REFRIGERADOR, CUYA CARCASA ESTA COMPUESTA POR UNA ARMADURA FORMADA POR TRES PERFILES LONGITUDINALES ENTRE LOS QUE SE MONTAN PANELES DE CIERRE QUE DEFINEN LAS PAREDES, ESTANDO UNA DE LAS PAREDES LONGITUDINALES CONSTITUIDA, EN EL TRAMO QUE CIERRA EL COMPARTIMENTO MAYOR, POR DOS PUERTAS DESLIZANTES, CARACTERIZADA PORQUE EL COMPARTIMENTO MAYOR COMPRENDE UN DOBLE FONDO COMPUESTO POR DOS BANDEJAS, UNA SUPERIOR Y OTRA INFERIOR, Y POR DOS PERFILES LONGITUDINALES DE CIERRE QUE RECIBEN LOS BORDES LONGITUDINALES DE AMBAS BANDEJAS Y DEFINEN APOYOS PARA CUBETAS CONTENEDORAS DE ALIMENTOS, CUYAS BANDEJAS Y PERFILES DELIMITAN UN ESPACIO POR EL QUE DISCURREN LOS TUBOS DEL EVAPORADOR, ADOSADOS AL FONDO DE LA BANDEJA SUPERIOR, Y ESTA RELLENO DE UN MATERIAL DE BAJA DENSIDAD Y TERMICAMENTE AISLANTE, RPOLONGANDOSE LA BANDEJA INFERIOR POR DEBAJO DEL COMPARTIMENTO MENOR HASTA LA PARED EXTERIOR QUE LIMITA TRANSVERSALMENTE DICHO COMPARTIMENTO, Y DISPONIENDO SUPERIORMENTE, EN EL LIMITE ENTRE LOS DOS COMPARTIMENTOS, DE UN TABIQUE TRANSVERSAL SENDOS ANGULARES LONGITUDINALES, SOBRE LOS QUE SE FIJAN LOS DOS PERFILES INFERIORES DE LA ARMADURA. Refrigerated DISPLAY CASE FOR FOOD PRODUCTS, comprising an elongated housing subdivided transversely into two compartments of different length, IN THE SHORTEST OF WHICH IS HOUSED THE COOLING EQUIPMENT, WHILE THE OTHER IS INFERIORLY LIMITED BY AN INTERMEDIATE TRAY, UNDER WHICH, IN CONTACT WITH THE SAME, the ducts of the evaporator OF THE COOLING DEVICE, WHICH HOUSING IS COMPOSED OF A FRAME formed by three longitudinal profiles between WHICH ARE MOUNTED CLOSURE PANELS DEFINING THE WALLS, being one of the longitudinal walls constituted, IN THE SECTION THAT CLOSES THE LARGER compartment, by two sliding doors, characterized IN THAT THE LARGER COMPARTMENT COMPRISES A DOUBLE BOTTOM COMPOSED OF TWO TRAYS, one upper and one lower, and Two longitudinal profiles WHICH RECEIVE THE LONGITUDINAL EDGES OF BOTH TRAYS AND DEFINE supports for trays, which trays food wrapper and profiles Delimit a space along WHICH THE TUBES OF THE EVAPORATOR, ATTACHED TO THE BOTTOM OF THE UPPER TRAY, AND IS FILLED WITH A THERMALLY INSULATING MATERIAL OF LOW DENSITY AND RPOLONGANDOSE, the bottom tray below the lower compartment up to the outer wall of said compartment, AND HAVING SUPERIORLY TRANSVERSELY TO LIMIT, IN THE LIMIT BETWEEN THE TWO compartments, A TRANSVERSE PARTITION TWO SEPARATE LONGITUDINAL angular, ON WHICH ARE FIXED THE TWO LOWER PROFILES OF THE ARMATURE.

Probable Assignee: AZKOYEN HOSTELERIA S A

Earliest Publication Date: 19910416



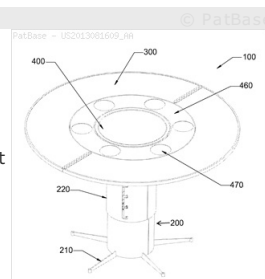
58) Family number: 53422828 (US2013081609A)

MODULAR FIRE PIT TABLE

Abstract: Source: US2013081609A In one embodiment, a fire pit table apparatus includes a base having a ground contacting portion. The apparatus also includes a table assembly coupled to the base. The table assembly includes a table top for placement of one or more objects. The table top has an opening formed therein. The apparatus also includes a fire bowl assembly that is disposed within the opening of the table top such that the table top surrounds at least a portion of the fire bowl assembly and provides access to the fire bowl assembly. The fire bowl assembly includes a fire bowl and a hot top member that is disposed around the fire bowl. The hot top member includes a planar surface on which one or more objects can be placed, wherein the fire bowl and the hot top member are rotatably coupled to the table assembly to permit rotation of the fire bowl assembly relative to the table assembly.

Probable Assignee: DHUPER SUNIL KUMAR

Earliest Publication Date: 20130330



59) Family number: 16509005 (DE8410438U1)

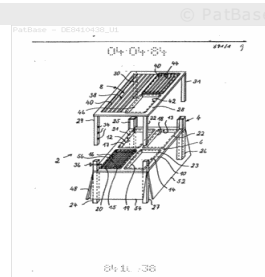
GRILLGERAET GRILL EQUIPMENT (MACHINE TRANSLATION)

Abstract: Source: DE8410438U1 (Claim 1) 1. Grillgeraet mit einem Gestell, in dem eine Kohlenwanne und darueber ein in der Hoehe verstellbares Grillrost ange- ordnet sind und an dem ferner ein Windschutz befestigt ist, dadurch gekennzeichnet, dass eine plattenfoermige Kohlenwanne vorgesehen ist, die mehrere einzelne Ausschnitte (12,13, 14,15) aufweist, in denen jeweils ein Einsatz (16,17, 18, 19) zur Aufnahme von Grillkohle angeordnet ist, und dass das Grillrost (8) wenigstens einen herausnehmbaren Rosteinsatz aufweist.

Machine translation: (Claim 1) 1 Grillgeraet with a frame in which arranges in-a coal basin, and about it in the height-adjustable grill rack and are secured to the further a windbreak, characterized in that a plate-coal basin is provided, the number of separate sections (12,13, 14, 15), is one in which each use (16,17, 18, 19) arranged for recording of charcoal, and that the grill rack (8) has at least one removable grill use.

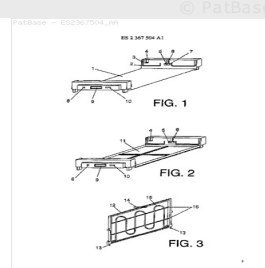
Probable Assignee: ROHRMOSER ERHARD 3006 BURGWEDEL DE

Earliest Publication Date: 19840816



60) Family number: 49915705 (ES2367504A)

PARRILLA VERTICAL. VERTICAL GRILL. (MACHINE TRANSLATION)



Abstract: Source: ES2367504A Parrilla asadora vertical, que se configura a partir de un cuerpo inferior, de soportes laterales y base rigida (1) de chapa, comprendiendo una bandeja recoge-grasas (11) horizontal y una resistencia (15) vertical, alojada en un marco (12), a ambos lados de la cual se cuelgan parrillas flotantes (18) y tapas laterales (17) abatibles. En los elementos laterales se ha previsto un cajeado central (6), un cajeado lateral (4) y una pieza de apoyo (7) para sujecion del marco (12) y las tapas. Ademas, cuenta con puntos de toma de corriente (5) donde encajan clavijas (13) previstas en el marco (12) que incorpora una barra giratoria (14) de apoyo a las parrillas flotantes (18), constituidas por rejilla de doble cara, constituidas por un marco con muelles (20) con un punto de apoyo (21) para su cuelgue en la barra giratoria (14) y con asas desmontables (19).

Machine translation: ROASTING RACK vertical, which is configured from a lower body, side supports and rigid base (1) sheet, comprising a fat collection tray (11) and horizontal resistance (15) vertical, housed in a frame (12), on both sides of which are suspended floating grills (18) and side covers (17) hinged. In the side members is provided a center recess (6), a lateral recess (4) and a bearing piece (7) for mounting the frame (12) and caps. Also, has outlet points (5) where fit pins (13) provided on the frame (12) which incorporates a rotating rod (14) to support the floating shelves (18), consisting of double-sided grid, consisting of a frame with springs (20) with a support (21) to hang in the pivot (14) and with detachable handles (19).

Probable Assignee: PROYECTOS EVOR S L

Earliest Publication Date: 201111104

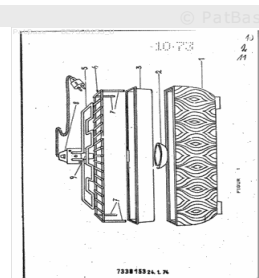
61) Family number: 16255868 (DE7338153U)

Abstract: Source: DE7338153U (Claim 1) Schutzansprueche 1. Grillgeraet mit einem Heizkoerper, dadurch gekennzeichnet, dass in einer Untersatzschale (1) ein Rost (6) abnehmbar eingesetzt und zwischen Rost (6) und Boden der Untersatz- schale (1) der sich ueber eire der Auflageflaeche des Rostes entsprechende Flaechen unter Einhaltung weiter Durchtritts- oeffnungen erstreckende Heizkoerper (5) mittels eines Hal-

Machine translation: (Claim 1) Protection claims first Grill device with a heater, wherein a sub-set dish (1) a grid (6) used to remove and between rust (6) and the bottom of the pedestal dish (1) which is further than eire the bearing surface of the grate area corresponding compliance passage openings extending radiators (5) using a Hal-

Probable Assignee: SCHEURICH GMBH AND CO KG

Earliest Publication Date: 19740124



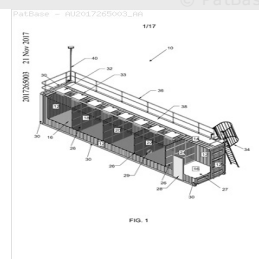
62) Family number: 68098123 (AU2017265003B)

LIQUID STORAGE OR TREATMENT SYSTEM

Abstract: Source: AU2017265003B The present invention provides a liquid storage and/or treatment system comprising an enclosure (including a partial enclosure) configured to accommodate two or more liquid retaining vessels. The enclosure or partial enclosure may be a shipping container, or a modified shipping container, or fabricated from a shipping container. The enclosure may further comprise a control room, various liquid handling/processing components such as filters, pumps and the like, reagents such as coagulants and disinfectants. The present systems may be used to treat waste water or sewage, and in some embodiment produce water that may be released into the environment or even potable water. 30 I I 33 26 2 degrees G 2: 27

Probable Assignee: AKS IND AUSTRALIA PTY LTD

Earliest Publication Date: 20180104



63) Family number: 77363811 (IN201841025797A)

SINGULAR FOOD PROCESSING MACHINE

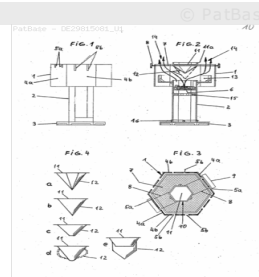
Abstract: Source: IN201841025797A A singular food processor appliance, machine which includes various types of adaptors for permitting both liquid and solid food ingredients to be separately or concurrently fed into the appliance for processing therein, or for adapting the appliance particularly for processing long, slim food articles. Another described feature is particularly useful are grating, slicing, peeling, kneading, beating, blending and alike. This invention relates to a multifunctional food processing machine comprising: a main housing having an arrangement of gears 3 on top or on the upper side, connected to a motor and arrangement of shafts, which drives a rotational movement of the first and second planet gear elements, the motor being controlled by a switch; and a processing part, the processing part having a casing, a rotatable third element called as sun gear which engages with the first planet gear element or the second planet gear element, and a processing unit, which is connected with the sun gear element, rotating therewith, and housed in the casing; wherein the processing unit rotates, as controlled by the switch, so as to process food.

Probable Assignee: ANIRUDH RAMPRASAD

Earliest Publication Date: 20200117

64) Family number: 16977213 (DE29815081U1)

GRILL EQUIPMENT



Abstract: Source: DE29815081U1 (Claim 1) *Schutzansprueche* 1. Mit festen Brennstoffen, insbesondere mit Holzkohle beheizbares Grillgeraet, im wesentlichen bestehend aus einer in einer Baueinheit angeordneten Brenngutwanne und einem oberhalb dieser vorgesehenen Grillrost, wobei deren Anordnung zueinander so getroffen ist, dass deren Wirkungsbereiche nicht unmittelbar uebereinander, sondern ausserhalb voneinander liegen, dadurch gekennzeichnet, dass in einem vorzugsweise mantelartigen Gehaeuse (1) eine zentral angeordnete Brenngutwanne (6) vorgesehen ist und der obere Bereich des Gehaeuses (1) einen ringartigen Grillrost (7) traegt, dessen zentraler roststabloser Mittelabschnitt (10) mit der Groessenerstreckung der Brenngutwanne (6) fluchtet und eine Abdeckung (11) aufweist, die mit nach innen ragenden Waermekonvektionsleitkoerpern (12) versehen ist und dass das Gehaeuse (1) in seinem unteren Bereich eine ringartige Fettauffangpfanne (13) traegt, die mit dem ringartigen Grillrost (7) fluchtet und deren Breitenerstreckung etwa der des ringartigen Grillrostes (7) entspricht.

Machine translation: (Claim 1) *Schutzansprueche* 1 With solid fuels, particularly charcoal heated Grillgeraet, essentially consisting of a in one unit arranged Brenngutwanne and above these planned grill grate, and their arrangement is mutually met so that their effective ranges are not directly over each other, but outside of each other, dadurch h indicated that in of a preferably shell-like body (1) a centrally located Brenngutwanne (6) is provided, and the upper portion of the housing (1) a ring-like grill grate (7) carries, der Brenngutwanne whose central stainless rod loose middle section (10) with the Groessenerstreckung (6) flush and one cover (11), which is provided with inwardly ragenden Waermekonvektionsleitkoerpern (12) and that the housing (1) under section into its one-ring-like grease drip pan (13) carries, with the ring-shaped barbecue grill (7) is aligned and their width span as that of the ring-like grill grate (7).

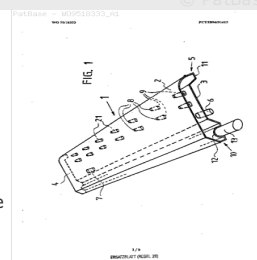
Probable Assignee: SIA HANDELSGES

Earliest Publication Date: 19990211

65) Family number: 8534284 (WO9518333A1)

SLIDING FIRE GRATE MODULE FOR REFUSE INCINERATION IN COMMERCIAL-SCALE INSTALLATIONS AS WELL AS METHOD FOR ITS OPERATION

Abstract: The sliding fire grate module consists of a plurality of reciprocally moved grating steps (14-17, 24, 25), a primary air supply and an ash collector (63), and is characterized in that the entire grate with all its drive, feed and control elements forms a modular unit suitable for road transport. To this end the grate is laterally delimited by two outwardly open planks (54) through which a coolant can flow and which bear all the overlapping grating steps (14-17, 24, 25) on steel tubes (22) which connect them or on steel rollers (23) which are directly or indirectly attached to them. Each grating step consists of hollow grating panel (14-17) which is fitted with connections for coolant. These grating panels extend over the entire clear width between the planks (54). Every second grating panel (16, 17) or grating step is driven by its own hydraulic cylinder-piston unit, which is built in directly beneath it and attached with its stationary end to a steel tube (22) connecting the planks (54). The movable grating panels (16, 17) or grating steps run on steel rollers (23) which are directly or indirectly attached to the planks (54).



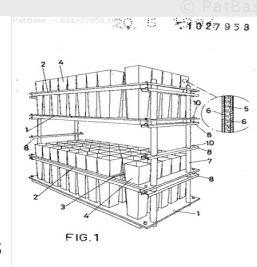
Probable Assignee: DOIKOS INVESTMENTS LTD

Earliest Publication Date: 19950706

66) Family number: 34631354 (ES1027958Y)

BANDEJA SEMILLERO APILABLE.

Abstract: Source: ES1027958U BANDEJA SEMILLERO APILABLE, DEL TIPO DE LOS QUE SE PUEDEN LLENAR AUTOMATICAMENTE Y CONTIENEN LAS PLANTAS EN PLURALIDADES DE FILAS Y DE COLUMNAS; CARACTERIZADO PORQUE CUENTA CON UNA BANDEJA BASE Y PLANA (1) PARALELA E INFERIORMENTE DISPUESTA A UNA BANDEJA DE REJILLA (2) DOTADA DE VENTANAS (3) EN LAS QUE PENETRAN PARCIALMENTE UNOS ENVASES ALVEOLARES (4) DE CONVERGENCIA CORRESPONDIENTE CON LA DE LAS PAREDES INTERNAS DE LAS VENTANAS (3); HABIENDOSE PREVISTO QUE LAS PAREDES DE LOS ENVASES ALVEOLARES SE CONSTITUYAN MEDIANTE UNA CAPA CENTRAL (5) PREFERENTEMENTE DE CARTON, PAPEL O SIMILAR, RECUBIERTA EN UNA O EN DOS DE SUS SUPERFICIES POR UNA CAPA (6) DE PLASTICO DEGRADABLE. Stackable seedling tray, OF THE TYPE THAT CAN BE FILLED AUTOMATICALLY AND CONTAIN THE PLANTS IN A plurality of rows and columns; characterized IN THAT HAS A BASE Tray (1) flat and parallel and inferiorly disposed to a tray grid (2) PROVIDED WITH WINDOWS (3) in which penetrate partially (4) OF CONVERGENCE ALVEOLAR CONTAINERS CORRESPONDING TO THAT OF THE INNER WALLS OF THE WINDOWS (3); IT BEING PROVIDED THAT THE ALVEOLAR WALLS OF THE PACKS ARE FORMED BY A CENTRAL layer (5) preferably of cardboard, paper or the like, COATED ON ONE OR TWO OF ITS SURFACES BY A layer (6) OF PLASTIC DEGRADABLE.



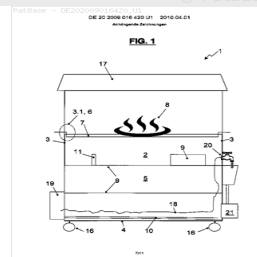
Probable Assignee: IRANZO BOU MANUEL

Earliest Publication Date: 19941101

67) Family number: 44512931 (DE202009016420U1)

VORRICHTUNG ZUM GAREN VON LEBENSMITTELN DEVICE FOR REFINING FOOD (MACHINE TRANSLATION)

Abstract: Source: DE202009016420U1 (Claim 1) 1. Vorrichtung zum Zubereiten von Lebensmitteln (1), insbesondere zum Zubereiten von Gargut, bestehend aus einem im Wesentlichen kastenartigen Gebilde (2), dessen seitliche Umfassungswaende (3) gemeinsam mit einem Bodenelement (4) einen in Aufstellposition nach oben geoeffneten Garraum (5) zur Aufnahme des Gargutes ausbilden, wobei die Umfassungswaende (3) an ihren freien, oberen Stirnseiten (3.1) einen umlaufenden oeffnungsrand (6) definieren, ueber den sich eine den Garraum (5) abdeckende Feuerschale (7) zur Aufnahme einer Waermequelle (8) derart erstreckt, dass das im Garraum (5) eingeschlossene Gargut zum Zwecke seines Garens durch die darueber platzierte Waermequelle (8) mit Waermestrahlung beaufschlagt wird.



Machine translation: (Claim 1) 1. Device for preparing food (1), in particular for preparing property, consisting of an essentially box-like thing (2), whose lateral enclosure walls (3) train together with a soil element (4) upward a Garraum (5), opened in setting up position, as the admission of the property, whereby the enclosure walls (3) at their free, upper faces (3.1) define a circulating edge of opening (6), over that the Garraum (5) taking off fire bowl (7) as the admission of a heat source (8) in such a manner extended that the property enclosed in the Garraum (5) to the purpose of its refining by the heat source platzierte over it (8) one subjects with radiant heat.

Probable Assignee: JAHN RONNY

Earliest Publication Date: 20100225

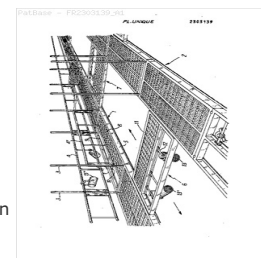
68) Family number: 3534226 (FR2303139A)

GRIL LEGER MOBILE POUR THEATRE OVERHEAD PLATFORM FOR CARRYING SPOT LAMPS - WITH SLIDING MEMBERS BETWEEN LONGITUDINAL WALKWAYS, CARRYING TUBULAR SUPPORTS

Abstract: Source: FR2303139A (Claim 1) 1.- Gril DOur theatre caracterise en ce au'il comporte des passerelles rectilignes disposees parallelement les unes aux autres et des ponts, disposes entre les passerelles, prenant appui sur celles-ci, de facon a pouvoir etre deplaces le lona de celles-ci An overhead platform for carrying spotlights is made up of longitudinal cat walks of grid construction, with shorter cross members between them. The longitudinal sections, can carry uprights in them carrying horizontal tubes for attachment of lamps. Wiring can be incorporated underneath. The ends of the cross members can fit into slides along the edges of the longitudinal section, so as to slide along between them, acting as carriages for further lamps. These lamps are mounted on rods which in turn can slide in runners along the cross members, i.e. the rods travel at right angles to the travel of the carriages.

Probable Assignee: BOSSON JACQUES

Earliest Publication Date: 19761001



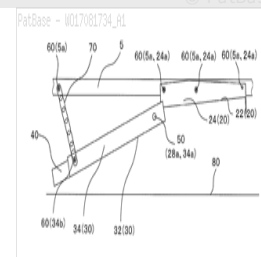
69) Family number: 65707242 (WO17081734A1)

OUTDOOR UNIT FOR REFRIGERATION CYCLE DEVICE

Abstract: An outdoor unit for a refrigeration cycle device is provided with a unit base on which is mounted a heat exchanger, and a drain pan for receiving drain water generated by the heat exchanger via the unit base, wherein the drain pan has a first drain pan that has a first bottom plate for receiving drain water and a first side plate for surrounding the first bottom plate, and a second drain pan having a second bottom plate for receiving drain water and a second side plate for surrounding the second bottom plate. The first side plate is attached to the unit base so that the inclination angle of the first bottom plate relative to the installation surface on which the outdoor unit is installed is adjustable, and the second side plate is rotatably attached to the first drain pan.

Probable Assignee: MITSUBISHI ELECTRIC CORP

Earliest Publication Date: 20170518



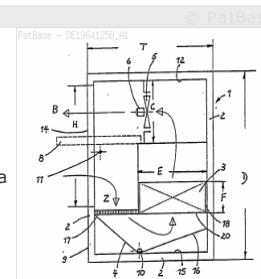
70) Family number: 13245166 (DE19641258A1)

FREEZER ROOM AIR COOLER IN INSULATED HOUSING

Abstract: Source: DE19641258A1 The cooler is contained within a heat insulated housing and comprises a motor-driven fan in the upper section, a heat exchanger in the mid-section and a drip tray at the bottom. An opening in one wall provides access to the freezer room and may be closed by a flap for dehydration purposes. One or more fans (5), driven by speed controlled electric motors (6) draw air through the evaporator heat exchanger (3) of the refrigeration system, through a grill (17), over a drip tray (4) which has a drain (10). When the flap (8), pivoted at a point (11), is in the horizontal orientation air is drawn from the cold room through the lower section of an aperture (14) in one wall of the housing (2) and circulated back through the upper section. In order to reduce the moisture content in the heat exchanger the flap may be closed, heating means turned on and water collected in the drip tray for disposal through the drain.

Probable Assignee: GUENTNER GMBH HANS

Earliest Publication Date: 19980409



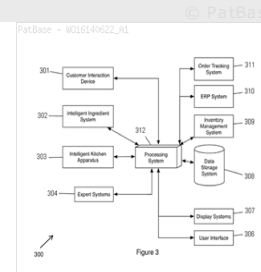
71) Family number: 63513420 (WO16140622A1)

FOOD AND BEVERAGE ORDER MANAGEMENT SYSTEM AND METHOD

Abstract: A food and beverage (F and B) order management system, comprising: an order processing module configured to obtain an order from a customer and generate a set of order fulfilling criteria based on input provided by a recipe database communicatively coupled with the order processing module; and an order tracking module communicatively coupled with the order processing module and configured to track an attribute of a physical object that is used for preparing the order, such that the attribute of the physical object provides an indication of the completion of the set of order fulfilling criteria for successful fulfilment of the order. Also provided is a method of food and beverage order management comprising using the system of the invention, as well as a kit of parts for managing food and beverage orders comprising an order processing module and an order tracking module is also disclosed.

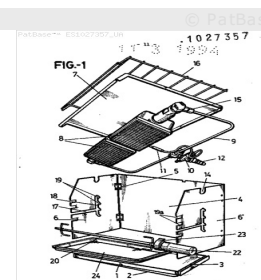
Probable Assignee: SPQ AND J PTE LTD

Earliest Publication Date: 20160909



72) Family number: 34629994 (ES1027357Y)

HORNO PORTATIL A GAS.



Abstract: Source: ES1027357U HORNO PORTATIL A GAS, QUE SIENDO DEL TIPO DE LOS QUE INCORPORAN UNA ESTRUCTURA PLEGABLE, QUE DETERMINA UNA OCUPACION VOLUMETRICA MINIMA PARA LOS MISMOS EN SITUACION INOPERANTE, ESENCIALMENTE SE CARACTERIZA POR ESTAR CONSTITUIDO A PARTIR DE UNA BASE-MARCO, QUE CONFIGURA UNA ESPECIE DE BANDEJA O CAZOLETA DE ESCASA PROFUNDIDAD, DE CONCAVIDAD ORIENTADA HACIA ABAJO, EN CUYO SENO SE ESTABLECEN PATAS PLEGABLES DE SUSTENTACION DEL CONJUNTO Y EN CUYOS BORDES LATERALES Y POSTERIOR SE DEFINEN ESTRECHAS RANURAS, DE EMBOCADURA ORIENTADA HACIA ARRIBA, DESTINADAS AL ACOPLAMIENTO POR ENCHUFAMIENTO DE TRES TABIQUES O PAREDES LATERALES, MATERIALIZADAS EN SENDAS CHAPAS ESMALTADAS, UNIDAS ABISAGRADAMENTE ENTRE SI, DE MANERA QUE LAS DOS CHAPAS LATERALES SON ABATIBLES SOBRE LA CHAPA POSTERIOR EN SITUACION DE DESMONTAJE DEL CONJUNTO, CONTANDO DICHAS CHAPAS LATERALES CON MEDIOS PARA FIJACION, CON POSIBILIDAD DE REGULACION ENALTURA, DE UN PINCHO DE ASAR O PARRILLA, Y COMPLETANDOSE ESTA ESTRUCTURA CON UNA TAPA SUPERIOR, ACOPLABLE AL BORDE SUPERIOR DE DICHAS CHAPAS O TABIQUES LATERALES Y A CUYA CARA INFERIOR ESTA CONVENIENTEMENTE SOLIDARIZADA UNA UNIDAD DE CALOR, MATERIALIZADA EN UNA O VARIAS PLACAS INFRARROJAS, CONVENIENTEMENTE SOLIDARIZADAS ENTRE SI. Portable oven to Gas, which BEING OF THE TYPE INCORPORATING A FOLDING structure, which determines a MINIMUM VOLUMETRIC OCCUPATION FOR THE SAME IN AN INOPERATIVE situation, essentially characterized by being formed from a base-frame, which forms a sort of tray or BOWL OF SHALLOW, of concavity facing downwards, in which folding support legs OF THE ASSEMBLY AND IN THE SIDE EDGES AND REAR ARE DEFINED narrow slots, mouth facing upwards, INTENDED FOR COUPLING BY ENCHUFAMIENTO OF THREE PARTITIONS OR WALLS, embodied in respective plates enamelled, joined HINGEDLY TO EACH OTHER, SO THAT THE TWO SIDE PLATES ARE HINGED ON THE REAR PLATE IN A POSITION OF ASSEMBLY REMOVAL, Having said SIDE PLATES WITH MEANS FOR FIXING, WITH THE POSSIBILITY OF ENALTURA, a skewer to roast or grill, AND COMPLETING THIS STRUCTURE WITH AN UPPER COVER, attachable to the UPPER EDGE OF SAID PLATES OR SIDE WALLS AND WHOSE LOWER face is conveniently made integral A HEAT UNIT, EMBODIED IN ONE OR MORE infrared, conveniently made integral with each other.

Probable Assignee: AFLADOS HERMAS C B

Earliest Publication Date: 19940801

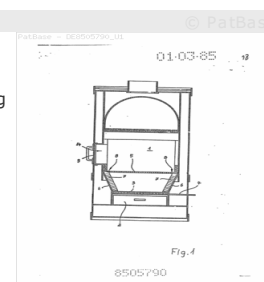
73) Family number: 17587116 (DE8505790U1)

Abstract: Source: DE8505790U1 (Claim 1) 1. Ofen mit einem Feuerraum fuer Festbrennstoff wie beispielsweise Kohle und Holz, wobei der Feuerraum zwei uebereinander angeordnete Roste aufweist und oberhalb des oberen Rostes eine Fuell- oeffnung angeordnet ist, dadurch gekennzeichnet, dass der obere Rost (5, 30) eine Flachfeuerung bildet und der untere Rost (3,17, 31) Bestandteil eines Fuellschachtes ist.

Machine translation: (Claim 1) 1 Furnace with a combustion chamber for solid fuel, such as for example @ coal and wood, the fire room two mutually-arranged gratings exhibits and above the upper grate one's fill-opening is arranged, wherein the upper tray (5, 30) forms a flat firing and the lower grate (3.17, 31) is part of a filling shaft.

Probable Assignee: KLEINE VOSSBECK HELMUT 4370 MARL DE

Earliest Publication Date: 19880519



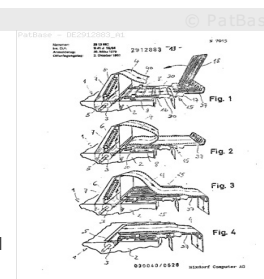
74) Family number: 1784182 (DE2912883A1)

PAPIERLEITVORRICHTUNG FUER DRUCKWERKE PRINTING MECHANISM PAPER GUIDE - HAS TWO GRATINGS HINGING TOGETHER AND LOCKABLE IN DIFFERENT POSITIONS

Abstract: Source: DE2912883A1 Papierleitvorrichtung fuer Druckwerke, die in unmittelbarer Nahe des zur Druckeinrichtung fuehrenden Papier ein- und -auslaufes dies an dieser Stelle bedarfsweise mit einem Gehaeuseaufbau, zB einer Papiertransportvorrichtung versehbaren Druckergehaeuses angeordnet ist, da durch gekennzeichnet, dass am Druckergehaeuse (2) eine Rast- und/oder Klemmelemente (12, 13) aufweisende Halterung (8) befestigt ist, an der ein Leitrost (15), der aus zwei schwenkbar miteinander verbundenen, in der Arbeitsstellung zwei einander parallele Leitebenen fuer den Papierein- und Papierauslauf bildenden Gitterrosten (16 und 18) besteht, in zumindest zwei unterschiedlichen Stellungen (Fig 1 bis 3; Fig 4) in bezug auf den Papier ein- und Papierauslauf (5) mit seinen Rosttaeben (23 bis 27) verrast- bzw verklemmbar ist. The printing mechanism paper guide is mounted on the housing immediately adjacent to the inlet and outlet. It comprises a mounting on the housing and with locking and/or clamping devices for a guide grating. The guide grating consists of two individual gratings hinging together, and forming in the working position two parallel guide planes for the inlet and outlet. There can be locked in two or more different positions in relation to the inlet and outlet.

Probable Assignee: NIXDORF COMPUTER AG

Earliest Publication Date: 19801002



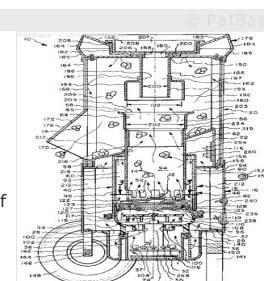
75) Family number: 30993922 (US6460451B)

POPCORN MAKER

Abstract: Source: US6460451B A popcorn maker, which utilizes a combination of popping means, and converts corn kernels to popped corn quicker, more efficiently, and with improved taste. The popcorn maker uses a combination of roasting, agitation, heating, and convection to convert the corn kernels into the popcorn, and expel the popcorn out of the popcorn maker. The popcorn maker is easy to use, the corn kernels and the popcorn easily viewable and fun to watch during popping, the popcorn maker producing the popcorn in a quick, convenient, and efficient manner. The popcorn maker discharges the popcorn from a convenient discharge chute into a receptacle of choice, resembles, and has the appearance of an old fashioned popcorn maker. The popcorn maker is free standing, easy to clean and maintain, and of long lasting, durable material. The popcorn maker is light weight, inexpensive, safe to use, attractive, sturdy, of simple construction., and is easy to store.

Probable Assignee: NOSTALGIA PRODUCTS GROUP LLC

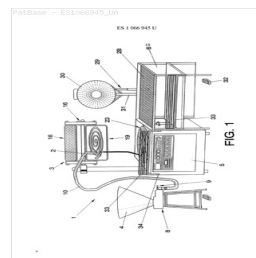
Earliest Publication Date: 20021008



76) Family number: 41659376 (ES1066945U)

"MAQUINA DOSIFICADORA PARA LA REALIZACION DE PRODUCTOS ALIMENTICIOS, ESPECIALMENTE CHURROS, PORRAS Y SIMILARES"
 "DOSING MACHINE FOR MAKING FOOD, ESPECIALLY CHURROS, CHEERLEADING AND THE LIKE"
 (MACHINE TRANSLATION)

Abstract: Source: ES1066945U 1. Maquina dosificadora para la realizacion de productos alimenticios, especialmente churros, porras y similares, del tipo constituido por una freidora (5) en cuyo interior incorpora una caldera que, mediante gas o electricidad, calienta un recipiente (12) destinado a contener el aceite en el que se freira la masa para la obtencion del producto deseado, caracterizada por el hecho de comprender una bomba dosificadora mecanizada (2) que funciona en espiral o lineal, la cual se halla adecuadamente dispuesta sobre un soporte neumatico (3), contando con una tolva de acero inoxidable (4) para su alimentacion con la masa de producto, y una bancada adyacente (6) para el escurrido y cortado, en la que se acopla un brazo neumatico de corte (29); en que la tolva (4) se halla situada sobre una estructura soporte (7), contando con una caja (8) en cuyo interior se halla un sinfin con una salida (9) a la que se acopla una conduccion flexible de uso alimentario (10) en cuyo extremo opuesto cuenta con una conexion rapida (11) apta para ser acoplada a la bomba dosificadora (2); contando, asimismo, con otro brazo neumatico (23) para la extraccion y traslado del producto ya frito y con una rejilla frontal de proteccion (33) que, opcionalmente, y accionada, al igual que el resto de elementos mediante motor electrico y conexion de cables, puede subir y bajar a traves de las guias laterales (34) en las que se sustenta; en que dichos accionamientos se realizan a traves de unos pedales (32) situados en su parte inferior.2. Maquina dosificadora para la realizacion de productos alimenticios, especialmente churros, porras y similares, segun la reivindicacion 1, caracterizado por el hecho de que el soporte neumatico (3) comprende una barra (13) fijada verticalmente a un brazo neumatico (14) fijado al chasis de la freidora (5), contando con un cabezal giratorio (16), accionado neumaticamente o mediante motor (17), acoplado a dicha barra (13) mediante un soporte (15), el cual incorpora superiormente una rejilla tubular (18) para sumergir la masa en el aceite, e inferiormente una bandeja guia (19).3. Maquina dosificadora para la realizacion de productos alimenticios, especialmente churros, porras y similares, segun las reivindicaciones 1 y 2, caracterizado por el hecho de que la bandeja (19) presenta un vaciado (20), destinado para insertar en el una boquilla (21) conectada a la bomba dosificadora (2); y porque, paralelamente al citado vaciado (20), la bandeja guia (19) cuenta con un carril dentado (22) que facilitara el deslizamiento de la bomba (2) en su recorrido.4. Maquina dosificadora para la realizacion de productos alimenticios, especialmente churros, porras y similares, segun las reivindicaciones 1 a 3, caracterizado por el hecho de que el brazo neumatico (23) para la extraccion y traslado del producto ya frito, consiste en un colador o rasera metalica (24), de dimensiones acordes con el recipiente (12) fijado lateralmente a un soporte (25) que a su vez, mediante una union articulada (26) se acopla a una guia (27), permitiendole un movimiento de elevacion para realizar la extraccion y giratorio para el traslado del producto una vez frito hasta la bancada adyacente (6).5. Maquina dosificadora para la realizacion de productos alimenticios, especialmente churros, porras y similares, segun las reivindicaciones 1 a 4, caracterizado por el hecho de que la bancada (6) cuenta en su parte superior con una superficie enrejada (28) apta para depositar el producto y permitir que escurra el aceite sobrante, incorporando, ademas, un brazo neumatico (29) de corte; y porque dicho brazo (29) esta constituido por una cuchilla circular (30) fijada articuladamente mediante un soporte (31) a un lateral de la mencionada bancada (6), contando dicho brazo (29) con las necesarias medidas de seguridad y proteccion estipulada para este tipo de herramientas, siendo accionado mediante un pedal (32), pudiendo asimismo y opcionalmente funcionar de forma totalmente automatizada.



Machine translation: 1. Dosing machine for the realization of food, especially churros, clubs and the like, the type comprising a fryer (5) within which incorporates a boiler by gas or electricity, heat a container (12) intended to contain the oil in freira which the dough for obtaining the desired product, characterized in that it comprises a machined metering pump (2) which runs in a spiral or linear, which is suitably arranged on a tire support (3), with a stainless steel hopper (4) for feeding the product mass, and an adjacent bed (6) for draining and cut, in which the tire engages a cutting arm (29), in that the hopper (4) is situated on a support structure (7), with a box (8) inside which is a worm with an outlet (9) which engages a flexible driving food use (10) in whose opposite end has with a fast connection (11) capable of being coupled to the metering pump (2), counting also with other pneumatic arm (23) for the extraction and transfer of the product and fried with a protective front grill (33) that optionally, and driven, like the other elements by electric motor and cable connection, you can go up and down through the side guides (34) in which it is based, in that these drives are made through a pedals (32) located at its inferior.2. Metering machine for the realization of foodstuffs, especially churros, sticks and the like, according to claim 1, characterized by the fact that the tire support (3) comprises a bar (13) vertically fixed to a pneumatic arm (14) fixed to Fryer chassis (5), with a rotating head (16), operated pneumatically or by motor (17), coupled to said rod (13) by a support (15), which incorporates superiorly a tubular grid (18) to dip the dough into the oil, and below a guide tray (19) 3. Metering machine for the realization of foodstuffs, especially churros, sticks and the like, according to claims 1 and 2, characterized in that the tray (19) presents a recess (20), designed to insert into the nozzle (21) connected to the metering pump (2), and because, in parallel to said drain (20), the tray guide (19) has a toothed rail (22) to facilitate the sliding of the pump (2) in its recorrido.4. Dosing machine for the realization of food, especially churros, clubs and the like, according to claims 1 to 3, characterized in that the pneumatic arm (23) for the extraction and transfer of the product and fried, is a sieve or metal skimmer (24), of dimensions commensurate with the container (12) fixed laterally to a support (25) which in turn, through a union articulada (26) is coupled to a guide (27), allowing a lifting movement to perform the extraction and transfer knob for the product once fried up the adjacent bed (6) 5. Metering machine for the realization of foodstuffs, especially churros, sticks and the like, according to claims 1 to 4, characterized by the fact that the baseplate (6) has in its upper part with a surface grating (28) suitable for depositing the product and allow to drain excess oil, adding, moreover, a pneumatic arm (29) cut, and that said arm (29) is constituted by a circular blade (30) pivotally attached by a bracket (31) to one side of the abovementioned bank (6), having said arm (29) with the necessary security and protection stipulated for such tools, being operated by a pedal (32), and optionally can also run fully automatically.

Probable Assignee: MARTINEZ JIMENEZ FCO ANDRES

Earliest Publication Date: 20080401

77) Family number: 49612965 (US2013004629A)

SINGLE CUP BREWER

Abstract: Source: US2013004629A A beverage making apparatus including a housing containing a water system. The water system includes a heated water reservoir and a pour-in basin for receiving water. The pour-in basin is connected to a water pump which pumps water from the basin to the heated water reservoir. Water from the heated water reservoir is moved to a spray head for dispensing to a beverage brewing substance retained in either at least one of a pod format or a cartridge format. A pair of conductance probes are contained in the fill basin to indicate the status of water in the fill basin. The brewer is designed for use with multiple beverage making substance holders so that multiple beverage substance formats can be used with the brewer.

Probable Assignee: BUNN O MATIC CORP

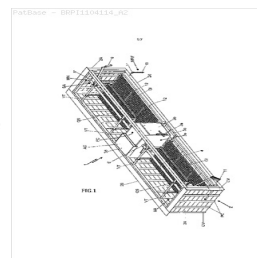
Earliest Publication Date: 20110922



78) Family number: 60174606 (BRPI1104114A)

APERFEICOAMENTOS INTRODUZIDOS EM MODULO DE CHURRASQUEIRA IMPROVEMENTS INTRODUCED MODULE IN BARBECUE (MACHINE TRANSLATION)

Abstract: Source: BRPI1104114A 1 RESUMO "APERFEICOAMENTOS INTRODUIZIDOS EM MODULO DE CHURRASQUEIRA", mais precisamente trata-se de modulo de churrasqueira (1) cujas caracteristicas construtivas padronizam e 5 otimizam a instalacao da mesma, principalmente, em estabelecimentos comerciais, alem de promover melhorias na coccao dos alimentos; dito modulo churrasqueira (1) e conformado por uma armacao estrutural (2) de formato retangular alongado onde e instalada uma fornalha central (FC) e pelo menos um par de grelhas inferiores (GI) providas de sistemas io de alavancas (SA) para a movimentacao vertical (MV), enquanto que as grelhas superiores (GS) sao instaladas por meio de ganchos de suspensao (GP) em varoes transversais (VT) montados na referida armacao estrutural (2); as paredes laterais (2A) e parede posterior (2B) da armacao estrutural (2) sao conformadas por um conjunto de perfis is verticais (PC) de secao em "H" espacados entre si e cantoneiras (CV) de secao em "C" montadas em cada aresta da armacao (2), sendo que a conjugacao dos referidos perfis verticais (PC) e cantoneiras (CV) conformam vaos (VA) onde sao montados tijolos (TJ) do tipo refratarios; na porcao central da base (2c) da armacao (2) e instalada a fornalha 20 central (FC), sendo que em cada porcao lateral da fornalha central (FC) sao instalados sistemas de alavancas (SA) das grelhas inferiores (GI); cada grelha inferior (GI) e grelha superior (GS) da churrasqueira (1) preve de forma contigua calhas captadoras (12) de gordura dos alimentos em coccao e sao configuradas por multiplas canaletas (13) de secao em "V". 1 SUMMARY "improvements made IN BARBECUE MODULE", more precisely it is barbecue module (1) whose constructive characteristics standardize and 5 optimize the installation of the same, mainly in shops, in addition to promoting improvements in cooking food; said grill module (1) and formed by a structural frame (2) of elongated rectangular central furnace where and installed (FC) and at least one pair of lower grids (GI) provided io lever systems (SA) for vertical movement (MV), while the upper frames (GS) are installed by means of suspension hooks (GP) in transverse rods (VT) mounted on said structural frame (2); the side walls (2A) and rear wall (2B) of the structural frame (2) are shaped by a set of vertical is profiles (PC) section "H" spaced apart and angle (HP) section "C" mounted on each edge of armacao (2), and the conjugation of these vertical profiles (PC) and angles (CV) conform spans (VA) which are mounted bricks (TJ) of refractory type; In the central portion of the base (2c) of the frame (2) and installed to 20 core furnace (FC), and each portion side of the central furnace (FC) levers systems are installed (SA) of the lower grid (GI); each lower grid (GI) and upper grille (GS) of the grill (1) foresees in order contiguous obtainers rails (12) of fat from food in cooking and are configured for multiple channels (13) section in "V".



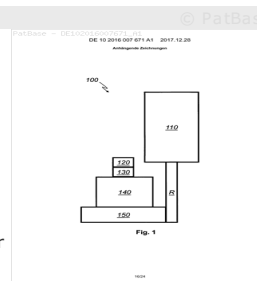
Probable Assignee: POBRE JUAN RESTAURANTE GRILL LTDA

Earliest Publication Date: 20150811

79) Family number: 68051100 (DE102016007671A1)

TRAGBARE GRILLVORRICHTUNG PORTABLE BARBECUE DEVICE (MACHINE TRANSLATION)

Abstract: Source: DE102016007671A1 Die Erfindung betrifft eine Tragbare Grillvorrichtung (100) mit zumindest einer im Wesentlichen vertikal ausgerichteten, flachenartigen Waermequelle (110), zumindest einem vor der Waermequelle (110) angeordneten Grillguttraeger (120), zumindest einer Antriebseinheit (130) zur Rotation des zumindest einen Grillguttraegers (120) um eine im Wesentlichen vertikale Achse und einer Energieversorgung (140) zur Versorgung der Antriebseinheit (130) mit der fuer ihren Betrieb notwendigen Energie. Die tragbare Grillvorrichtung (100) umfasst zumindest eine Verstelleinheit (150), die dazu ausgelegt ist, einen Abstand zwischen der zumindest einen Waermequelle (110) und dem zumindest einen Grillguttraeger (120) waehrend des Betriebs der Grillvorrichtung (100) stufenlos zu verstellen. The invention relates to a portable barbecue device (100) having at least one substantially vertically-oriented, surface like heat source (110), at least one before the heat source (110) (120), at least one carrier arranged food drive unit (130) for the rotation of the at least one food carrier (120) about a substantially vertical axis and a power supply (140) for supplying the drive unit (130) with the energy required for their operation. The portable barbecue device (100) comprises at least an adjusting unit (150), which is configured to provide a distance between the at least one heat source (110) and the at least one food carrier (120) during the operation of the grille device (100) is continuously.



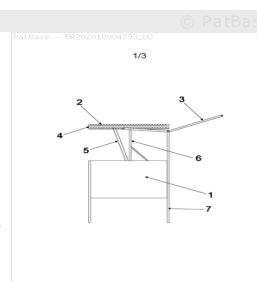
Probable Assignee: WINNINGER FERIENINSEL THOMAS LANGE E K

Earliest Publication Date: 20171228

80) Family number: 76063687 (BR202018004793U)

APERFEICOAMENTO INTRODUIZIDO EM CHURRASQUEIRA ARTICULADA HINGED BARBECUE MYOGLOBIN (MACHINE TRANSLATION)

Abstract: Source: BR202018004793U RESUMO APERFEICOAMENTO INTRODUIZIDO EM CHURRASQUEIRA ARTICULADA O presente pedido de patente de Modelo de Utilidade, caracterizado essencialmente por um aperfeicoamento introduzido em churrasqueira articulada, portatil e de uso residencial, cuja dupla funcao em assar e grelhar carnes e alimentos, por meio da articulacao da grelha em ate 180 graus para ambos os lados, assando e grelhando os alimentos de maneira uniforme; composto por: chapa galvanizada (1) com apoios de sustentacao (7); grelha dupla articulada (2) fixadas por meio de dobradicas; braco mecanico manual (3), facilitando a sua articulacao; dobradica (4), a qual ira gerar a abertura da grelha (2) para colocar/retirar o alimento; base articulada (5), responsavel pela articulacao do produto em 180 graus para ambos os lados; apoio limitador fixo (6), o qual ira delimitar o giro em 180 graus da grelha (2); o manejo da gralha (2), sera operado por meio do braco mecanico manual (3), em conjunto com a base articulada (5), isto porque, o movimento do braco mecanico (3), para baixo ou para cima, invariavelmente, provocara o movimento giratorio da gralha (2), com principio de pendulo, de 0 graus a 180 graus graus, e que por sua vez, acionara o movimento da base articulada (5), para frente ou para tras. Peticao 870180130107, de 14/09/2018, pag. 6/16 Grill PIVOTABLY MYOGLOBIN present utility model, wherein essentially by a portable articulated barbecue myoglobin and residential use, whose double function in baking and grilling meats and foods, via hinge of the grid up to 180 degrees degrees for both sides milk, cream and grilling food, in a uniform manner; (1 composed of: galvanized metal plate (7) with articulated bearing mounts (2); double grid) fixed by hinges; mechanical arm manual (3), facilitating its hinge joint; (4), which will generate the grill opening (2) for placing/remove the food; (5), responsible by articulating hinged base product in 180 degrees to both sides; Fixed restrictor (6) that will delimit spinning at 180 degrees of the grille (2); (2) management of the typo, will be operated by manual mechanical arm (3), in conjunction with (5) because hinged, movement of the mechanical arm (3), shift downward or upward, invariably will cause pivotal movement of (2), with principle of pendulum typo of 0 degrees to 180 degrees degrees, and which in turn trigger movement of hinged base (5), forward or rearward. The 870180130107 repeat 14/09/2018, pp. The



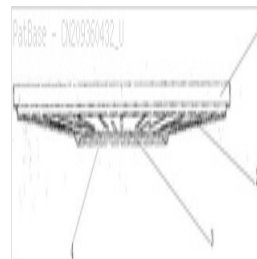
Probable Assignee: LENALDO DE OLIVEIRA

Earliest Publication Date: 20191001

81) Family number: 75805219 (CN209360432U)

OIL COLLECTION TYPE BARBECUE GRILL ASSEMBLY

Abstract: Source: CN209360432U The utility model discloses an oil collection type barbecue grill assembly which comprises a fence, a grill plate and a base plate. Wherein the grating disc is in a disc shape, a plurality of strip-shaped through holes are formed in the grating disc, the plurality of strip-shaped through holes are distributed in a circular array mode, and the fence ring is arranged on the periphery of the grating disc; a base plate is arranged in the center of the grid plate, and the grid plate is in a cone shape which gradually descends to the base plate from the periphery of the circumference of the grid plate; the grating disc is arranged to be in a cone shape which gradually descends to the bottom disc from the circumferential periphery of the grating disc. A plurality of strip-shaped through holes are reformed in the grid disc; during barbecuing, food covers the grid tray with the strip-shaped through holes to be barbecued, the food brushed on the food is gathered to the bottom tray along with the conical structure of the grid tray and cannot directly drop into a stove or a burning appliance arranged below the grid tray, the barbecuing process is safer, and the barbecuing taste of the food is also ensured.



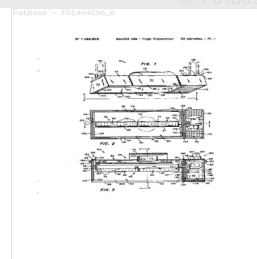
Probable Assignee: WEILISI MOULD TECH SHANGHAI CO LTD

Earliest Publication Date: 20190910

82) Family number: 21902888 (FR1464696A)

APPAREIL DE CHAUFFAGE HEATING APPLIANCE (MACHINE TRANSLATION)

Abstract: Source: FR1464696A (Claim 1) RESUmE L'invention a pour objet un appareil de chauffage a infrarouge remarquable notamment par les caracteristiques suivantes, considerees separement ou en combinaisons 1 Il comprend une enveloppe allongee formant chassis avec une cloison transversale divisant l'enveloppe en deux compartiments, un generateur a infrarouge dans le premier compartiment et une soufflante dans le second compartiment pour alimenter le generateur en air de combustion; 2 L'appareil comprend un dispositif pour alimenter le generateur en combustible, un dispositif pour regler le debit de combustible vers le generateur, et une chambre de melange pour melanger le combustible et l'air fourni par la soufflante avant (entree dans le generateur; 3 Le dispositif pour la commande du debit de combustible et la chambre de melange sont situes dans le second compartiment; 4 Le premier compartiment comporte un cote ouvert et contient un dispositif pour reflechir les radiations emises par le generateur a travers le cote ouvert du compartiment; 5 Le cote ouvert du premier compartiment est muni d'une grille formee d'elements plats, minces s'intersectant pour diviser l'extremite ouverte en un grand nombre de petites ouvertures s'etendant d'une facon generale perpendiculairement au plan du cote ouvert pour empecher que les courants d'air ou le vent passant devant (ouverture refroidissent le generateur a infrarouge, sans gener de facon appreciable l'emission d'energie infrarouge a par tir du generateur; 60 L'appareil comprend une enveloppe formant chassis separee en deux compartiments par une cloison, au moins un generateur a infrarouge dans le premier compartiment et un dispositif d'alimentation en melange combustible dans le second compartiment pour alimenter le generateur en melange de combustible et d'air regle, le generateur comprenant un tube distributeur de melange combustible pour distribuer ce melange sur toute la longueur du generateur et un dispositif pour conduire le melange du tube distributeur a une zone de combustion a cote de l'exterieur du tube distributeur, sur toute la longueur de celui-ci, un element rayonnant sur le cote de la zone de combustion oppose au tube distributeur, cet element etant chauffe a (incandescence par la combustion du melange, et un dispositif d'allumage pour allumer le melange dans la zone de combustion, le premier compartiment ayant un cote ouvert sur toute la longueur du generateur pour la sortie de l'energie infrarouge emise; 7 Le dispositif d'allumage comprend un transformateur haute tension et une bougie a etincelles connectee au secondaire du transformateur, l'inter valle d'eclatement de la bougie etant situe a cote du tube distributeur sur le parcours du melange combustible entre le tube distributeur de la zone de combustion; 8 Le dispositif d'alimentation en melange combustible comprend un conduit d'alimentation avec une vanne, un detecteur de flamme chauffe par la chaleur liberee par la combustion du melange dans la zone de combustion, et un dispositif entre la vanne et le detecteur de flamme repondant au detecteur de flamme en fermant la vanne pour couper le debit de combustible vers le generateur si la temperature du detecteur de flamme ne s'eleve pas a une valeur donnee dans un delai predetermine apres l'ouverture de la vanne ou si la temperature du detecteur de flamme decroit ensuite en dessous de la temperature donnee; 9 Le dispositif d'alimentation en melange combustible comprend une soufflante pour fournir tout l'air necessaire pour la combustion complete du combustible, la soufflante comprenant un dispositif de reglage pour reduire la quantite d'air fourni par la soufflante quand l'appareil est froid et pour augmenter la quantite d'air fourni par la soufflante quand l'appareil atteint une temperature donnee; 10 Le premier compartiment contient deux generateurs a infrarouge cote a cote, les tubes distributeurs des deux generateurs communiquant avec le dispositif d'alimentation en melange combustible; 11 La chambre de melange comporte une sortie pour chaque generateur a infrarouge, la soufflante communiquant avec la chambre de melange sur le cote oppose a celui des deux sorties et entre les axes des deux sorties, le dispositif d'alimentation comportant un conduit d'alimentation et un distributeur a deux branches fixe a l'extremite du conduit et comportant deux ajutages opposes pour diriger le combustible en deux courants vers les parois opposees de la chambre de melange; 12 Le dispositif reflecteur situe dans le chassis entoure sensiblement les parties de la grille rayonnante emettant l'energie infrarouge pour diriger les radiations a travers le cote ouvert du chassis, les elements reflecteurs etant espaces des parois du chassis formant le premier compartiment pour etablir un passage pour l'air de refroidissement entre les elements reflecteurs et le chassis et a cote du tube distributeur; 13 Le chassis comporte un raccord d'echappement ou de cheminee pour le passage du produit de combustion du generateur a infrarouge; 14 Le conduit d'alimentation en melange combustible-air traverse la cloison du chassis et supporte une extremite du generateur a infrarouge, et un dispositif support fixe l'autre extremite du generateur au chassis; 15 Le second compartiment contient le dispositif de melange d'alimentation en combustible ou en air et le dispositif de commande, et un ecran thermique est monte dans le premier compartiment entre le dispositif reflecteur et la cloison pour isoler les organes situes dans le second compartiment de la chaleur engendree par le generateur a infrarouge; 16 Le dispositif d'allumage comporte une bougie a etincelles montee a cote de la surface exterieure d'une extremite du tube distributeur; 17 Le dispositif d'alimentation en melange de combustible et d'air comprend une soufflante et un dispositif pour faire varier le rapport entre le combustible et l'air du melange comprenant un papillon de reglage monte dans l'orifice de refoulement de la soufflante et pouvant etre place entre une position de debit minimal et une position de debit maximal, un element bimetallic monte pour etre chauffe par le generateur a infrarouge et comportant une partie passant d'une premiere position a une seconde position quand la temperature du generateur augmente, et un dispositif de transmission metallique entre l'element bimetallic et le papillon pour faire passer celui-ci de sa position de debit minimal vers sa position de debit maximal quand l'element bimetallic passe de sa premiere position a sa seconde position, de facon a etablir un rapport eleve du combustible a l'air pour former un melange riche quand l'appareil est froid et un rapport plus faible du combustible a l'air pour former un melange plus pauvre afin d'obtenir le rendement maximal de combustion et une combustion complete du melange quand le generateur a infrarouge atteint la temperature de fonctionnement normal; 18 Un dispositif empeche les courants d'air de refroidir les organes emetteurs de radiations infrarouges du generateur a infrarouge ou de perturber la combustion dans le generateur, en assurant l'allumage en presence de courants d'air ou de vent, ce dispositif comprenant une grille formee de bandes croisees en matiere resistant a la chaleur et etablissant un grand nombre de passages, la grille etant situee dans le cote ouvert du chassis, le champ des bandes etant oriente vers les surfaces rayonnantes du generateur de facon a reduire la resistance presentee par la grille au passage des radiations infrarouges a travers l'ouverture du chassis; 19 Un dispositif supporte de facon coulissante le generateur a infrarouge dans le chassis et un couvercle est place devant l'extremite ouverte du chassis et maintient le generateur dans une position fixe par rapport au chassis, le couvercle pouvant etre amene a une position d'ouverture pour permettre d'enlever le generateur du chassis en le faisant glisser a travers l'extremite ouverte; 20 Le chassis allonge comporte une cloison divisant le chassis en deux compartiments, le premier compartiment contenant au moins un generateur a infrarouge et le second compartiment contenant le dispositif de commande du generateur a infrarouge, un dispositif formant un ecran pour proteger le dispositif de commande contre la chaleur emise par le generateur ou les generateurs, ce dispositif etant situe dans le premier compartiment entre la cloison et le generateur ou les generateurs; 21 Deux generateurs a infrarouge sont montes dans le premier compartiment, chaque generateur comportant un tube distributeur de melange combustible s'etendant a peu pres sur la longueur du compartiment,



une extremite du tube distributeur etant situee a proximite de la cloison, la chambre de melange etant situee dans le second compartiment et comportant deux conduits independants d'alimentation en melange combustible traversant la cloison de la chambre de melange pour penetrer a l'interieur des tubes distributeurs; 22 La chambre de melange comporte deux parois laterales opposees, la premiere paroi laterale comportant deux conduits d'alimentation en melange combustible et la soufflante communiquant avec la chambre de melange a travers la seconde paroi laterale, le conduit d'alimentation en combustible s'etendant a l'interieur de la chambre de melange et comportant deux elements avec des orifices orientes pour diriger le combustible dans la chambre de melange dans des directions opposees dans le courant d'air des combustions envoye dans la chambre par la soufflante; 23 La bougie d'allumage est montee a travers la cloison et s'etend dans l'espace de combustion forme entre la grille rayonnante et le tube distributeur de melange combustible du generateur a infrarouge ou du premier generateur a infrarouge du premier compartiment; 24 Un detecteur de flamme comprenant un tube capillaire s'etend du second compartiment a travers la cloison parallelement a la grille rayonnante du second generateur a infrarouge du premier compartiment; 25 La grille rayonnante situee a cote du tube capillaire comporte un certain nombre d'ouvertures sans obstructions sensiblement sur toute la longueur du tube capillaire pour augmenter la sensibilite de celui-ci a la presence et a l'absence de combustion dans la zone situee du cote oppose de la grille par rapport au tube capillaire, et un ecran en gouttiere entoure le tube capillaire du cote oppose a la grille pour empecher le refroidissement du tube capillaire par le courant d'air; 26 L'appareil comprend deux generateurs a infrarouge montes cote a cote dans le premier compartiment d'un point voisin d'une extremite du compartiment a un point voisin de l'autre extremite du compartiment, chaque generateur comprenant un tube distributeur ayant sensiblement la longueur du generateur et une grille rayonnante ayant sensiblement la longueur du generateur et fixee sur le cote inferieur du tube distributeur, et deux elements reflecteurs fixes sur les cotes opposes du tube distributeur, chacun des elements ayant une partie reflechissante sensiblement horizontale a peu pres sur toute la longueur du generateur, les parties reflechissantes etant au-dessus des grilles et depassant lateralement, les elements reflecteurs voisins fixes aux tubes distributeurs des deux generateurs etant espaces pour etablir un passage pour les produits de combustion; 27 Des reflecteurs ayant sensiblement la longueur du compartiment des generateurs a infrarouge sont fixes au chassis, ces reflecteurs s'etendant d'une position voisine de l'extremite ouverte du chassis jusqu'a une position au-dessus des elements reflecteurs fixes au tube distributeur des generateurs, les reflecteurs etant espaces du chassis pour former des passages pour l'air de refroidissement et etant espaces des bords des elements reflecteurs fixes sur les cotes exterieurs des tubes distributeurs pour former des passages pour les produits de combustion entre les reflecteurs du chassis et les elements reflecteurs des generateurs; 28 L'extremite du generateur a infrarouge situee du cote de la cloison est supportee par le conduit d'alimentation en combustible et l'extremite opposee du generateur est supportee par un dispositif comprenant un etrier fixe dans le premier compartiment a une partie du chassis et comportant une ouverture orientee vers l'extremite pouvant etre ouverte du compartiment et une equerre sur le generateur comportant une partie pouvant glisser dans l'ouverture de l'etrier, le compartiment comportant un couvercle amovible muni d'une butee venant porter sur l'extremite du generateur pour maintenir l'equerre engagee dans l'ouverture de l'etrier; 29 L'appareil comprend une enveloppe formant chassis pouvant etre fixee dans une position sensiblement horizontale comportant un compartiment contenant au moins un generateur a infrarouge a combustion, le chassis comportant un raccord d'echappement ou de cheminee traversant la paroi superieure du chassis sensiblement au milieu du compartiment pour les generateurs, et un element en forme generale de gouttiere a extremite ouverte fixe a l'exterieur du chassis au-dessus du raccord; 30 Un second raccord de cheminee est fixe a travers l'element en gouttiere dans l'alignement vertical du premier raccord, et un ecran est fixe sur le cote interieur de l'element en gouttiere entre les extremités des deux raccords; 31 Le chassis comporte une ouverture pour la sortie des produits de combustion sur le cote oppose au cote ouvert du chassis, la grille ou les grilles rayonnantes et les reflecteurs etant des elements perforés pour permettre le passage des produits de combustion de la zone ou des zones de combustion de la grille ou des grilles rayonnantes a travers la grille ou les grilles et les reflecteurs vers l'ouverture d'echappement du chassis; 32 Le premier compartiment contient au moins deux generateurs a infrarouge cote a cote, les grilles des generateurs comportant des ouvertures dans les parties les plus rapprochees des grilles de facon que les produits de combustion sortant de la zone de combustion de chaque grille a travers les ouvertures viennent frapper et balayer la grille voisine, la combustion dans chaque generateur assurant ainsi l'elevation de la temperature de la grille rayonnante et l'emission de chaleur de la grille de l'autre generateur sans augmentation du taux de consommation du melange combustible; 33 L'espace compris entre les grilles rayonnantes voisines des generateurs a infrarouge voisins ne comporte aucune obstruction de facon qu'il s'etablisse un echange mutuel d'energie infrarouge entre les grilles pour leur maintien sensiblement a la meme temperature; 34 La bougie d'allumage comprend un isolateur en matiere ceramique fixe a travers la cloison separant les deux compartiments, une premiere electrode en forme de tige traversant l'isolateur pour arriver dans l'espace de combustion entre le tube distributeur et la grille rayonnante, l'autre extremite de la premiere electrode depassant dans le second compartiment pour la connexion a une source d'alimentation electrique, une seconde electrode en epingle a cheveux fixee a l'isolateur et comportant deux branches symetriques sur les cotes opposes de la premiere electrode et une partie intermediaire pasant devant l'extremite de la premiere electrode pour former l'intervalle d'eclatement, et un dispositif pour etablir un contact metal sur metal entre la seconde electrode et la cloison de facon que la seconde electrode soit a la masse; 35 La bougie d'allumage comprend une piece en matiere ceramique avec un passage central, une premiere electrode en forme de tige traversant ce passage central et depassant aux deux extremités de la piece en matiere ceramique, et une seconde electrode en epingle a cheveux avec deux branches symetriques sur les cotes opposes de la premiere electrode et une partie raccordant les deux branches et passant devant une extremite de la premiere electrode pour former l'intervalle d'eclatement; 36 Les extremités libres des branches de la seconde electrode sont fixees a une plaquette metallique entourant la piece en matiere ceramique pour connecter a la masse la seconde electrode; 37 La piece en matiere ceramique comporte une rainure peripherique et un dispositif de fixation est engage dans la rainure et est fixe a la plaquette metallique pour positionner la seconde electrode par rapport a la piece en matiere ceramique; 38 Le passage central de la piece en matiere ceramique comporte un epaulement, un premier element de fixation est fixe sur la premiere electrode pour porter sur l'epaulement et un ecrou est visse a l'extremite de la premiere electrode de facon a porter sur l'extremite de la piece en matiere ceramique pour appliquer la premiere piece de fixation contre l'epaulement a l'interieur de la piece en matiere ceramique de facon a positionner la premiere electrode par rapport a la piece en matiere ceramique en fonction de la position du premier element de fixation sur la premiere electrode. (Claim 1) Summary The invention relates to a heat-chauf device has remarkable infrared including the following features, regarded separately or in combinations 1 It includes a shell forming elongated frame with a partition wall dividing the device into two compartments, an infrared generator was in the first compartment and a blower in the second compartment for all crease the combustion air generator; 2 The apparatus comprises a device for all crease the generator fuel, a device to adjust the fuel flow to the generator, and a mixture of fuel and air provided by the front fan (entry into the generator); 3 the device for controlling the fuel flow and the mixing chamber are located in the second compartment; 4 The first compartment has an open side and contains a device for reflecting the radiation issued by the generator through the open side compartment; 5 the open side of the first compartment has a grid of elements FORMED flat, thin intersecting dividing the first compartment into a large number of small openings extending a general way perpendicular to the plane of the dimension open to prevent the drafts or wind passing (cooled feels opening the generator has infrared without appreciable way interfere with the infrared energy has shot issuance generator); The apparatus 60 comprises a shell forming separate frame into two compartments by a sound cloi-, at least one infrared generator was in the first compartment and a device for feeding the fuel mixture in the second compartment, to feed the generator in mixing of fuel and air rule, the generator taking a combustion mixture able dispenser tube to distribute this mixture over the entire length of the generator and a device for driving the mixture of fuel and air into the generator has an area of combustion next to the outside of the distributor tube, the entire length of it, a radiating element on the side of the combustion zone opposes the distributor tube, this element being heated by a glow from burning fuel and an ignition device for igniting the fuel mixture in the combustion zone the first compartment having an open side over the entire length of the generator to output the infrared energy emitted; 7 The ignition device includes a high voltage transformer and a candle sparks connected to the secondary of the transformer, inter valve bursting of the spark plug being located beside the distributor tube in the path of fuel mixture between the distributor tube of the combustion zone; 8 The feeder of fuel mixture comprises a supply line with a valve, a flame detector heated by the heat liberated by the combustion of the mixture in the combustion zone, and means between the valve and the detector answering flame to flame detector by closing the valve to the neck of fuel flow to the generator flame detector if the temperature does not rise to a given value in a predetermined delay after the opening of the valve or the flame detector of the temperature then

decreases below the given temperature; 9 The supply fuel mixture com device includes a blower to provide all the necessary air for complete combustion of the fuel com, blower including a tuning device to reduce the amount of air supplied by the fan when the unit is cold and aug crease the amount of air supplied by the fan when the unit reaches a given temperature; 10 The first compartment contains two generators has infrared side by side, the tubes of the two generators saying vending contacting the feeder fuel material mixture; The mixing chamber 11 has an output for each generator has infrared blower communicating with the mixing chamber on the side opposite to that of the two outputs and between the axes of the two outputs, the power device comprising a supply line and say tributor has two branches fixed at the tip of the conduit and having two opposing nozzles to direct the fuel into two streams to opposite walls of the mixing chamber; The reflector device 12 located in the frame substantially surrounds parts of the grid nant ray emitting infrared energy to direct radiation through the open side of the chassis, the reflectors Elements being areas of the chassis walls forming the first compartment eta lish a passage for cooling air between the reflectors Elements and frame and beside the dispensing tube; The chassis 13 has a connection to exhaust or chemInee for passing the combustion product of the infrared generator has; 14 The mixture in combustible air supply duct passes through the wall of the chassis and upper door one end of the generator has infrared, and a fixed support device the other end of the generator to the chassis; The second compartment 15 contains the provision feed mixture tif fuel or air and the control device, and a heat shield is mounted Inthe first compartment between the reflector device and the partition to iso l organs situated in the second compartment heat engendered by the generator has infrared; 16 The ignition device comprises a spark plug has montee next to the outer surface of one end of the dispensing tube; 17 in fuel and air mixture supply device comprises a fan and a device for varying the ratio between the fuel and air of the mixture comprising a pa pillon of adjustment rises in the port delivers ment of the and blower can be placed between a minimum flow position and a maximum flow position, a bimetallic element to be heated up by the generator has infrared and having a portion passing a first posi tion has a second position when the temperature of the generator increases, and a metal trans mission system between the bimetallic element and the butterfly to get it to its minimum flow position to its maximum flow position when the bimetallic element moves from its first position to its second position, a way of establishing a high ratio of fuel to air to sea for a rich mixture when the unit is cold and a lower ratio of fuel to air to form a leaner mixture to obtain the maximum return com combustion and combustion of the mixture full when the generator has reached the temperature of infrared works ment normal; 18 A device prevents air currents to cool the infra red radiation emitters bodies generator has infrared or ctrl ber Inthe combustion generator, ensuring the ignition in the presence of air currents or wind, the device comprising a grid of crossed strips in material resistant to heat and it established a large number of passages, the grid being situated in the open side of the frame, the field strips being oriented towards the nantes radius surfaces of the generator of way to reduce the resis tance presented by the gate to the passage of infrared radia tions through the opening of the chassis; 19 A device supports a sliding way the infrared generator is in the frame and a cover is placed in front of the open end of the frame and keeps the generator in a posi tion fixed relative to the frame, the louse Vant be cover brings a position opening to allow the generator to remove the chassis by sliding through the open extremity; 20 The elongated frame includes a divisional partition sant the frame into two compartments, the first compartment containing at least one generator has infrared and the second compartment containing the control device of the generator infrared has a device forming a screen to protect the control device against the heat emitted by the generator or generators, this device being located in the first compartment between the bulkhead and the generator or generators; 21 Two infrared generators are mounted in a first compartment, each generator with a fuel mixture com distributor tube extending roughly along the length of the compartment, one end of the distributor tube being situated close to the wall, the chamber mixture being situated in the second compartment ment and having two independent supply conduits fuel mixture through the septum of the mixing chamber to penetrate in the interior of distribution pipes; The mixing chamber 22 has two opposite side walls, the first lateral wall com carrying two supply ducts and fuel mixture blower communicating with the mixing chamber through the second lateral wall, the fuel supply line s' extending on the inside of the mixing chamber and having two Elements with the orien your orifices to direct fuel into the mixing chamber in opposite directions in the air stream sent from combustions in the cham ber by the fan; 23 The spark plug is montee through the partition and extends into the combustion space formed between the radiant tube grid and the distri scorer fuel mixture of the generator has infrared or infrared first generator was the first compartment; 24 A flame detector including a capillary tube extends from the second compartment through the wall parallel to the grillRadiant infrared e of the second generator was the first compar-fund; 25 Radiant grill situated beside the capillary tube has a number of openings unobstructed substantially the entire length of the capillary tube to increase the sensitivity thereof to the presence and the absence of combus tion situated in the area on the opposite side of the grid relative to the capillary tube, and a screen in gutter surrounding the capillary tube on the opposite side to the gate to prevent the cooling of the tube -apilaire by the air stream; 26 The machine has two generators has infrared mounted side by side in the first com partment of a point close to one end of the compartment has a point near the other end of the compartment, each generator comprising a dispenser tube having substantially the generator of the length and radiant grid having sen cantly length ten generator and fixed to the lower side of the distribution pipe, and two ele ments fixed reflectors on opposite sides of the dispenser tube, each of the elements having a substantially horizontal Reflective part roughly the entire length of the generator, the parties re bender being above the railings and Depas health laterally, the Elements reflectors fixed neighbors distributors tubes of the two generators being spaces to establish a path for the pro combustion products; The reflectors 27 having substantially the Ion- LATIONS of generators compartment has infrared are fixed to the chassis, these reflectors are andin ing from a position adjacent the open end of the frame to a position above the ele ments reflectors fixed to the distributor tube generators, the reflectors being Chassis spaces to form passages for air to cool ment and spaces being re edges of fixed reflectors Elements on the external dimensions of the tubes say tributors to form passages for pro combustion products between the reflectors and reflectors chas sis Elements of generators; 2E The extremity of the generator has infrared situated on the side of the wall is supported by the fuel supply line and the extremity oppo see the generator is borne by a device comprising a fixed caliper in the first com partment is part of frame and having an opening oriented towards the extremity may be open compartment and a equerre the generator having a portion slidably in the opening of the caliper, the com compartment with a removable cover with a cover from buee the extremity of the generator to maintain equerre instituted in the opening of the caliper; 29 The apparatus comprises a casing forming frame can be fixed in a sensi ably horizontal position having a compartment containing at least one generator has a combustion infrared, the chassis comprising a connector e exhaust or chimney through the upper wall of the chassis substantially the middle compartment for generators, and an element in the general shape of a gutter open extremity fixed on the outside of the frame above the connector; 30 A second fitting fireplace is fixed through the element in the gutter in alignment tical worm of the first connector, and a screen is fixed on the inner side of the element in the gutter between the two ends of the fittings; 31 The frame has an opening for the exit of combustion products on the op side pose the open side of the frame, the grid or the radiating and reflectors grids being of Perforated Elements for the passage of the zone of combustion products or combustion zones of the grid or grids radiating through the grid or grids and reflectors to the chassis or Verture exhaust; 32 The first compartment contains at least two generators has infrared side by side, the gates of generators with openings in the most closely spaced portions of grid way that the combustion products exiting from each grid combustion zone through the OPEN tures come knocking and sweep the adjacent grid, combustion in each generator ensuring the elevation of the temperature of the grid nant radius and the heat release of the gate of the other generator without increasing the rate of con sumption of the mixture combustible; 33 The space between the neighboring radiating gates of generators has infrared neighbors has no obstruction way that eta blisse a mutual exchange of infrared energy between the grids for maintaining them substantially at the same temperature; 34 The spark plug includes an insulator fixed ceramic material through the partition sepa rant the two compartments, a first electrode rod shaped through the insulator to arrive in the combustion chamber between the tube distri buteHeart and radiant grid, the other end of the first electrode exceeding the second com partment to connect a source of ALIMEN tation Electric, a second electrode in a hairpin hair fixed at the insulator and having two symmetrical branches on opposite sides of the first electrode and an intermediate portion not sant front extremity of the first electrode to form the interval of bursting, and say to establish a positive metal contact of metal between the second electrode and the partition way that the second electrode is a ground; 35 The spark plug includes a room in ceramic material with a central passage, a first electrode rod shaped through the central passage and exceeding at both ends of the room ceramic material, and a second electrode in a hairpin with two hair symmetric legs on opposite sides of the first electrode and a portion connecting the two arms and passing one end of the first electrode to form the range of bursting; 36 The free ends of the branches of the count electrode are fixed to a metal plate surrounding the ether room ceramic material to connect to around the second electrode; The 37 pieces in ceramic material has a peripheral groove and

material to connect to ground the second electrode, the 37 pieces in ceramic material has a peripheral groove and a securing device is engaged in the groove and is fixed to the metal plate to position the second electrode with respect to the piece in ceramic material; 38 The central passage of the piece in ceramic material includes a shoulder, a first attachment element is fixed on the first electrode to wear on the shoulder and a nut is screwed at the tip of the first electrode of way to wear on the extremity of the piece in my tierce ceramics to apply the first piece of attachment against the shoulder on the inside of the room ceramic material of a way to position the first electrode with respect to the room ceramic material according to the position of the first fastening element on the first electrode.

Probable Assignee: HUPP CORP

Earliest Publication Date: 19670106

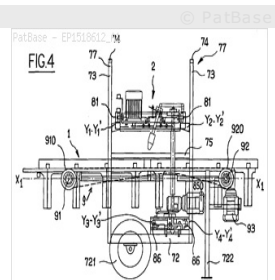
83) Family number: 31774151 (EP1518612B1)

WASHING DEVICE FOR OBJECTS COMPRISING A GRID

Abstract: Source: EP1518612B1 The installation has a frame to support a conveyor (9) and a washing device (2). The device has a jetter with a spray nozzle for a jet of washing liquid. The jetter has inclination units with rectangular plates permitting angular inclination of an output axis of the liquid jet with respect to a vertical line, and rotating units permitting jetter movement between two angular positions at 180 degree to each other. - The jetter is mounted on a carriage such that the washing liquid jet is oriented in the direction of a cattle grid (1) to be cleaned.

Probable Assignee: MORVAN JEAN MARC

Earliest Publication Date: 20050330



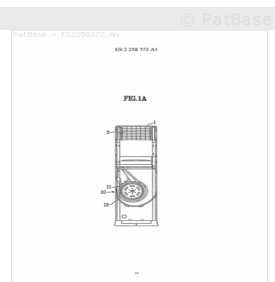
84) Family number: 33301565 (ES2258372A)

INDOOR UNIT OF PACKAGED AIR CONDITIONER HAS CROSS-FLOW FAN IN LOWER PART OF CABINET TO FORCE AIR TOWARD EVAPORATOR

Abstract: The cabinet has a lower inlet grille (102) and an upper outlet grille (103), to provide air circulation. An evaporator (104) is located on the slant in the upper part of the cabinet to cool the air by evaporation of a refrigerant. A cross-flow fan (110) in the lower part of the cabinet forces air toward the evaporator, where inhaled and exhaled indoor air coexist at the same height. A separator between the top of the fan and the evaporator prevent the inhaled and exhaled air from mixing. An independent claim is also included for.

Probable Assignee: LG ELECTRONICS

Earliest Publication Date: 20060816



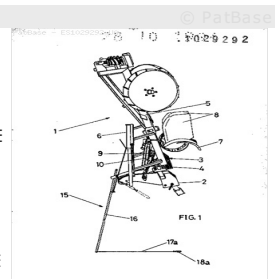
85) Family number: 34634299 (ES1029292Y)

MAQUINA PARA EFECTUAR PLANTACIONES FORESTALES.

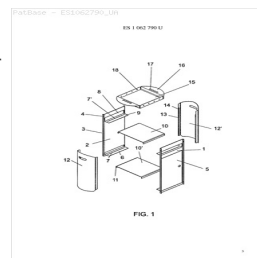
Abstract: Source: ES1029292U MAQUINA PARA EFECTUAR PLANTACIONES FORESTALES; ESPECIALMENTE PINOS, ENCINAS, ROBLES, ETC., QUE SE CARACTERIZA PORQUE PRESENTA UNA PARTE ANTERIOR QUE SE CONECTA AL ENGANCHE DE UN VEHICULO TRACTOR Y A CUYA PARTE ANTERIOR SE ACOPLA GIRATORIAMENTE EL EXTREMO DE UNA ESTRUCTURA RESISTENTE DE LA MAQUINA CONSTITUIDA POR LARGUEROS A LOS QUE SE FIJA UNA PARRILLA METALICA DISPUESTA EN UN PLANO SUPERIOR Y PORTADORA DE LAS PLANTAS, PROXIMA A LA CUAL LA ESTRUCTURA TIENE UNA REJA QUE ROTURA EL TERRENO Y QUE ESTA DOTADA DE ALETAS DIVERGENTES QUE SEPARAN LA TIERRA Y FAVORECEN LA PLANTACION, MIENTRAS QUE DOS RUEDAS TRASERAS ENFRENTADAS E INCLINADAS HACIA EL TERRENO EFECTUAN LA COMPACTACION DE LA TIERRA CERRANDO EL SURCO UNA VEZ EFECTUADA LA PLANTACION; LA MAQUINA PRESENTA UN PRIMER DISPOSITIVO QUE MIDE LA SEPARACION ENTRE FILAS DE PLANTAS DOTADO DE UNA BARRA TELESCOPICA POSICIONADA EN LA ESTRUCTURA DE LA MAQUINA Y QUE SE EXTIENDE LATERALMENTE PRESENTANDO EN SU EXTREMO LIBRE UNA CADENA V UN PESO; MIENTRAS QUEUN SEGUNDO DISPOSITIVO DE LA PLANTA REGULA LA DISTANCIA ENTRE CADA DOS PLANTAS DE UNA MISMA HILERA PARA LO CUAL LA ESTRUCTURA ESTA DOTADA DE UNA RUEDA QUE GIRA SOBRE EL TERRENO Y SU GIRO SE TRANSMITE A UN EJE SUPERIOR POR MEDIO DE UNA TRANSMISION DE CADENA CON UN TENSOR, VARIANDO EL NUMERO DE VUELTAS DEL EJE POR MEDIO DE UN TREN O CONO DE ENGRANAJES Y CON ELLO EL GIRO DE UN PESO QUE CUELGA DEL EJE Y CUYO PESO GOLPEA UNA CHAPA CONSTITUYENDO UN AVISADOR ACUSTICO PARA SABER CUANDO SE DEBE DE EFECTUARSE LA PLANTACION POR UNIDAD. Machine for making forest plantations; especially pines, holm oak, oak, etc., WHICH ARE CHARACTERIZED IN THAT A FRONT PART WHICH IS CONNECTED TO THE HITCH OF A TRACTOR AND WHOSE FRONT PART IS COUPLED ROTATABLY TO THE END OF A RESISTANT STRUCTURE CONSTITUTED BY STRINGERS OF THE MACHINE TO WHICH IT IS FIXED A METAL GRID DISPOSED IN AN UPPER PLANE AND CARRIER OF THE PLANTS, NEXT TO WHICH THE STRUCTURE HAS A GRID THAT BREAK THE GROUND AND WHICH IS PROVIDED WITH FINS THAT SEPARATE THE EARTH AND FAVOR THE PLANTING divergent, WHILE TWO REAR WHEELS facing each other and inclined toward the ground effect the compaction of the ground by closing the furrow AFTER planting; the machine Has A FIRST DEVICE WHICH MEASURES The spacing between rows of plants provided with a telescopic rod POSITIONED IN THE STRUCTURE OF THE MACHINE AND EXTENDING LATERALLY PRESENTING AT ITS FREE END A V A WEIGHT; while QUEUN SECOND DEVICE OF THE PLANT REGULATES THE DISTANCE BETWEEN EACH TWO PLANTS IN A SAME ROW FOR WHICH THE STRUCTURE IS PROVIDED WITH A wheel that rotates ON THE GROUND AND ITS ROTATION IS TRANSMITTED TO AN UPPER SHAFT BY MEANS OF A CHAIN DRIVE WITH A TENSIONER, VARYING THE NUMBER OF TURNS OF THE SHAFT BY MEANS OF A TRAIN OR GEAR CONE AND THUS THE ROTATION OF A WEIGHT HANGING FROM THE Y-axis Whose WEIGHT HITS A PLATE CONSTITUTING A BUZZER FOR KNOW WHEN THEY MUST BE CARRIED OUT THE PLANTING UNIT.

Probable Assignee: VERON DE MEDIO AMBIENTE Y FORE

Earliest Publication Date: 19950501



Abstract: Source: ES1062790U 1. Barbacoa, del tipo de las que estan estructuradas mediante piezas metalicas y constituye un elemento amovible, caracterizada porque esta constituida a partir de dos paneles rectangulares, uno frontal y otro posterior, relacionadas entre si mediante placas distanciadoras en "U", horizontales, y que se fijan por sus bordes verticales a sendas piezas laterales, de perfil curvo, definiendo todas estas piezas un alojamiento de considerables dimensiones accesible mediante una puerta frontal establecida en el panel anterior, y constituyendo la placa en "U" o distanciador superior la base de apoyo para un compartimento caliente-platos establecido entre el compartimento de almacenaje anteriormente citado y el cajon o bandeja porta-brasas, el cual encaja entre los laterales y apoya sobre el borde superior de los paneles frontal y posterior con caracter extraible, situandose sobre dicho cajon la parrilla, montada con posibilidad de regulacion en altura sobre la zona superior de los laterales curvos. 1. Barbecue, of the type which are structured by metal parts and constitutes a removable element, characterized in that it is formed from two rectangular panels, one front and one rear, related to each other by spacer plates in "U" horizontal, and which are fixed by their vertical edges to respective side pieces, curved profile, defining a housing all these pieces of considerable dimensions accessible through a front door provided in the front panel, and the plate "U" constituting the base of support for upper spacer or a compartment heated-dishes established between the storage compartment cited above and the drawer or tray holder embers, which fits between the side and rests on the top edge of the panels Front and rear with removable character, standing on said drawer, mounted with the possibility of height adjustment on the top of the curved sides.



Probable Assignee: ROSELLO CISCAR DAVID

Earliest Publication Date: 20060716

87) Family number: 36081966 (AR055539A)

PatBase

PARRILLA DE RAYOS INFRARROJOS INFRARED RAY GRILL (MACHINE TRANSLATION)

Abstract: Source: AR055539A Una parrilla con pantalla de rayos infrarrojos que comprende una estructura de chapa metalica que rodea la parrilla por detras y por ambos lados y una bandeja con un enrejado que calza en dicha bandeja, siendo el conjunto enrejado y bandeja facilmente deslizable hacia adelante y atras, a los efectos de dar vuelta el asado. Esta bandeja posee una traba de seguridad cooperante con una aleta depuesta en piezas perfiladas de guia de dicho enrejado superior y bandeja inferior. n la parte superior del cuerpo quedan dispuestas pantallas fijas sostenidas por travesanos y controladas en su temperatura por robinetes de maxima y minima con valvulas de seguridad y encendido piezoelectrico, lograndose un artefacto muy practico, seguro, limpio y sencillo.

Machine translation: A grill with infrared ray screen that includes/understands a metallic plate structure that behind surround the grill and by both sides and a tray with a grating that wear in this tray, being the put grates on set and easily curve-slide tray forwards and back, to the effects to give to return the roasted one. This tray has a security tie cooperater with a fin demoted in outlined pieces of guide of this superior grating and inferior tray. n the superior part of the body is had fixed screens maintained by crosspieces and controlled in their maximum and minimum temperature by robinetes with safety valve and piezoelectric ignition, being obtained a device very I practice, surely, clean and simple.

Probable Assignee: CABANAS ARTURO ARMANDO

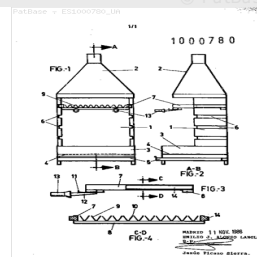
Earliest Publication Date: 20070822

88) Family number: 4511963 (ES1000780U)

PatBase

NUEVO ASADOR PORTATIL PARA ALIMENTOS NEW PORTABLE SPIT FOR FOODS (MACHINE TRANSLATION)

Abstract: Source: ES1000780U 1. NUEVO ASADOR PORTATIL PARA ALIMENTOS, ESENCIALMENTE CARACTERIZADO POR ESTAR CONSTITUIDO A PARTIR DE SU CUERPO PARALELEPIPEDICO, FRONTALMENTE ABIERTO, QUE SE REMATA SUPERIORMENTE EN UNA CAMPANA TRONCOCONICA PARA EVACUACION Y TIRO DE LOS HUMOS Y QUE DESCANSA A SU VEZ SOBRE UN CUERPO INFERIOR, IGUALMENTE PARALELEPIPEDICO, DE ESCASA ALTURA, EN CUYO SENO SE ESTABLECE UN ENREJADO PARA DISPOSICION DEL COMBUSTIBLE Y DETERMINANTE DE LA PLATAFORMA DE COMBUSTION, BAJO CUYO ENREJADO SE ESTABLECE ADEMAS UN CENICERO EXTRAIBLE, HABIENDOSE PREVISTO QUE EL CUERPO PARALELEPIPEDICO INTERMEDIO INCORPORE, EN SUS PAREDES LATERALES, UNA PLURALIDAD DE GUIAS DETERMINANTES DE PAREJAS ESTABLECIDAS A DIFERENTES NIVELES EN ALTURA, PARA ACOPLAMIENTO SELECTIVO DE UNA PARILLA, SIENDO ESTOS TRES ELEMENTOS, LOS DOS CUERPOS PARALELEPIPEDICO Y LA CAMPANA SUPERIOR, DESMONTABLES PARA CONFERIR AL ASADOR SU CARACTER PORTATIL QUE PERMITA SU COLOCACION EN CUALQUIER LUGAR.



Machine translation: 1. NEW SPIT PORTABLE FOR FOODS, ESSENTIALLY CHARACTERIZED TO BE CONSTITUTED FROM HIS BODY PARALELEPIPEDICO, FRONTALLY OPENED, THAT SUPERIOR COMES TO RUIN IN A TRUNKATED CONE BELL FOR EVACUATION AND SHOT OF THE SMOKE AND THAT RESTS AS WELL ON AN INFERIOR BODY, ALSO PARALELEPIPEDICO, OF LITTLE HEIGHT, IN WHOSE SINE ONE SETTLES DOWN A GRATING FOR DISPOSITION OF THE FUEL AND DETERMINANT OF THE PLATFORM OF COMBUSTION, UNDER WHOSE GRATING A ASH TRAY EXTRAIBLE SETTLES DOWN IN ADDITION, HAVING ITSELF ANTICIPATED THAT INTERMEDIATE BODY PARALELEPIPEDICO INCORPORATES, IN HIS SIDEWALLS, A PLURALITY OF DETERMINING GUIDES OF PAIRS ESTABLISHED AT DIFFERENT LEVELS IN HEIGHT, FOR SELECTIVE CONNECTION OF A PARILLA, BEING THESE THREE ELEMENTS, BOTH BODIES PARALELEPIPEDICO AND THE SUPERIOR BELL, DETACHABLE TO CONFER TO THE SPIT ITS PORTABLE CHARACTER THAT ALLOWS ITS POSITIONING IN ANY PLACE.

Probable Assignee: H MITCHELL S L

Earliest Publication Date: 19880316

89) Family number: 49183067 (IN01784CH2011A)

PatBase

GRAVITY FED HOT AIR GENERATING COAL, WOOD OR CHARCOAL BURNING APPARATUS

Abstract: Source: IN01784CH2011A Improved gravity fed coal, charcoal or wood burning hot air generating metallic chamber with high heat efficiency, temperature control, low fuel consumption and non hazardous to health which can be used for cardamom drying or for room heating.

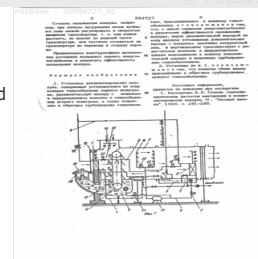
Probable Assignee: MR SHINTO MATHEW

Earliest Publication Date: 20110708



AIR CONDITIONING PLANT

Abstract: Source: SU954727A 1 Invention relates to the art of air concentration d1ionirovani. known air-conditioning installation, comprising a set during the first heating air heat exchanger, humid chamber with a tray and a circulation ring and the second heat exchanger heating, as well as the supply and return lines of the heating medium, attached to each heat exchanger ku jg 1. disadvantage of the known installation is povyschenoe low power consumption and cooling efficiency of air. This is because the use-, j with artificial cold and heat transfer is effected through the surface. object of the invention - reducing energy consumption and increasing efficiency otslzhdeni vozduha.20 The goal is achieved by the fact that before the humidification chamber during the air installed additional chamber with a tray having a boot hatch and vertical conveyor with reshchatymipolkami and a circulation ring is connected to the pallet dopolnkn tive camera and feed pipelines tepoobmennikov. Pallets both chambers are connected to each truboprovrdam reflux exchanger. Fig. 1 shows being offered installation, general view; Fig. 2 - node locking popozhenie peredvigayuschihs asses up conveyor, general view; Fig. 3 - section A-A in Fig. 2; Fig. 4 - shelf conveyor covered vlagopogposchayuschim materiapom, general view. air-conditioning installation has installed downstream of the first heat exchanger 1 air heating, humid chamber 2 with tray 3. ring and the circulating heat exchanger 4 and 5 of the second heating, as well as the supply and return lines 6 and 7 3Q547274 tegayunositel attached to each vertical auyut pioskosg. Dp boteppoobmenniku 1 and 5. Before moisturizer, and more effectively ohlzhnen humidified chamber 2 during the air for extra ustanovp Kugler 8 9 tray having a loading hatch 10 and vertikylnym conveyor 11c slatted shelf 12 and a circulation ring 4 is connected to the pallet 9 additional camera 8 and feed transport boprovodam 6 heat exchangers. Trays 3 and 9, the two chambers 2 and 8 are connected to the return piping 7, heat exchanger 1 and 5. Furthermore, installing a valve 13 for controlling the supply of fresh air, a valve 14 for controlling the supply of recirculating air mixture telschto chamber 15, nozzle 16, centrifugal pump 17 and control veins T5 number I.Na Conde shaft 25 fixedly secured to the flange segment 26, for which rests finger 27 attached to the sleeve 28, having the opportunity povfachivats on the axis 25. on the sleeve 28 is fixedly mounted holder 29 to which Frame 30 is rigidly attached gender: - 'and 12 and 25 at the spine as fixed (in the sleeve) secured chain 31. one end to the frame of the shelf, and the other end to a respective link of the chain is attached a spring 32. abalone 33 fixed to the outer plate 34 lepi 31. Polisi conveyor moisture pogloschakldim coated material 35 evenly spaced between the two grids 36 (Fig. 4), which bolts are connected to collar 37, is pivotally attached to the side portions of the lower frame of the grid. In the boot hatch establish 10: and the county grill 38. Installation operates as follows. Svezhiy.vozduh, postupayutdy through the valve 13, heat 1 {hook mixed with recirculation air postupayushim through the valve in the mixing chamber 14 D 15. When passing chunks of ice from the tray by padayutoie 9 to 12 ass tra Porter 11, the air is cooled. The conveyor 11 has a function of separatrix ra 1dzi perekrsanii partial sectional-submerged installation on shelves 12 chunks of ice in the counter part Tran Porter (facing vozduka) and almost complete overlap of the conveyor section na.zadney. When opguskanii shelves on sharshfe pivoting under its own weight, obraNIN except vertical treated air conveyor which can work both as a watering nozzles may be installed affectation acid 16, in which both the pump 17 from the main tray 3, so additional i.iz 9 pan over nalyurom water can be supplied. For additional cooling, or dehumidification, or when the cooling air is necessary, without moistening (for | example, when the injector is not operating), the cooled water may be supplied to the heat exchanger 1 of the first or second warm-5. Heat exchanger 1 and 5 in the winter time can be used to preheat the air. With adjustable valves-1 8-24 but one can achieve economical flow of ice, water and heat used in the processing of air, as well as controlling the temperature of the air.. Required position of counter flanges 12 and rear portions of the conveyor assembly 11 provides a mounting structure shelves to the axis 25 of the conveyor 11 (Figs. 2 and 3). On the shaft 25 is fixedly attached segment ({ianets 26 on which rests. Finger 27 attached to the hub 28. On this sleeve holder 29 is fixedly mounted to frame 30 which is attached shelves. Axis 25 K chain 31 is also attached. Axle 25 fixedly attached 33 to the eyelet (br-1SH thickness S), which in turn is attached to the outer plate 34 of chain 31. order to support shelves. desired slope (backward side of the conveyor), e.g. during loading of less ice FIR with one or shelves mounted on both sides of the spring 32, one end attached to a respective yotoryh chain link 31. Between grids are fixed collar pivot bolts 37, embedded moisture yugloschayuschy material 35 (for example, cotton fiber that laysachovogo) which uv.elichivaeteffektivnost operation. Lattice Model 38 at the top of lyuka10 eliminates the possibility of a pan 9 large pieces of ice. Moreover, lamellar grating 38 and in rhney parts may have sharp teeth that contribute crushing ice for Rouge. Degree of cooling air, for example, with full loading shelves kuszhami ice can be adjusted and the speed of movement travsportera, ie, the ice can be rasta, not income before: verkney of the conveyor, or partially remain on the conveyor to move towards spuo ka. The proposed design realization installation allows to reduce power consumption and increase the efficiency of air ohlzhde.ni. CLAIMS. 1. Air-conditioning installation, comprising a set during the first heating air heat exchanger, humid chamber with a tray and a circulation ring and a second heat exchanger heating, as well as the supply and return lines teplonosiw / Z / y9 MW / / about 7 2ff 4V Rgpp XiW efKOf, tft / bodies attached. each heat exchanger, characterized in that in order to reduce power consumption and increase the efficiency of cooling air to the humidification chamber facing the additional air chamber is installed with a tray having a loading opening and a vertical conveyor with a latticed shelves, a circulation well connected to the pan ring additional camera feed and the heat exchanger. 2. Apparatus according to claim 1, characterized in t eating that both trays are attached to the opposite chambers of each of the heat exchanger pipes. Sources of information received into account in the examination 1. Nesterenko AV Fundamentals of thermodynamic calculations of ventilation and air-conditioning, AM, Vysscha schkola, 1965, p. 281-285. Fig. 2 52 25 (PU.2.3



Probable Assignee: LITOVSKIJ NII TEKSTILNOJ PROMY

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