

1) Family number: 2922009 (WO8802999A1)

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Title: APPARATUS AND METHOD FOR PREPARING FRIED POTATO PRODUCTS

Abstract: Apparatus and method for preparing hot food products in portions of predetermined size by rehydrating a dehydrated food product to provide a dough that can be shaped and heated. The apparatus includes means (18) for storing bags of dehydrated product and for opening individual bags as needed to maintain a desired level of dehydrated product in a hopper. Rehydration means (22) are provided, including a metering chamber (80) to meter a portion of the dehydrated food product, and a rehydration head (86) to uniformly wet the dehydrated food product to form a coherent dough. The dough is passed through a forming means to form it into predetermined pieces that are extruded from a forming chamber, and a wire knife (152) passes linearly across the forming chamber to separate the extruded product therefrom. A product transfer conveyor (208) is provided to convey the shaped dough pieces to a fryer vessel (222) in which heated frying oil is provided.

Classifications:

International (IPC 8-9): A21C11/16 A21D8/06 A23G3/34 A23L1/01

A23L1/216 A23L1/217 A23L19/12 A23L5/10

A47J37/12 (Advanced/Invention);

A23G3/34 A23L1/01 (Advanced/Non-invention);

A21C11/00 A21D8/00 A23G3/34 A23L1/01 A23L1/214

A47J37/12 (Core/Invention);

A47J (Subclass/Invention)

International (IPC 1-7): A21D8/00 A21D8/06 A23G3/00 A23L1/01

A23L1/216 A23L1/217 A47J37/12

CPC: A21C11/16 A47J37/1228

European: A21C11/16 A47J37/12E

JP F-Term: 4B014 4B014/GE12 4B014/GG05 4B014/GP05 4B014/GP07

4B014/GP16 4B014/GQ01 4B014/GT03 4B014/GT08 4B014/GT10

4B014/GT11 4B014/GT20 4B014/GU01 4B016 4B016/LC06 4B016/LG06

4B016/LP07 4B016/LT03 4B032 4B032/DB00 4B035 4B035/LC03

4B035/LC16 4B035/LE17 4B035/LG32 4B035/LP07 4B035/LP25

4B035/LP26 4B035/LP32 4B035/LT03 4B035/LT14 4B059 4B059/AA01

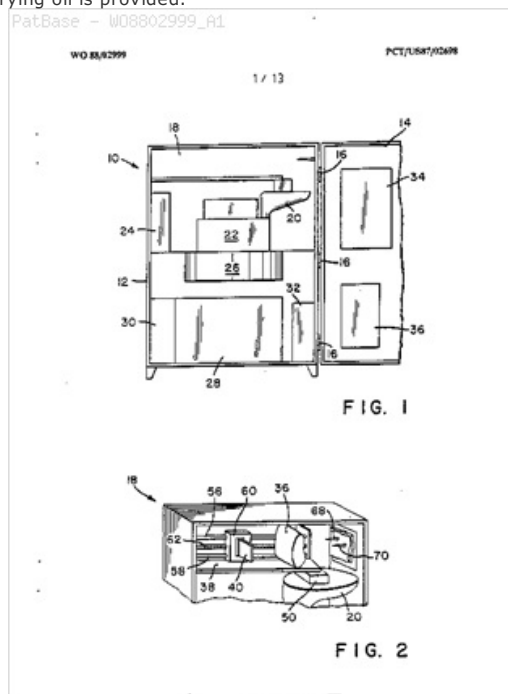
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4B059/BE04 4B059/BE11 4B059/BE15

JP F-Index: A21D8/06 A23G3/00/108 A23G3/34/108 A23G3/48

A23G3/50 A23L1/01/D A23L1/216 A23L19/12 A23L5/10/D A47J37/12/361



Family:

Publication number	Publication date	Application number	Application date
AU198781557 A1	19880525	AU19870081557	19871022
BRPI8707512 A	19890221	BR1987PI07512	19871022
CA1330739 A1	19940719	CA19870550016	19871022
DK341288 A	19880819	DK19880003412	19880622
DK341288 A0	19880622	DK19880003412	19880622
EP0288522 A1	19881102	EP19870907205	19871022
EP0288522 A4	19890302	EP19870907205	19871022
FI882998 A	19880622	FI19880002998	19880622
FI882998 A0	19880622	FI19880002998	19880622
JP1500963 T2	19890406	JP19870506539T	19871022
NO882755 A	19880822	NO19880002755	19880622
NO882755 A0	19880622	NO19880002755	19880622
NO882755 L	19880822	NO19880002755	19880622
WO8802999 A1	19880505	WO1987US02698	19871022

Priority:

US19860921304 19861022 CA19870550016 19871022 WO1987US02698 19871022

Probable Assignee: MATRIX INC

Assignee(s): (std): MATRIX INC ; PRIZE FRIZE INC

Assignee(s): SEGUNDO MICHAEL ; BARTFIELD WILLIAM

Inventor(s): (std): SEGUNDO MICHAEL ; BARTFIELD WILLIAM

Inventor(s): MICHAEL SEGUNDO ; WILLIAM BARTFIELD

Agent(s): GRIFFITH HACK; SWABEY OGILVY RENAULT

Designated states: AT AU BE BR CH DE DK FI FR GB IT JP KR LI LU NL NO SE

Title: Self contained frying machine

Abstract: A self contained frying machine having a storage area, a mixing chamber for receiving a pre-measured amount of dehydrated food product from the storage area and rehydrating and solidifying the same, a piston for compressing the rehydrated food product and forcing it through an orificed die plate where the dehydrated and solidified food product is formed into individual pieces. The pieces are then deposited into a hot oil chamber and, after frying, drained and deposited into a container for consumption.

Classifications:

International (IPC 8-9): A23L1/01 A23L5/10 A47J37/12

G07F9/10 (Advanced/Invention);

A47J37/12 (Advanced/Non-invention);

A47J37/12 G07F9/10 (Core/Invention);

A23L1/01 (Core/Non-invention)

International (IPC 1-7): A23L1/01 A47J37/00 A47J37/12

CPC: A47J37/1228 G07F9/105 G07F17/0078

European: A47J37/12E G07F17/00F4 G07F9/10B

US: 99/330 99/353 99/356 99/357 99/404 99/407

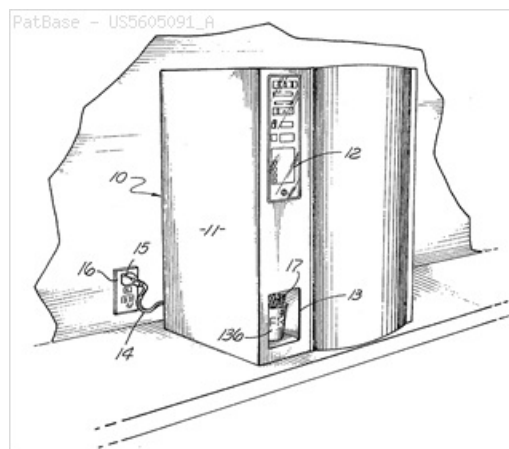
JP F-Term: 4B059 4B059/AA01 4B059/AA06 4B059/AB01 4B059/AC04

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4B059/BG04

JP F-Index: A47J37/12/361



Family:

Publication number	Publication date	Application number	Application date
AU199511758 A1	19950529	AU19950011758	19941110
BRPI9408049 A	19961224	BR1994PI08049	19941110
CA2176380 AA	19960510	CA19942176380	19941110
CN1139374 A	19970101	CN19941094670	19941110
EP0727954 A1	19960828	EP19950902512	19941110
EP0727954 A4	19970625	EP19950902512	19941110
IL111586 A0	19950330	IL19940111586	19941110
IL111586 A1	19981206	IL19940111586	19941110
JP9504969 T2	19970520	JP19950514016T	19941110
KR19960705496 A	19961108	KR19960702545	19960511
KR19967005496 A	19961108	KR19967002545	19941110
LV11587 A	19961220	LV19960000180	19960612
LV11587 B	19970620	LV19960000180	19960612
MX9408843 A1	19971031	MX19940008843	19941114
RU2128462 C1	19990410	RU19960112125	19941110
RU96112125 A	19981127	RU19960112125	19960612
TH22071 A	19961127	TH19941002440	19941110
TW306871 B	19970601	TW19940110612	19941114
US5605091 A	19970225	US19940336292	19941108
WO9513007 A1	19950518	WO1994US12984	19941110

Priority:

US19930150853 19931112 US19940336292 19941108 WO1994US12984 19941110

Probable Assignee: MANCAR ENTERPRISES INC

Assignee(s): (std): FRY FACTORY INC ; INT FRIES INC ; MATRIX US INC ; MXI INC ; MATRIKS JU S INK

Assignee(s): MATRIX U S ; Fry Factory ; MATRIX U S INC ; MATRIKS JU S ; MATRIKS JUS INK ; ROSENBLUM MICHAEL S RECEIVER FOR FRY FACTORY INC ; SOKOL STACY L ; MATRIX US ; MANCAR ENTERPRISES INC ; ROSENBLUM MICHAEL S ; INTERNATIONAL FRIES INCPA ; GARBER JACK C ; Inc.

Inventor(s): (std): DZHEK K GARBER ; GARBER JACK C

Inventor(s): JACK C GARBER ; Garber ; Jack C.

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; SANFORD TCOLB AND CO

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG TJ TT UA UZ VN

Title: PROCESS FOR PREPARING FRIED POTATO PRODUCT FROM DEHYDRATED POTATO

Abstract: This invention is related to a novel process and automatic apparatus for delivering formed, freshly fried potato products from a dehydrated potato granulate. The process includes the steps of preparing a dough by rehydrating the granulate, cutting the dough into pieces, frying the pieces of dough, and controlling the frying time by measuring the temperature of the frying oil during the frying time; computing the introduced energy amount by integrating the temperature of frying oil over the

frying time; and terminating the frying time when the introduced energy amount equals a predetermined constant value. The pieces are removed from the oil when the frying time is terminated.

Classifications:

International (ipc 8-9): A23L1/01 A23L1/217 A23L19/18 A23L5/10 A47J37/12 G07F9/10 (Advanced/Invention);

A23L1/01 A23L1/214 A47J37/12 G07F9/10 (Core/Invention)

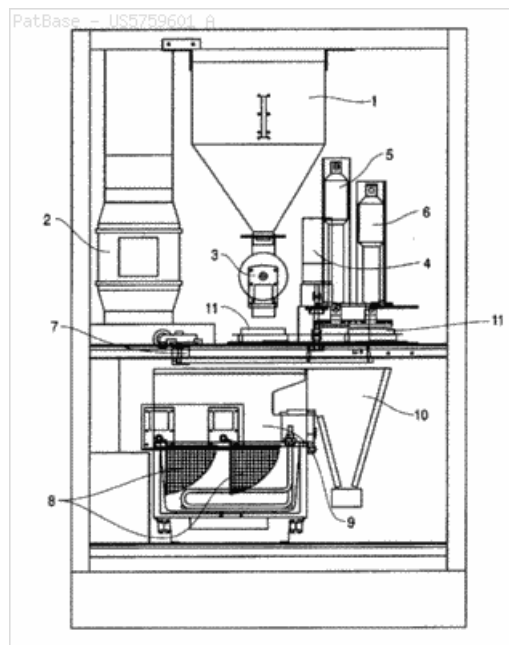
International (ipc 1-7): A23L1/00 A47J37/12

CPC: A23L5/11 A23L19/19 G07F17/0085 A47J37/1228 G07F17/0078

European: A23L1/01B A23L1/217B A47J37/12E G07F17/00F4

G07F17/00F4B

US: 426/233 426/438 426/506 99/333 99/334 99/357 99/403



Family:

Publication number	Publication date	Application number	Application date
US5759601 A	19980602	US19960662110	19960614
US5974951 A	19991102	US19980084437	19980527

Priority:

US19960662110 19960614 US19980084437 19980527

Probable Assignee: FRYWORKS

Assignee(s): FRYWORKS ; FRYWORKS SUITE ; KOVACS LASZLO

Inventor(s): (std): KOVACS LASZLO

4) Family number: 3300086 (US5073390A)

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Title: CONTAINER FOR HEATING OR COOKING A FOOD PRODUCT IN A HOT-AIR OVEN

Abstract: Containers of the present invention are particularly adapted for use in heating a food product contained therein by utilizing an oven that operates with forced heated air. In one embodiment of the present invention, the container includes a body portion having a bottom end panel attached thereto, and a top end panel releasably attached thereto. The container is provided with means for allowing heated air to pass through the container such as a plurality of apertures in the container's top and bottom end panels, or a plurality of apertures in the container's sidewall panel. In one embodiment, the body portion of the container is provided with a pleat that is initially folded. When the container's top end panel is removed, the pleat is unfolded to allow the container to be expanded. In another particularly preferred embodiment of the present invention, the body portion of the container is provided with a line of weakness that is broken to open the container. In all embodiments of the present invention, a filter element is preferably secured to the inner or outer surface of container's top and bottom end panels. The filter element allows heated air to pass through the container while trapping a substantial portion of the liquid and gaseous fumes emitted from the food product during the cooking process.

Classifications:

International (ipc 8-9): A47J27/00 A47J27/14 A47J37/04 A47J39/00 B65D81/34 F24C1/00 F24C15/16 (Advanced/Invention);

A47J27/00 A47J27/14 F24C1/00 F24C15/16 (Advanced/Non-invention);

A47J27/00 A47J27/14 A47J37/04 A47J39/00 F24C1/00

F24C15/16 (Core/Invention)

International (ipc 1-7): A23L1/00 A23L1/01 A47J27/00 A47J27/026

A47J27/14 A47J36/00 A47J37/00 A47J37/04 A47J39/00 B65D81/34

B65D85/00 F24C1/00 F24C15/16 F24C7/00 F24C7/08

CPC: A21B1/26 A47J37/047

European: A21B1/26 A47J37/04G

US: 426/107 426/113 426/122 426/132 426/523

JP F-Term: 3L084 3L089 4B054 4B054/AA06 4B054/AA16 4B054/AB11

4B054/AC09 4B054/BA16 4B054/BC12 4B054/CB02 4B054/CB07

4B054/CD02 4B054/CH01 4B054/CH02 4B054/CH12 4B055

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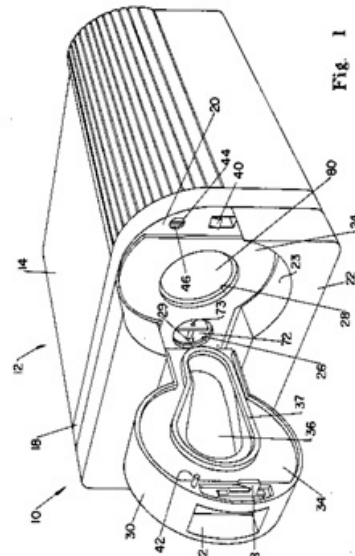


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
AU199053859 A1	19901101	AU19900053859	19900426
CA2013621 AA	19901027	CA19902013621	19900402
EP0395139 A1	19901031	EP19900200941	19900418
FI902100 A0	19900426	FI19900002100	19900426
JP3068316 A2	19910325	JP19900115005	19900427
KR19900015674 A	19901110	KR19900005805	19900425
NZ233448 A	19930428	NZ19900233448	19900426
PT93890 A	19901120	PT19900093890	19900427
US5073390 A	19911217	US19890344168	19890427

Priority:

US19890344168 19890427 CA19902013621 19900402

Probable Assignee: PROCTER AND GAMBLE CO**Assignee(s):** (std): KNIGHT DELOS L ; PANASEWICZ DALE A ; PROCTER AND GAMBLE ; SAUNDERS CRAIG M**Assignee(s):** PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; PROCTER AND GAMBLE CO ; KNIGHT DELOS L III**Inventor(s):** (std): KNIGHT DELOS LAVERN ; SAUNDERS CRAIG MARTIN ; PANASEWICZ DALE ANTON ; KNIGHT DELOS L III ; PANASEWICZ DALE A ; SAUNDERS CRAIG M ; KNIGHT III DELOS L ; KNIGHT III DELOS LAVERN ; SAUNDERS GRAIG MARTIN ; KUREIGU MAACHIN SAUNDAASU ; DEERU ANTON PANASEBITSUCHI ; DEROSU RAABAAN NAITO ZA SAADO**Inventor(s):** DELOS LAVERN KNIGHT 111 ; CRAIG MARTIN SAUNDERS ; DALE ANTON PANASEWICZ ; KNIGHT DELOS LAVERN 111 ; KNIGHT DELOS L**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY**Designated states:** AT BE CH DE DK ES FR GB GR IT LI LU NL SE**5) Family number: 3300092 (US5154940A)**

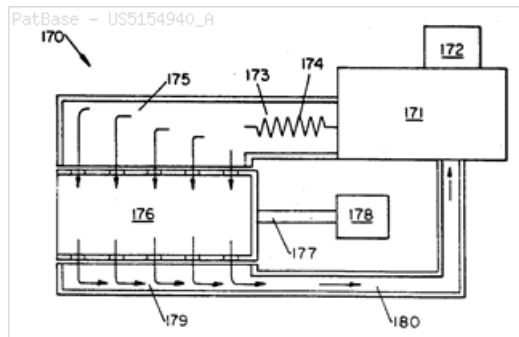
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Title: Method for rapidly heating or cooking a food product

Abstract: Method of and apparatus for heating or cooking a food product packaged within a container by using heated air. The oven apparatus includes a substantially closed-loop heated air system that starts with a blower that blows air into a heating barrel where a heating element heats the air to a high temperature. The heated air exits the heating barrel, passes through an air flow channel in the oven's door, and enters the oven's heating chamber. The heated air passes through the container inside the heating chamber and heats the food product within the container. In a preferred embodiment of the invention, the heating chamber is rotated while the heated air passes through the container to tumble the food product and ensure even heating thereof. The air exiting from the food product container enters a recirculation chamber which directs the air back into the blower to repeat the cycle. Heated air is recirculated through the food product container for either a fixed period of time, or until the temperature of the air exiting from the container reaches a predetermined value. In a preferred embodiment of the invention, the oven includes a central processing unit that is programmed to control the oven's overall operation based on signals received from various transducers, e.g., a door switch, various temperature sensors, an air flow switch, and product-in switch. Also disclosed are various embodiments of containers that are particularly adapted for heating food products by utilizing the oven apparatuses of the present invention.

Classifications:**International (IPC 8-9):** A23L1/01 A23L5/10 A47J37/04 A47J39/00

B65D81/34 F24C7/00 (Advanced/Invention);
A23L1/01 B65D81/34 (Advanced/Non-invention);
A23L1/01 A47J37/04 A47J39/00 B65D81/34 F24C7/00 (Core/Invention)
International (ipc 1-7): A23L1/01 A47J36/00 A47J37/00 A47J37/04
A47J39/00 B65D81/34 F24C7/00 F24C7/08
CPC: A21B1/26 A47J37/047
European: A21B1/26 A47J37/04G
US: 426/232 426/394 426/405 426/406 426/407 426/523
JP F-Term: 3E013 3E013/BB01 3E013/BB11 3E013/BC01 3E013/BC04
3E013/BC06 3E013/BC12 3E013/BC13 3E013/BD11 3E013/BD13
3E013/BD20 3E013/BE05 3L087 3L087/AA01 3L087/AB01 3L087/AB02
3L087/AB07 3L087/AB10 3L087/AC01 3L087/AC13 3L087/AC18
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4B035/LP12 4B035/LP43 4B035/LP59 4B035/LT01 4B035/LT16
4B035/LT20
JP F-Index: A23L1/01/F A23L1/01/Z A23L5/10/F A23L5/10/Z B65D81/34/Z F24C7/00/Z



Family:

Publication number	Publication date	Application number	Application date
AU199053860 A1	19901101	AU19900053860	19900426
AU619976 B2	19920206	AU19900053860	19900426
CA2013620 AA	19901027	CA19902013620	19900402
CA2013620 C	19931214	CA19902013620	19900402
EP0395143 A1	19901031	EP19900200958	19900418
FI902099 A0	19900426	FI19900002099	19900426
JP3005623 A2	19910111	JP19900115004	19900427
KR19900015673 A	19901110	KR19900005804	19900425
NZ233447 A	19930428	NZ19900233447	19900426
PT93889 A	19901120	PT19900093889	19900427
TR25146 A	19921101	TR19900000378	19900418
US5154940 A	19921013	US19900579224	19900905

Priority:

US19890344167 19890427 CA19902013620 19900402 US19900579224 19900905

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BUDZYNA W JAMES ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; HOWE DAVID J ; JOHNSON WILLIAM A ; MCCABE GREGORY J

Inventor(s): (std): BUDZYNA WALTER JAMES ; JOHNSON WILLIAM AUGUST ; HOWE DAVID JULIN ; MCCABE GREGORY JOHN ; BUDZYNA W JAMES ; HOWE DAVID J ; JOHNSON WILLIAM A ; MCCABE GREGORY J ; UIRIAMU OOGASUTO JIYONSON ; DEIBITSUDO JIYURIN HOO ; UORUTAA JIEMUZU BADOJIINA ; GUREGORII JIYON MATSUKUKEBU

Inventor(s): WILLIAM AUGUST JOHNSON ; WALTER JAMES BUDZYNA ; GREGORY JOHN MCCABE ; DAVID JULIN HOWE

Agent(s): PHILLIPS ORMONDE FITZPATRICK; SIM AND MCBURNEY

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

6) Family number: 14234114 (NO314381B)

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Title: MASKIN FOR AUTOMATISK FREMSTILLING OG OMSETNING AV VAFLE BASERT PA HALVFABRIKATA RAVARER Machine FOR AUTOMATIC FORWARD POSITION AND TURNOVER OF WAFFLES BASED PA SEMIS RAVARER (Machine translation)

Abstract: Source: NO314381B [NO] 1. Vaffeisteikemaskin omfattende en styringsenhet (17) og enenergi- forsyningsenhet (40), minst to vaffeljern (13) med minst en varmeinnretning (14), en motor (18) for å åpne og lukke vaffeljernene (13) på et signal (180) fra styringsenheten, en beholder (10) for ferdig vaffelrøre med en doseringspumpe (22) for levering av vaffelrøre til minst det ene vaffeljernet (13) på et signal (220) åa styringsenheten, samt en betalingsenhet (20) for å gi et betalt - signal (200) til styringsenheten (17), karakterisert ved en pulverbeholder (1) for vaffeltørstoff, meid en pulverdoseringsanordning (2) for levering av vaffeltørstoff til beholderen (10) på et signal (201) fra styringsenheten (17), en væskeventil eller pumpe (9) for levering av væske til beholderen (10) på et signal (900) fra styringsenheten (17), samt en røremekanisme (8) for blanding av vaffeltørstoff og væske til vaffelrøre. **Machine translation:** 1 Vaffeisteikemaskin comprising a control unit (17) and enenergi supply unit (40), at least two waffle irons (13) having at least one heating device (14), a motor (18) for opening and closing vaffeljernene (13) to a signal (180) fia control unit, a container (10) for finished batter with a dosing pump (22) for the supply of batter to at least one baking plate (13) to a signal (220) the stream control unit and a charging unit (20) to provide a charge - signal (200) to the control unit (17) comprising a powder container (1) for waffle solids, despatches one powder dosing device (2) for the supply of waffle solids to the container (10) to a signal (201) fia control unit (17), a liquid valve or pump (9) for delivery of liquid to the container (10) to a signal (900) control unit (17), and a stirring mechanism (8) for mixing the solids and liquid waffle waffle batter.

Classifications:

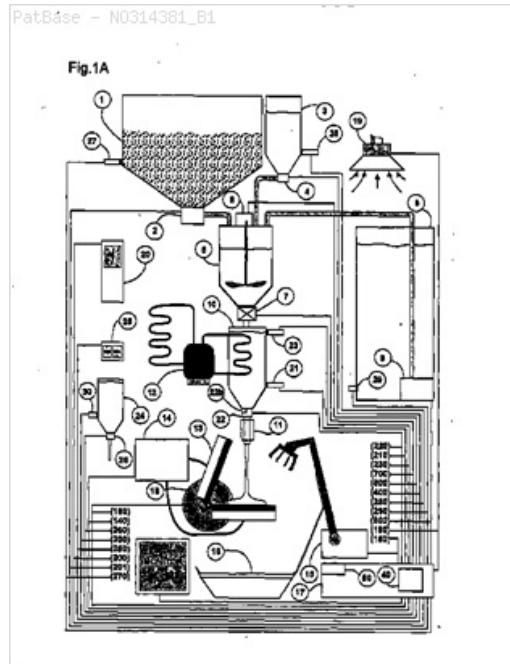
International (ipc 8-9): A21B5/02 A47J37/06

G07F11/00 (Advanced/Invention);

A21B5/00 A47J37/06 G07F11/00 (Core/Invention);

A47J (Subclass/Invention)

International (ipc 1-7): A21B5/02 A47J A47J37/06 G07F11/00

**Family:**

Publication number	Publication date	Application number	Application date
NO20005703 A	20020513	NO20000005703	20001110
NO20005703 A0	20001110	NO20000005703	20001110
NO20005703 L	20020513	NO20000005703	20001110
NO314381 B1	20030317	NO20000005703	20001110

Priority:

NO20000005703 20001110

Probable Assignee:

OEIEN JAN H

Assignee(s): (std):

OEIEN JAN H ; OEIEN JAN HARRY

Inventor(s): (std):

OEIEN JAN H ; OEIEN JAN HARRY

7) Family number: 77733128 (US2020058185A)

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Title: FOOD FRYING AND DISTRIBUTION DEVICE

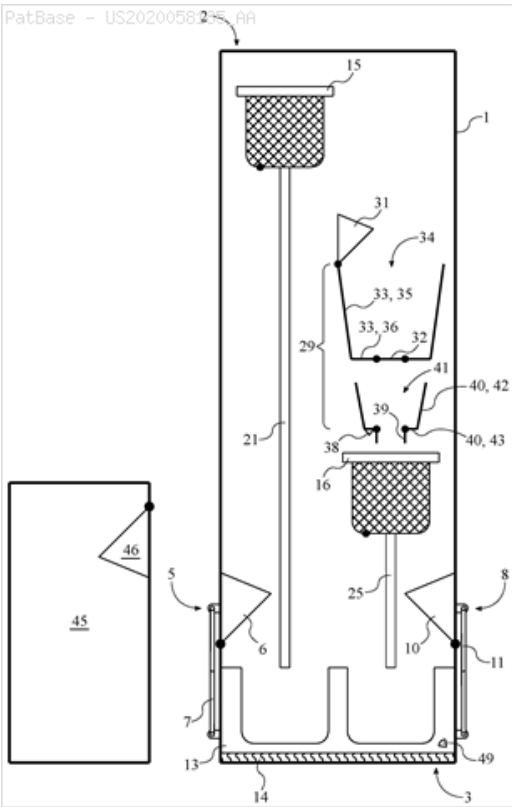
Abstract: A food frying and distribution device is used to pre-cook frozen food for storage and subsequent dispensing. The apparatus is configured to fry food to near completion, to store that food, and to then finish cooking upon consumer request, thereby reducing cooking time. The apparatus includes a housing, a frozen-foods inlet, a fried-foods outlet, at least one fryer basin, a first frying basket, a second frying basket, a first conveyor, a second conveyor, a vending mechanism, and a control unit. The housing is the protective shell that allows for arrangement of components. The frozen-foods inlet is an opening through which a user may insert frozen foods for preparation and storage within the apparatus. Conversely, the fried-foods outlet is an opening through which fried foods may be obtained by a consumer. The general configuration of the aforementioned components allows the apparatus to efficiently and effectively generate fried food relatively quickly.

Classifications:**International (IPC 8-9):** A47J37/12 G07F17/00

G07F9/10 (Advanced/Invention)

CPC: G07F17/0085 A47J37/1228 A47J37/1295 A47J37/1214 A47J37/1219

G07F9/105



Family:

Publication number	Publication date	Application number	Application date
US2020058185 AA	20200220	US20190546295	20190820

Priority:

US20180719844P 20180820 US20190546295 20190820

Probable Assignee: IVOSEVIC RAJKO

Assignee(s): (std): IVOSEVIC RAJKO

Inventor(s): (std): IVOSEVIC RAJKO

8) Family number: 12881137 (US5582755A)

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Title: Apparatus and method for classifying a medium in a cooking chamber

Abstract: A deep fat fryer includes a controller operatively connected to a heating element for controlling the operation thereof to apply heat to a cooking chamber. A temperature sensor is disposed in the cooking chamber for measuring the temperature in the cooking chamber and communicating the same to the controller. The controller selectively operates the heating means to apply heat to the cooking chamber. Utilizing the output of the temperature sensor, the controller automatically determines whether the medium contained in the cooking chamber is water, liquid shortening or solid shortening or whether the cooking chamber is empty. Based on this determination, the controller takes appropriate action including, automatically adjusting its operation to conform to the detected medium

Classifications:

International (IPC 8-9): A47J37/12 G05D23/19 (Advanced/Invention);

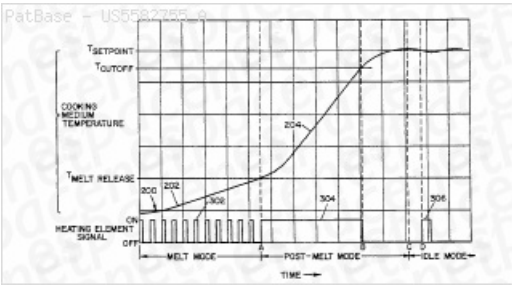
A47J37/12 G05D23/19 (Core/Invention)

International (IPC 1-7): H05B1/02

CPC: A47J37/1266 G05D23/1919

European: A47J37/12K G05D23/19E

US: 219/492 219/497 219/506 219/508 340/589 99/330



Family:

Publication number	Publication date	Application number	Application date
US5582755 A	19961210	US19950416047	19950404

Priority:

US19950416047 19950404

Probable Assignee: AMETEK INC

Assignee(s): (std): TRIDELTA IND INC

Assignee(s): TRIDELTA INDUSTRIES INC ; AMETEK INC ; HONEYWELL INT
Inventor(s): (std): MAHER JR CHARLES A ; LARRICK RAYMOND

9) Family number: 49125141 (US2011151074A)

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Title: AUTOMATED FOOD PREPARATION APPARATUS AND METHOD

Abstract: An apparatus for cooking a food product has a housing having a refrigeration section and a cooking section therein. The refrigeration system has a plurality of separate conveyor belts located to store the food product thereon and to feed the food product from one conveyor belt to the next and into a food proportioning device which delivers the food into the cooking section and into the cooker where the food product is cooked and then delivered into a container.

Classifications:

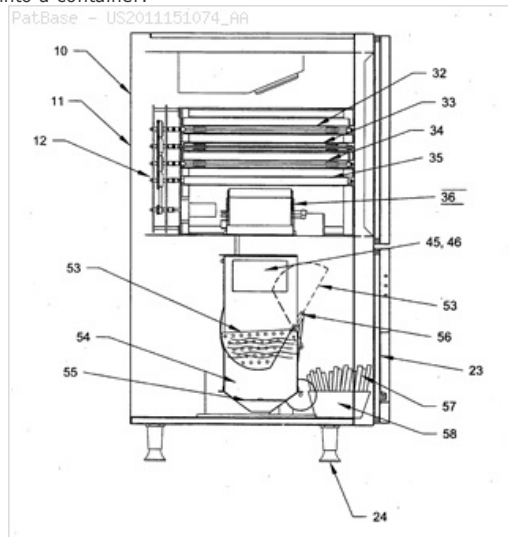
International (IPC 8-9): A23L1/01 A23L5/10 A47J36/00

A47J37/12 (Advanced/Invention)

CPC: A47J37/1219 A47J37/1228 A23L5/12

European: A23L1/01B2 A47J37/12C A47J37/12E

US: 426/233 426/233P 99/334 99/334S 99/404 99/404S 99/407 99/407S 99/408 99/408S



Family:

Publication number	Publication date	Application number	Application date
US2011151074 AA	20110623	US20100926852	20101213

Priority:

US20090287424P 20091217 US20100926852 20101213

Probable Assignee: BRANTLEY CHARLES W

Assignee(s): (std): BRANTLEY CHARLES W ; TITEN HARVEY

Inventor(s): (std): BRANTLEY CHARLES W ; TITEN HARVEY

10) Family number: 11601171 (US5142968A)

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Title: Automated deep fat fryer

Abstract: An automated system for storing and cooking french fried potatoes includes a refrigeration and storage assembly and unique transport system which is easily used with fryers of a commercial type. The transport system includes a horizontal and vertical transport assembly for moving baskets of fries to and from the one or more fryers, with the vertical transport assembly being adapted to lower the basket into the fryer as well as support the basket above the fryer after cooking so as to allow the basket to drain. In accordance with another aspect of the present invention the refrigeration system is such and the strips are oriented all in substantially the same direction before being loaded into a basket so as to enable the fries to be cooked with little or no sticking without requiring the operator to shake the potatoes during or following cooking.

Classifications:

International (IPC 8-9): A47J37/12 B65H7/00 F25B5/04 F25D13/06

F25D21/04 F25D25/04 (Advanced/Invention);

A47J37/12 F25B5/00 F25D13/00 (Core/Invention)

International (IPC 1-7): A47H37/12 A47J27/00 A47J37/00 A47J37/12

B65B21/02 B65H7/00 F25D21/04 F25D25/00 F25D25/02 F25D25/04

G07F11/00

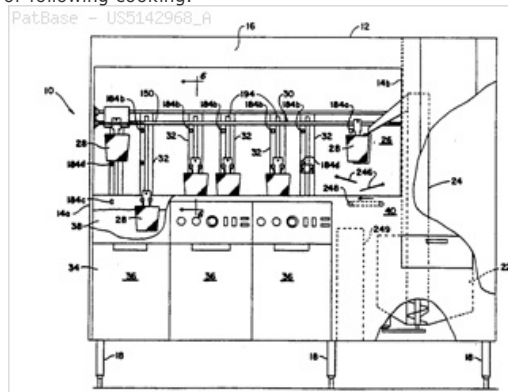
CPC: A47J37/1219 F25B5/04 A47J37/1228 F25D13/06

European: A47J37/12E F25B5/04 F25D13/06

US: 221/150HC 221/150R 221/81 222/146.6 34/500 414/331 414/331.04

414/404 62/266 62/378 62/382 62/440 62/63 62/630 623/780 99/334

99/357 99/404 99/407 99/409 993/340 993/570 994/40



Family:

Publication number	Publication date	Application number	Application date
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AU199171683 A1	19910724	AU19910071683	19901220
CA2072589 AA	19920625	CA19902072589	19901220
EP0507864 A1	19921014	EP19910902641	19901220
EP0507864 A4	19930421	EP19910902641	19901220
US5142968 A	19920901	US19910759606	19910913
US5224415 A	19930706	US19920831110	19920204
US5230279 A	19930727	US19930001275	19930107
US5305615 A	19940426	US19930001188	19930107
US5319939 A	19940614	US19930001733	19930107
WO9109558 A1	19910711	WO1990US07553	19901220

Priority:

US19890458982 19891229 WO1990US07553 19901220 US19910759606 19910913
US19920831110 19920204 US19930001733 19930107 US19930001188 19930107

Probable Assignee: GAS RES INST

Assignee(s): (std): GAS RES INST ; LITTLE INC A

Assignee(s): MCFADDEN DAVID H ; ABLECO FINANCE LLC AS AGENT ; ARTHUR D LITTLE ENTERPRISES INC ; ARTHUR D LITTLE INC ; CAMBRIDGE CONSULTANTS LTD ; GAS RESEARCH INST ; ENTERPRISE MEDICAL TECHNOLOGIES INC ; GAS RESEARCH INSTITUTE ; LITTLE ARTHUR D INC ; COLLINS JOHN M ; DIECKMANN JOHN ; CARON RICHARD N

Inventor(s): (std): MCFADDEN DAVID H ; CARON RICHARD N ; COLLINS JOHN M ; FARRA ROBERT ; BARNES KEVIN P ; HOEKSTRA JOOP F ; HOSMER THOMAS P ; DIECKMANN JOHN

Inventor(s): DAVID H MCFADDEN ; JOHN DIECKMANN ; RICHARD N CARON ; JOHN M COLLINS

Agent(s): MACRAE AND CO

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CM DE DK ES FI FR GA GB GR HU IT JP KP KR LI LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG

11) Family number: 65394205 (US2017103647A)

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Title: VISIBLE LIGHT COMMUNICATION OF AN ACCESS CREDENTIAL IN AN ACCESS CONTROL SYSTEM

Abstract: This disclosure provides methods, systems, and devices for communication of authentication information in an access control system. The authentication information may be transmitted to an electronic locking device configured to restrict access to an entry point of the access control system. In various embodiments, a smart device comprises a light-emitting diode (LED) and a wireless networking radio for exchanging access control information with a remote server. The smart device may receive information from the remote server that configures the LED to present authentication information as an optical signal. The electronic locking device may comprise a photodetector arranged to confront a user holding the smart device so as to receive an optical signal emitted by the smart device. According to various embodiments, the electronic locking device may be configured to respond to the authentication information conveyed by the optical signal by unlocking the entry point.

Classifications:

International (IPC 8-9): A23D7/005 A23D7/01 A23D7/02 A23J3/16 A23L13/00 A23L13/40 A23L19/00 A23L5/10 A23P20/10 G05B19/00 G06F1/32 G06F1/3287 G07C9/00 G08C23/04 H04B10/00 H04B10/116 H04B10/2513 H04L29/06 H04Q1/00 H04W12/06 H04W12/08 H04W4/02 H04W4/14 H04W4/70 H04W4/80 H04W4/90

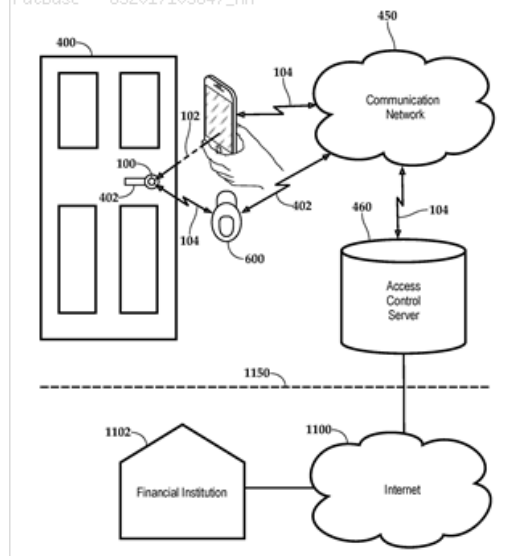
H04W84/12 (Advanced/Invention);

H04B10/2513 H04W84/12 (Advanced/Non-invention)

International (IPC 1-7): A23D7/005 A23D7/01 A23J3/16 G07C9/00
CPC: H04B10/116 G05B19/00 H04Q1/00 G07C9/00 G07C9/00174 G07C2009/00785 G07C2009/00841 G07C2009/00865 G07C2209/62 G08C23/04 H04W4/027 H04W4/14 H04W4/70 H04W4/80 H04W4/90 H04W12/00504 H04W12/06 H04W12/08 H04W84/12 G06F1/3287 G07C9/00182 G07C9/00571 G07C9/28 H04B10/2513 H04L63/10 A23D7/0053 A23L5/12 A23L13/03 A23L13/43 A23L19/18 A23L29/212 A23L29/219 A23P20/11 A23D7/02 A23L19/00 A23V2002/00 H04W12/0608 H04W12/0802

US: 1/1 398/106 426/302

PatBase - US2017103647_AA



Family:

Publication number	Publication date	Application number	Application date
AU2016334381 AA	20180419	AU20160334381	20161009
AU2016360519 AA	20180322	AU20160360519	20161115
BR112018007203 A2	20181016	BR20181107203	20161009
BR112018008942 A2	20181030	BR20181108942	20161115
BR112018008942 A8	20190226	BR20181108942	20161115
CA2998692 AA	20180314	CA20162998692	20161115
CL2018001062 A1	20181207	CL20180001062	20180423
CN108289468 A	20180717	CN201680067158	20161115
CO20180004575 A2	20180731	CO20180004575	20180427
CO20180004909 A2	20180731	CO20180004909	20180509
DE602016023058 D1	20191114	DE201660023058T	20161115

EP3360114 A1	20180815	EP20160791143	20161009
EP3379937 A1	20181003	EP20160801724	20161115
EP3379937 B1	20191023	EP20160801724	20161115
IN201817007631 A	20180706	IN201817007631	20180228
MX2018004182 A1	20180926	MX20180004182	20161009
MX2018005975 A1	20181109	MX20180005975	20161115
RU2018121143 A	20191230	RU20180121143	20161115
RU2018121143 A3	20200305	RU20180121143	20161115
US2017103647 AA	20170413	US20160289116	20161007
US2018082577 AA	20180322	US20170811478	20171113
US2018096593 AA	20180405	US20170809917	20171110
US2018343883 AA	20181206	US20160778532	20161115
US9847020 BB	20171219	US20160289116	20161007
US10373486 BB	20190806	US20170811478	20171113
WO17062925 A1	20170413	WO2016US56203	20161009
WO17089174 A1	20170601	WO2016EP77700	20161115

Priority:

US20150239884P 20151010	EP20150196502 20151126	US20160289116 20161007
WO2016US56203 20161009	EP20160801724 20161115	RU20180121143 20161115
WO2016EP77700 20161115	US20170809917 20171110	US20170811478 20171113

Probable Assignee: VIDEX INC

Assignee(s): (std): DE PRODUITS NESTLE SA SOC ; VIDEX INC ; VDEX INC ; NESTEC SA ; NESTLE SA

Assignee(s): NESTEC S A ; HANLE CHRISTOPH ; MARITZ DIRK JACOBUS ; DES PRODUITS NESTLE SA SOC ; FEZER RAMONA JASMIN ; GADDIPATI SANYASI

Inventor(s): (std): DAVIS PAUL R ; DAVS PAUL R ; FEZER RAMONA JASMIN ; FEZER RAMONA JASMN ; GADDIPATI SANYASI ; GADDPAT SANYAS ; HANLE CHRISTOPH ; HANLE CHRSTOPH ; MARITZ DIRK JACOBUS ; MARTZ DRK JACOBUS ; SANYASI GADDIPATI ; RAMONA JASMIN FEZER ; CHRISTOPH HANLE ; DIRK JACOBUS MARITZ ; PAUL R DAVIS ; DAVIS R PAUL

Inventor(s): DAVIS R ; PAUL DAVIS R

Agent(s): HOULIHAN² PTY LTD; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ESTUDIO CAREY LTDA; ALICIA LLOREDA RICAURTE; LUIS FELIPE CASTILLO GIBSON; HANNA MOORE AND CURLEY; DINGER HANSJOERG; MATTHEW D; ESKUE MATTHEW D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 3828209 (US3701872A)

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Title: HEATING AND LOADING IMPLEMENT FOR MICROWAVE ENERGY

Abstract: A process and an implement for converting microwave energy into heat energy which includes a body having a plurality of resistive particles therein. Upon subjecting the particles to microwave irradiation, a plurality of electric arcs are generated throughout the particles, thereby resulting in the microwave energy being converted into heat energy, and the electric arcs serving as a load for the microwave irradiation source. The implement is particularly useful with microwave ovens.

Classifications:

International (IPC 8-9): A23L1/01 A23L3/365 A23L5/10 A47J36/02

F26B3/347 H05B6/64 H05B6/74 H05B6/80 (Advanced/Invention);

A23L1/01 A23L3/365 F26B3/32 H05B6/64 (Core/Invention)

International (IPC 1-7): A23L1/00 A23L1/01 B65B29/00 B65B29/08

F26B3/28 H05B6/64 H05B9/06

CPC: H05B6/6402 H05B6/74 A47J36/027 H05B6/6494 A23L5/15

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European: A23L1/01F A23L3/365 A47J36/02M F26B3/347 H05B6/64A

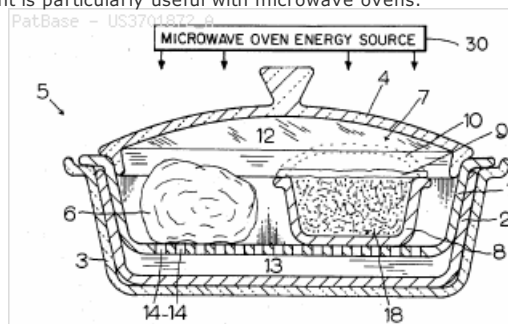
H05B6/64T4C H05B6/74

US: 206/204 206/205 219/10.55E 219/10.55M 219/703 219/712 219/725

219/729 219/730 219/733 219/752 219/756 219/759 219/763 229/87.08

229/87F 34/259 34/4 426/107 426/113 426/124 426/232 426/234

426/241 426/243 426/302 426/393 426/412 426/523 99/425 99/426



Family:

Publication number	Publication date	Application number	Application date
US3701872 A	19721031	US19680704389	19680209
US3731037 A	19730501	US19710193940	19711029
US3777099 A	19731204	US19720293006	19720928
US3854023 A	19741210	US19730391146	19730823
US3881027 A	19750429	US19730325330	19730122
US3985990 A	19761012	US19740529052	19741203
US3985991 A	19761012	US19730400416	19730924
US4103431 A	19780801	US19760713235	19760810
US4390554 A	19830628	US19800129360	19800311
US4390555 A	19830628	US19800173006	19800728

Priority:

US19650470809 19650709	US19650483144 19650827	US19680704389 19680209
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US19710193940 19711029	US19720281182 19720816	US19720381182 19720816
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US19790004324 19790117	US19800129360 19800311	US19800173006 19800728

Probable Assignee: LEVINSON M
Assignee(s): (std): LEVINSON M ; LEVINSON MELVIN L
Assignee(s): MELVIN L LEVINSON ; LEVINSON M US
Inventor(s): (std): LEVINSON M ; LEVINSON MELVIN L
Inventor(s): MELVIN L LEVINSON ; LEVINSON M US

13) Family number: 67152233 (IN201741032570A)

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Title: FOOD GAME TOYS

Abstract: This invention is about a new class of toys called Food Game Toys. Food Game Toys enable users to play digital games using physical food. This disclosure provides details about Food Game Toys in action and various ways of interacting with Food Game Toys, which make physical food inherently entertaining. This invention can effectively convert a restaurant catering food to customers into a digital game store that facilitates digital gaming centered around physical food among diners. This application discloses Food-Games exhibiting dynamically adjustable game characteristics/levels based on changing states of consumption of the said physical food. It also describes physical food exhibiting dynamically adjustable/programmable play characteristics in the Food-Game environment. The present invention provides users the ability to add annotations on physical food and to exchange messages with each other through physical food. The present invention also provides a Food-Game Marketplace to create Food-Game toys out of physical food, and to distribute the said Food-Game toys to a large community. This application also discloses dynamically re-programmable FoodMarks. FoodMarks are identification arrangements made of physical food.

Classifications:

International (IPC 8-9): A63F13/00 A63F9/24 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201741032570 A	20171006	IN201741032570	20170914

Priority:

IN201741032570 20170914

Probable Assignee: MAHESH BABU MARIAPPAN
Assignee(s): MAHESH BABU MARIAPPAN
Inventor(s): MAHESH BABU MARIAPPAN

14) Family number: 8377286 (WO9311690A1)

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Title: APPARATUS, COMPONENTS AND METHOD FOR PREPARING, COOKING AND DISPENSING INDIVIDUAL ORDERS OF A HOT FOOD PRODUCT

Abstract: Unitized and modular food ingredient mixing and forming units and french frying units are disposed within a vending machine cabinet (50) in adjacent systems to mix, form and french fry potatoes on an individual order basis. The french frying units receive, by gravity uncooked potatoes formed in french fry potato configuration by the respective mix and form units (92, 102) and discharge the cooked french fries by gravity to an order pick-up. The mix and form units (92, 102) receive dehydrated potato mix (200) from a storage canister (160) in selected quantity, then add heated water (630) and by an air cylinder (420) operated piston tamp (430) and extrude the water/ingredient mixture through an extrusion die (580) to fall into the french fry module. A frying vessel (800) in the french fry module includes a heated plate (840) to heat the oil to an elevated temperature above that of cooking oil heated in an oil reservoir (860) and continuously pumped to and through the frying vessel (800) while frying.

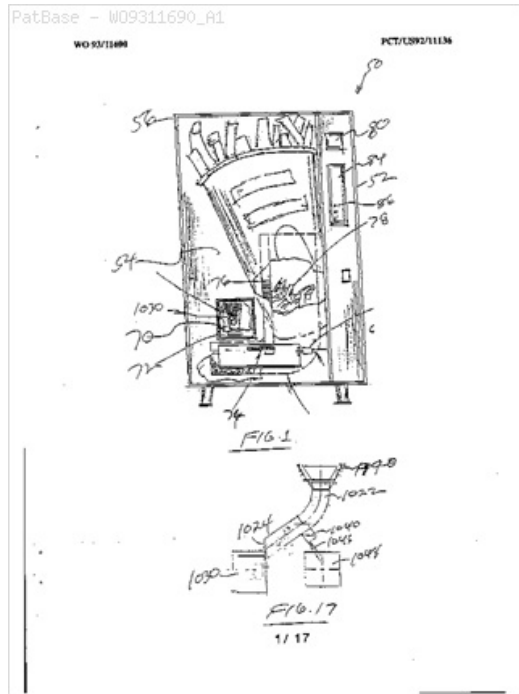
Classifications:

International (IPC 8-9): A47J37/12 G07F9/10 (Advanced/Invention);
A47J37/12 G07F9/10 (Core/Invention)

International (IPC 1-7): A47J37/12

CPC: A47J37/1228 A47J37/1233 G07F17/0078 G07F17/0085

European: A47J37/12E A47J37/12F G07F17/00F4 G07F17/00F4B



Family:

Publication number	Publication date	Application number	Application date
AU199334179 A1	19930719	AU19930034179	19921214
WO9311690 A1	19930624	WO1992US11136	19921214

Priority:

US19910807070 19911213 US19920990616 19921214 WO1992US11136 19921214

Probable Assignee: LANUZA ARTURO

Assignee(s): (std): ADELAIDE HOLDINGS INC ; ARTURO LANUZA ; BALAN SAMUEL ; LANUZA ARTURO ; SAMUEL BALAN

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IE IT JP KP LU MC MG ML MN MR MW NL NO PL PT RO RU SD SE SN TD TG

15) Family number: 16204300 (US5168795A)

© PatBase

Title: Automatic food frying and vending system

Abstract: An automatic food frying and vending system having a refrigerated storage chamber for storing food material to be fried and a frying chamber for frying material in cooking oil are installed in the main body of the automatic food frying and vending system in discrete sections designated for their respective purposes. The refrigerated chamber includes a stocker unit for receiving and keeping a number of packed containers, each sealed by a lid. A feeding device is provided with a holder for receiving from a conveying device the sealed container and inverting the container. The holder and a cutter is disposed on a movable table which moves in a substantially horizontal direction, so that, when the container is transferred to the holder, the holder is positioned in the vicinity of the storage chamber, and, when the sealed lid of the container is opened, the cutter is positioned over a frying basket in the frying chamber to enable the food material to be dropped by their own weight into the frying basket simultaneously with the opening of the sealed lid. A guide member covers the top of a cup supported on a placement table. After filling with the cooked food, the table moves downwardly for removal of the filled cup from a takeout port.

Classifications:

International (IPC 8-9): A47J37/12 G07F11/58 G07F11/70 G07F13/10

G07F9/10 (Advanced/Invention);

G07F11/70 G07F13/10 (Core/Invention)

International (IPC 1-7): A47J37/12 G07F11/70 G07F13/10 G07F9/10

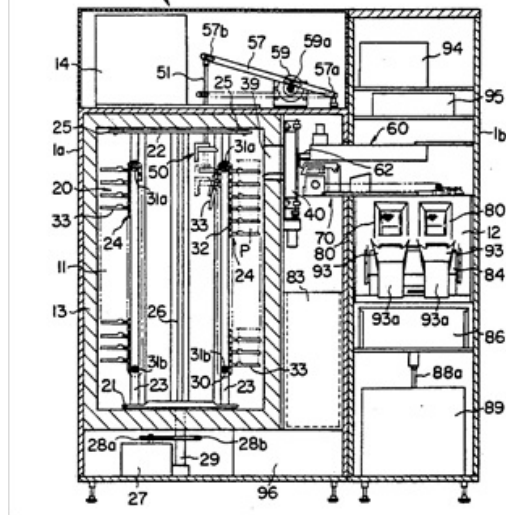
CPC: A47J37/1228 G07F11/58 G07F17/0078 G07F17/0085

European: A47J37/12E G07F11/58 G07F17/00F4 G07F17/00F4B

US: 221/150A 221/150HC 99/326 99/336 99/357 99/407 99/409

JP F-Term: 3E047 3E047/AA01 3E047/AA10 3E047/BA10 3E047/CA02 3E047/CB01 3E047/CC01 3E047/DB08 3E047/GA03 3E047/GA04 3E046 3E046/AA04 3E046/BA01 3E046/BA06 3E046/BB02 3E046/BB05 3E046/CA11 3E046/CB02 3E046/CB08 3E046/DA01 3E046/DA02 3E046/EA12 3E046/EA20 3E046/EB01 3E046/FA03 3E046/FA04 3E046/FA10 3E046/GA08 3E046/HA01 3E046/HA02 3E046/HA03 3E046/HA04 3E046/HA06 3E046/HA10 4B059 4B059/AA06 4B059/AB02 4B059/AD14 4B059/BE02

JP F-Index: G07F13/10/D G07F13/10/102 A47J37/12/361 G07F11/70/Z

**Family:**

Publication number	Publication date	Application number	Application date
AT122488 E	19950515	AT19910120489T	19911129
CA2056748 AA	19920530	CA19912056748	19911128
DE69109632 D1	19950614	DE19916009632	19911129
DE69109632 T2	19960125	DE19916009632T	19911129
EP0488351 A1	19920603	EP19910120489	19911129
EP0488351 B1	19950510	EP19910120489	19911129
JP1939647 C3	19950609	JP19900333168	19901129
JP2092984 Y	19961122	JP19900129005U	19901130
JP4086988 U1	19920728	JP19900129005U	19901130
JP4199496 A2	19920720	JP19900333168	19901129
JP6064647 B4	19940822	JP19900333168	19901129
JP7010457 Y2	19950308	JP19900129005U	19901130
US5168795 A	19921208	US19910795372	19911121

Priority:

JP19900333168 19901129 JP19900129005 19901130 JP19900129005U 19901130
CA19912056748 19911128

Probable Assignee: HIGASHI HIROSHIMA GOLF SHINKO

Assignee(s): (std): DAIKURE KK ; HIGASHI HIROSHIMA GOLF SHINKO

Assignee(s): HIGASHI HIROSHIMA GOLF SHINKO K K ; HIGASHI HIROSHIMA GOLF SHINKO KK ; HIGASHI HIROSHIMA GOLF SHINKO KABUSHIKI KAISHA ; KABUSHIKI KAISHA DAIKURE ; HIGASHI HIROSHIMA GOLF SHINKO K K HIROSHIMA JP ; OKADA KATSUMI ; DAIKURE A CORP KK

Inventor(s): (std): OKADA KATSUMI

Inventor(s): OKADA KATSUMI SETAGAYA KU TOKYO JP

Agent(s): ROBIC

Designated states: AT BE CH DE ES FR GB GR IT LI NL SE

16) Family number: 54590471 (US2014208957A)

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Title: ELECTRONIC DEVICE

Abstract: A microwave oven of the present invention includes: a liquid crystal touch panel configured to display display screen images each including operation buttons, each of which accepts input from a user; a proximity detector portion configured to detect, as proximity input from the user, proximity of the user to the operation buttons; a heating control portion and a display control portion configured to execute functions in accordance with the input to the operation buttons, the functions being respectively associated with the operation buttons; a standard button image storage portion configured to store proximity input enable/disable information pieces such that each of the proximity input enable/disable information pieces is associated with at least a part of the display screen image, the proximity input enable/disable information pieces each indicating whether to permit the proximity detector portion to detect the proximity input; and an enable/disable determining portion configured to determine based on the proximity input enable/disable information piece whether to permit the proximity detector portion to detect the proximity input.

Classifications:

International (IPC 8-9): F24C15/00 F24C7/02 G06F3/041

G06F3/0488 (Advanced/Invention)

CPC: G06F3/0488 H05B6/6435 G06F3/041 F24C7/082 G06F2203/04101

G06F2203/04108

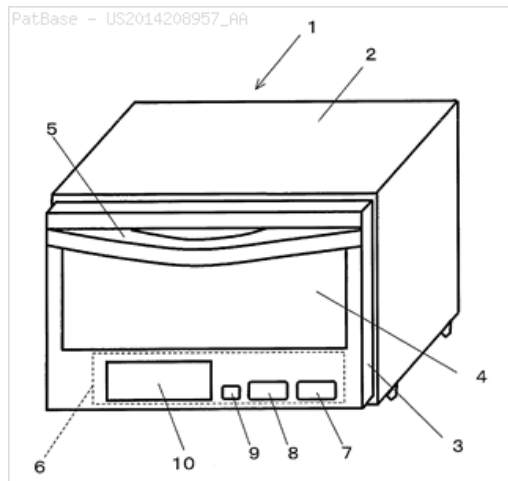
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JP F-Term: 3L088 5B068 5E501 5E555 5E555/AA04 5E555/BA15

5E555/BB15 5E555/BC01 5E555/CA12 5E555/CB22 5E555/CB33

5E555/DB20 5E555/DC26 5E555/FA14

JP F-Index: F24C15/00/H G06F3/041/580 G06F3/048/620 G06F3/0488



Family:

Publication number	Publication date	Application number	Application date
CN103874976 A	20140618	CN201380003443	20130214
CN103874976 B	20180518	CN201380003443	20130214
EP2816462 A1	20141224	EP20130749258	20130214
EP2816462 A4	20150211	EP20130749258	20130214
EP2816462 B1	20181219	EP20130749258	20130214
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JP6052740 B1	20161227	JP20140500110T	20130214
US2014208957 AA	20140731	US20130342739	20130214
WO13121785 A1	20130822	WO2013JP00811	20130214

Priority:

JP20120029236 20120214 JP20120211825 20120926 JP20120220897 20121003
JP20120279006 20121221 JP20120287103 20121228 WO2013JP00811 20130214

Probable Assignee: PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO LTD

Assignee(s): (std): MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; PANASONIC CORP

Assignee(s): PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO LTD

Inventor(s): (std): NAKANO IKUE ; DOU JIANLAN ; IMAI HIROHISA

Agent(s): SCHWABE SANDMAIR MARX; PATENT CORPORATE BODY ARCO PATENT OFFICE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

17) Family number: 44983475 (US2010116150A)

© PatBase

Title: CONTROLLED DYNAMIC RADIANT FRYING OVEN

Abstract: A controlled dynamic radiant (CDR) oven uses a dynamic heating method to reproduce food material changes that occur during the frying process without immersing the food in oil. The CDR oven includes a conveyance system for moving food along a radiant frying path having various heating zones. The conveyance system includes individual food portion carriers. Radiant emitters, for example IR emitters, are located behind a spatter screen in each heating zone and to each side of the radiant frying path. Different heating zones utilize different radiant emissions to achieve various heat fluxes and heat profiles, for example, mimicking that of an oil immersion frying heat profile. The radiant frying path can be optionally oriented along a substantially vertical axis to minimize the oven footprint. The CDR oven also can be combined with refrigeration/freezer unit and a payment and dispensing system for vending of food product.

Classifications:

International (IPC 8-9): A21B1/22 A21B1/42 (Advanced/Invention); A21B1/00 (Core/Invention)

CPC: A21B1/42 A21B2/00

European: A21B1/42 A21B2/00

US: 126/19.00RS 126/19R 219/388 219/388S 219/411 219/411S 99/443.00CP 99/443C 99/448 99/448S

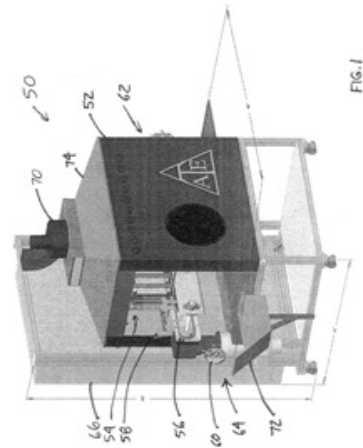


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US2010116150 AA	20100513	US20090616140	20091110

Priority:

US20080112780P 20081110 US20090616140 20091110

Probable Assignee: ANDERSON TOOL AND ENGINEERING

Assignee(s): (std): ANDERSON TOOL AND ENGINEERING

Assignee(s): ANDERSON TOOL AND ENGINEERING CO INC

Inventor(s): (std): FIOCK TED J ; METZ ROBERT J ; DELLA VALLE GENE F ; HAZELBAKER WILLIAM L

Agent(s): INNOVATION LAW OFFICE OF DENNIS SCHELL

18) Family number: 57879508 (US2014349256A)

© PatBase

Title: SMART WATCH AND HUMAN-TO-COMPUTER INTERFACE FOR MONITORING FOOD CONSUMPTION

Abstract: This invention is a device and system for monitoring a person's food consumption comprising: a wearable sensor that automatically collects data to detect probable eating events; a voluntary human-to-computer interface that is used by the person to enter food consumption data wherein the person is prompted to enter food consumption data when an eating event is detected by the wearable sensor; and a data analysis component that analyzes food consumption data to estimate the types and amounts of ingredients, nutrients, and/or calories that are consumed by the person. In an example, the wearable sensor can be part of a smart watch or smart bracelet. In an example, the voluntary human-to-computer interface can be part of a smart phone. The integrated operation of the wearable sensor and the voluntary human-to-computer interface disclosed in this invention offers accurate measurement of food consumption with low intrusion into the person's privacy.

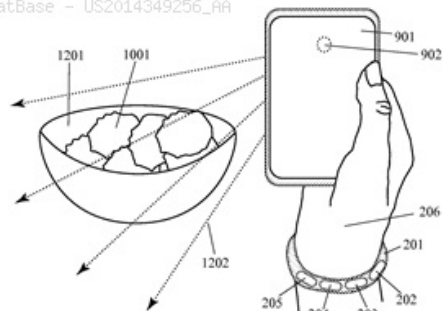
Classifications:

International (IPC 8-9): A47G21/02 G06F1/16 G06F17/00 G06F19/00 G09B19/00 (Advanced/Invention)

CPC: G06F1/163 A47G21/02 G06F19/3475 G09B19/0092

US: 434/127

PatBase - US2014349256_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2014349256 AA	20141127	US20130901113	20130523
US9529385 BB	20161227	US20130901113	20130523

Priority:

US20130901113 20130523

Probable Assignee: MEDIBOTICS LLC

Assignee(s): (std): CONNOR ROBERT A ; MEDIBOTICS LLC
Inventor(s): (std): CONNOR ROBERT A

19) Family number: 2219547 (US4438683A)

PatBase

Title: APPARATUS FOR DISPENSING INDIVIDUAL ORDERS OF A HOT FOOD PRODUCT AND COMPONENTS USABLE THEREWITH

Abstract: An apparatus and method for dispensing individual orders of a hot food product. The apparatus is designed to use a food product provided in a dehydrated form, such food product being readily reconstituted by the addition of a liquid. The apparatus includes a mechanism for delivering an amount of dehydrated food product corresponding to the size of an individual order, a chamber and system for rehydrating the product, a mechanism for cutting rehydrated product forced out of the chamber, a cooking device for the severed product, and a conveyor for delivering cooked product. The invention further provides a lever that combines a closure for a carrier of dehydrated product with a shower head for furnishing water for reconstituting the product, and provides a device for cooking and for conveying rehydrated product.

Classifications:

International (IPC 8-9): A21C1/00 A21C11/02 A21C11/16 A21C3/04 A21D8/02 A23L1/00 A23L1/01 A23L1/216 A47J37/12 B26D3/18 G07F11/70 G07F9/10 (Advanced/Invention); A21C11/00 A21D8/02 A23L1/00 A23L1/01 A23L1/214 A47J37/12 G07F11/70 G07F9/10 (Core/Invention); A47J (Subclass/Invention)

International (IPC 1-7): A21C11/02 A21D8/02 A23L1/00 A23L1/216 A23L1/217 A47J37/12 A47J43/00 G01N33/00

CPC: A21C1/00 A21C3/04 A47J37/1214 B26D3/18 A47J37/1228 G07F11/70 G07F17/0078 G07F17/0085

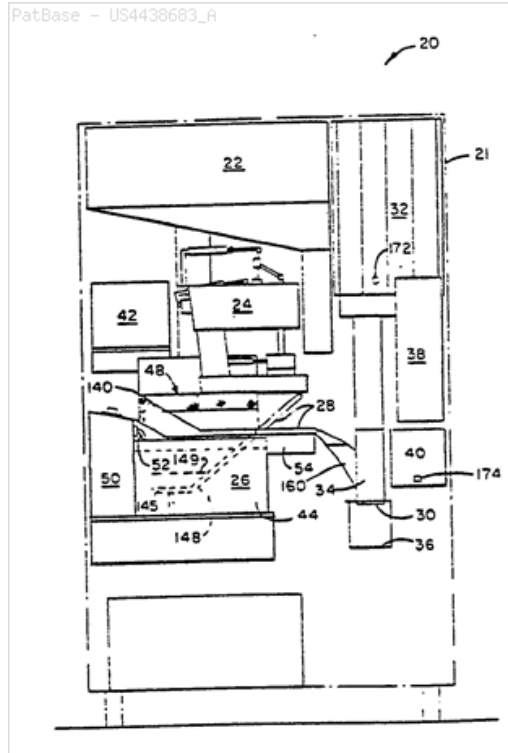
European: A21C1/00 A21C3/04 A47J37/12B A47J37/12E B26D3/18 G07F11/70 G07F17/00F4 G07F17/00F4B

US: 194/10 221/150A 222/372 426/231 426/438 426/509 426/516 426/523 99/330 99/335 99/353 99/355 99/356 99/357 99/404 99/407 99/443C 99/483 99/536

JP F-Term: 4B016 4B016/LG06 4B016/LP03 4B016/LP05 4B016/LT03 4B031 4B031/CA20 4B031/CC23 4B031/CF14 4B031/CG04 4B031/CG21 4B031/CH11 4B031/CL10 4B031/CM02 4B031/CM06 4B031/CM09 4B032 4B032/DB01 4B032/DP23 4B032/DP25 4B032/DP40 4B035 4B035/LC05 4B035/LC11 4B035/LE11 4B035/LE17 4B035/LG01 4B035/LG32 4B035/LG57 4B035/LK01 4B035/LP01 4B035/LP07 4B035/LP21 4B035/LP32 4B035/LP46 4B035/LP59 4B035/LT03 4B035/LT14 4B035/LT18

JP F-Index: A21C11/02 A21C11/16/A A21D8/02 A23L1/00 A23L1/01/Z A23L1/216 A23L19/12 A23L5/00 A23L5/10/Z

PatBase - US4438683_A



Family:

Publication number	Publication date	Application number	Application date
AT21615 E	19860915	AT19830901053T	19830225
AU198313765 A1	19830908	AU19830013765	19830225
AU198658634 A1	19861118	AU19860058634	19860429
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CA1193133 A1	19850910	CA19820415832	19821118
DE3365525 D1	19861002	DE19833365525	19830225
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EP0229080 A1	19870722	EP19860903048	19860429
EP0229080 A4	19870824	EP19860903048	19860429
FI78822 B	19890630	FI19830003926	19831026
FI78822 C	19891010	FI19830003926	19831026
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NO161156 C	19890712	NO19830003885	19831025
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US4540588 A	19850910	US19840593584	19840326
US4646627 A	19870303	US19850728208	19850429
WO8302883 A1	19830901	WO1983US00252	19830225
WO8606262 A1	19861106	WO1986US00895	19860429

Priority:

US19820352579 19820226 CA19820415832 19821118 EP19830901053 19830225
WO1983US00252 19830225 US19840593584 19840326 US19850728208 19850429
WO1986US00895 19860429

Probable Assignee: MATRIX INC

Assignee(s): (std): BARTFIELD WILLIAM ; MATRIX INC ; PRIZE FRIZE INC

Assignee(s): PRIZE FRIZE INC A CORP OF CA ; MATRIX US INC ; FISHER PETER ; FISHER PETER PO BOX ; MATRIX (US) INC

Inventor(s): (std): WILLIAM BARTFIELD ; BARTFIELD WILLIAM ; FERGUSON CHARLES L

Inventor(s): CHARLES L FERGUSON

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GRIFFITH HACK; OGILVY RENAULT LLP SENCRL SRL

Designated states: AT AU BE BR CH DE DK FI FR GB IT JP LI LU MC NL NO SE

20) Family number: 28637600 (US4089322A)

© PatBase

Title: Food processing technique

Abstract: A fast food service technique in which a meal is pre-cooked and then transferred to a tray in which the food is refrigerated at a temperature just above its freezing point to preserve the meal without degrading its texture or flavor. When the food is to be made available to customers, the cold trays are transferred to the open shelves of a heating apparatus which is adapted to blow hot air into the shelves to heat the food in the trays to a temperature well below its boiling point to prevent re-cooking thereof and to form a curtain of heated air surrounding the shelves to effectively isolate the trays from relatively cool ambient air, whereby the heated trays may be directly withdrawn by a customer from a shelf without heat loss and without the need to open a door.

Classifications:

International (IPC 8-9): A21B1/42 A23L3/36 A23L3/365 A47G23/04 A47J39/00 A47J39/02 A61B17/00 A61F7/00 B64D11/00 B65D51/16 B65D71/00 B65D81/34 F24C15/32 F25D25/00 F25D3/11 (Advanced/Invention);

A61B17/00 A61F7/00 A61F7/02 (Advanced/Non-invention); A47J39/00 B65D51/16 B65D81/34 F24C15/32 (Core/Invention); A47J (Subclass/Invention)

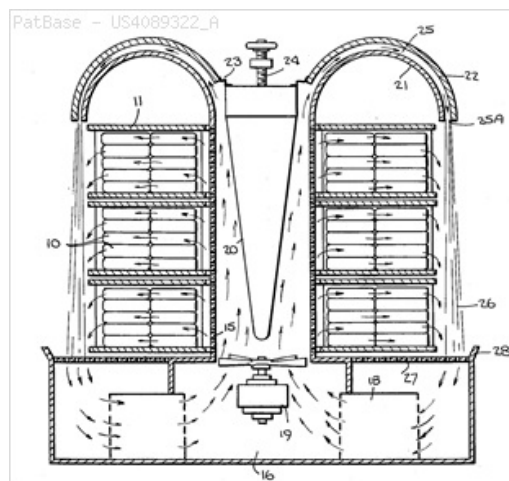
International (IPC 1-7): A21B1/22 A21B1/42 A47G23/04 A47J39/00 A47J39/02 A61F7/00 A61H33/08 B65D21/00 B65D21/2 B65D5/64 B65D51/16 F24C1/14 F24C15/32 F24C7/00 F24C7/08 F25B13/00 F25D17/02 F25D25/00 F25D3/10 F27D11/02 H05B1/00 **CPC:** A23L3/365 A47J39/003 A61B2017/00154 A61F2007/006 B64D11/0007 F24C15/325 F25D2400/30 B65D51/1666 B65D81/343 F25D25/00 A61F7/0085 A47J37/0623 A47J37/0641 A47J37/0722 A23L3/364 F25D2400/20 A23L3/362 B65D71/00 F25D2400/28 F25D3/11 A61B2017/00132 A61F2007/0296 F24C15/322 Y10S220/13

European: A23L3/365 A23L3/36D2 A23L3/36F2 A47J37/06C A47J37/06C4D A47J37/07C2 A47J39/00A A61F7/00F B64D11/00B B65D51/16D3B B65D71/00 B65D81/34C F24C15/32B F25D25/00 F25D3/11 K61B17/00C3 K61B17/00C4P K61F7/00D1 K61F7/02T2 R25D400/20 R25D400/28 R25D400/30

US: 126/110A 126/21.00A 126/21A 126/261 126/426 126/572 126/680 128/24.1 128/399 165/104.34 186/38 206/488 206/499 206/511 219/371 219/385 219/386 219/388 219/400 219/405 219/411 220/203.09 220/208 220/366 220/DIG.13 229/110 229/120 229/43 312/236 312/326 312/97.1 34/191 34/196 34/215 392/379 426/106 426/113 426/118 426/393 426/395 426/403 426/524 601/16 607/107 607/96 62/237 62/374 62/380 62/382 62/456 62/457.9 62/62 99/355 99/359 99/423 99/426 99/443C 99/447 99/448 99/480

JP F-Term: 4B066 4B066/AA05 4B066/BA01 4B066/BC20 4B066/BD01 4B066/BD23 4C099 4C099/AA05 4C099/CA20 4C099/EA02 4C099/EA20 4C099/JA01 4C099/LA30 4C099/PA01 4C099/PA06 4C099/TA02

JP F-Index: A47J39/02 A61F7/00/320/A



Family:

Publication number	Publication date	Application number	Application date
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AU198064755 A1	19810604	AU19800064755	19801127
AU539313 B2	19840920	AU19800064755	19801127
BE867596 A	19780918	BE19780188139	19780529
CA1109339 A1	19810922	CA19770284537	19770811
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EP0033030 A2	19810805	EP19800304251	19801126
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FR2361607 A1	19780310	FR19770024581	19770810
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JP53024070 A2	19780306	JP19770096178	19770812
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US4595008 A	19860617	US19830521262	19830808
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Priority:

AR19750259761 19750101	AR19750259761 19750818	US19760713977 19760812
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Probable Assignee: SUNSET LTD

Assignee(s): (std): ROORU GIIBAATO ; SIELY J G ; ROORU GAIBAATO ; SUNSET LTD ; SUNSET LIMITED ; ALARON CORP ; GUIBERT P ; GUIBERT R ; GUIBERT RAUL ; SUNSET LTD

Assignee(s): SIELY JG ; RAUL GUIBERT ; GUIBERT P ALARON CORP ; SUNSET LTD A PARTNERSHIP WHOSE GENERAL PARTNER IS ; SUNSET LTD A PARTNERSHIP GENERAL PARTNERS ARE RAUL ; SUNSET LTD GENERAL PARTNERS GUIBERT RAUL AND ALARO ; SUNSET LTD GELES A PARTNERSHIP WHOSE GENERAL PARTN ; SUNSET LTD A PARTNERSHIP CONSISTING OF RAUL GILBE ; SUNSET LTD A PARTNERSHIP CONSISTING OF RAUL GUIBER ; SUNSET LTD A PARTNERSHIP CONSISTING OF RAUL GILBER ; SUNSET LTD A PARTNERSHIP GENERAL PARTNERS GUIBERT

Inventor(s): (std): GUIBERT R ; GUIBERT RAUL ; R GUIBERT ; RAUL GUIBERT ; ROORU GIIBAATO ; ROORU GAIBAATO

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

Designated states: CH DE FR GB IT LI NL SE

21) Family number: 43459648 (IN01568CH2008A)

© PatBase

Title: FULLY AUTOMATIC CUP DISPENSER

Abstract: This fully automatic Cup Dispensers with auto refill feature, find ideal use at Water/Beverage Vending Machines. The Cup Dispenser is designed to hold several channels of Stacks of nested Cups. The advantage of this machine is, it offers automatic Cup Dispensing, auto reloading of next set of cups. The Cup dispensing mechanism is fully controlled with help of ECU motors and actuators and sensors. Fully automatic cup dispenser with auto cup refill feature gives more user friendly and requires no regular manual interference of loading cups because of huge storage capacity. When all the cups are dispensed, the ECU automatically reloads the next stack of nested cups from next channel with the help of cup detection and Channel position sensors. Whereas manual dispensers will have limited storage capacity and requires regular interference of storing cups. Fully Automatic Cup Dispenser Mechanism offers new advantages compared to existing manual dispensers. This system is ideally suited for Beverages/water/juice/aerated drinks/soup/Ice Cream/Noodles and other Fried Food Vending Machines.

Classifications:

International (IPC 1-7): B67D5/00

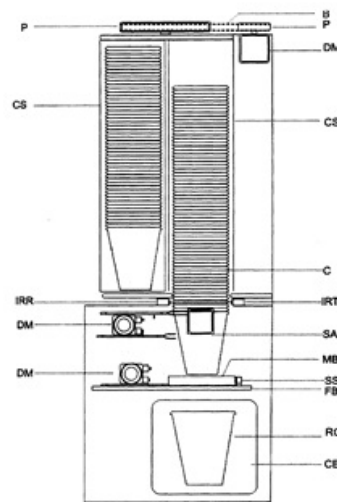


Fig.1: Fully Automatic Cup Dispenser Mechanism

(Haridas M)
Signature

Family:

Publication number	Publication date	Application number	Application date
IN01568CH2008 A	20090626	IN2008CH01568	20080627

Probable Assignee: M HARIDAS
Assignee(s): M HARIDAS
Inventor(s): M HARIDAS

22) Family number: 29324656 (US2003196558A)

© PatBase

Title: AUTOMATED GRILL

Abstract: An automated grill automatically transfers frozen food from a freezer component to grilling component by an automatic loading device in response to a signal. Frozen food is loaded in a loading side in the freezer component. When the signal is received indicating that the food is to be grilled, food in a feeding side is raised and delivered to the loading device. When a sensor detects that food is positioned in the loading device, the loading device removes the food from the freezer component and into the grilling component. The food is then grilled as it travels between two substantially vertical grilling structures each surrounded by a conveyor belt. Preferably, the conveyor belt is made of a non-stick coated Invar. A lateral sensor detects and compensates for lateral movement of the conveyor belts. After the food exits the grilling component, the food slides onto a heated holding area for serving.

Classifications:

International (IPC 8-9): A01K43/00 A23C3/00 A47J37/04

A47J37/12 (Advanced/Invention);

A01K43/00 A23C3/00 A47J37/04 A47J37/12 (Core/Invention)

International (IPC 1-7): A23L1/00 A47J37/04 A47J37/08 A47J37/12

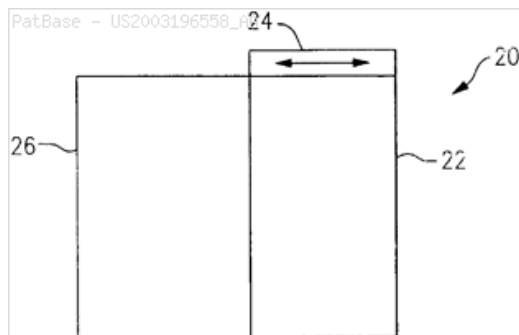
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European: A47J37/04D A47J37/12E

US: 221/150.0HC 221/150A 221/150HC 426/231 426/523 426/523P 426/524 62/381 99/325 99/339 99/352 99/357 99/373 99/386 99/389 99/391 99/393 99/443.00C 99/443C 99/484 99/494

JP F-Term: 4B040 4B040/AA08 4B040/AD22 4B040/AE20 4B040/CA05

JP F-Index: A47J37/04/101/Z

**Family:**

Publication number	Publication date	Application number	Application date
AU2003223673 AA	20031103	AU20030223673	20030416
AU2003223673 BB	20070913	AU20030223673	20030416
AU2003223673 BI	20080110	AU20030223673	20030416
CN1317993 C	20070530	CN20038008737	20030416
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US2006073253 AA	20060406	US20050284643	20051122
US7001626 BB	20060221	US20020124629	20020417
US8234972 BB	20120807	US20050284643	20051122
WO03088793 A1	20031030	WO2003US11944	20030416
WO03088793 B1	20040513	WO2003US11944	20030416

Priority:

US20020124629 20020417 WO2003US11944 20030416 US20050284643 20051122

Probable Assignee: RESTAURANT TECHNOLOGY INC

Assignee(s): (std): CARRIER COMMERCIAL REFRIGERATION INC ; CONLIN JAMES D ; FRANKEN THOMAS J ; FRANKLIN ANDREW PAUL ; GINNER RANDY L ; GLAVAN RONALD J ; GLAWE SCOTT A ; HILL DAVID A ; EWALD HENRY THOMAS ; CALZADA MANUEL ; CARRIER COMM REFRIGERATION INC ; CARRIER COMMERCIAL REFRIGERATI ; FRANKLIN ANDREW P ; EWALD HENRY T ; SANDS JEFFREY L ; NEWBERRY MICHAEL J ; PELLICANE JACK ; MCDONALDS CORP ; RESTAURANT TECHNOLOGY

Assignee(s): MCDONALD'S CORP ; RESTAURANT TECHNOLOGY INC ; CARRIER COMMERCIAL REFRIGERATIONS ; MCD ASIA PACIFIC LLC ; CARRIER COMMERCIAL REFRIGERATI CORP ; CARRIER COMMERCIAL REFRIGERATI MCDONALDS CORP ; MCDONALD S CORP ; CARRIER COMMERCIAL REFRIGERATION INC

Inventor(s): (std): SANDS JEFFREY L ; CONLIN JAMES D ; FRANKEN THOMAS J ; FRANKLIN ANDREW PAUL ; GINNER RANDY L ; GLAVAN RONALD J ; GLAWE SCOTT A ; HILL DAVID A ; NEWBERRY MICHAEL J ; PELLICANE JACK ; CALZADA MANUEL ; EWALD HENRY THOMAS ; JACK PELLICANE ; PAUL FRANKLIN ANDREW ; DAVID ; FRANKLIN ANDREW P ; EWALD HENRY T ; HENRY THOMAS EWALD ; JAMES D CONLIN ; RANDY L GINNER ; JEFFREY L SANDS ; RONALD J GLAVAN ; THOMAS J FRANKEN ; MICHAEL J NEWBERRY ; ANDREW PAUL FRANKLIN ; DAVID A HILL ; MANUEL CALZADA ; SCOTT A GLAWE ; SANDS JEFFREY L PELLICANE JACK ; CALDAZA MANUEL

Inventor(s): SANDS JEFFREY L PELLICANE JACK CONLIN JAMES D ; GLAWE SCOTT ; HILL DAVID ; GINNER RANDY ; CONLIN JAMES ; EWALD HENRY ; FRANKEN THOMAS ; FRANKLIN ANDREW ; NEWBERRY MICHAEL ; GLAVAN RONALD ; SANDS JEFFREY ; MANUEL CALDAZA

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; CARLSON GASKEY AND OLDS PC; CARLSON GASKEY AND OLDS; RYNDAL AND SURRI LLP

Designated states: AU CN DE GB IT JP SE

23) Family number: 55366782 (US2013336519A)

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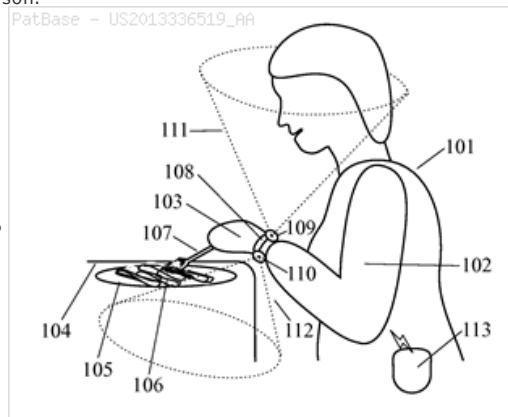
Title: WILLPOWER WATCH (TM) -- A WEARABLE FOOD CONSUMPTION MONITOR

Abstract: This invention is a wearable, automatic, and tamper-resistant device and method for monitoring and measuring food consumption and caloric intake. It can help people to manage their energy balance and weight. It can be embodied as: (a) one or more automatic-imaging members that are worn on a person from which these members collectively and automatically take pictures of the person's mouth and pictures of a reachable food source when the person eats; (b) a tamper-resisting mechanism which detects and responds if the operation of the one or more automatic-imaging members is impaired; and (c) an image-analyzing member which automatically analyzes pictures of the person's mouth and pictures of the reachable food source in order to estimate the types and quantities of food that are consumed by the person.

Classifications:

International (IPC 8-9): A41B1/08 A41B7/00 A41D13/12 A41D27/10 A41D27/20 A44C5/00 A44C9/00 A47G21/02 A61B19/00 A61B5/00 A61B5/01 A61B5/0205 A61B5/026 A61B5/03 A61B5/04 A61B5/0402 A61B5/0476 A61B5/0478 A61B5/0482 A61B5/0488 A61B5/053 A61B5/107 A61B5/11 A61B5/117 A61B5/145 A61B5/1455 A61B5/1468 A61B5/1477 A61B7/00 A61B7/04 A61B90/00 A61F5/00 A61M1/12 A61M21/00 A61M31/00 A61M5/142 A61M5/172 A61N1/365 A61N1/372 A61N2/00 A61N2/02 G01B11/25 G01B7/16 G01D5/353 G01J3/02 G01J3/10 G01J3/28 G01N21/15 G01N21/25 G01N21/27 G01N21/33 G01N21/35 G01N21/3554 G01N21/3563 G01N33/02 G01R27/02 G06F1/16 G06F17/00 G06F19/00 G06F3/01 G06F3/03 G06F3/0346 G06F3/044 G06K9/00 G06K9/20 G06K9/22 G06T1/00 G06T7/00 G09B19/00 G09B23/28 G09B5/00 G09B5/02 G16H20/60 H04N7/18 (Advanced/Invention); A41D1/00 A41D13/12 A41H1/02 A61B5/00 A61B5/0205 A61B5/021 A61B5/024 A61B5/0404 A61B5/0488 A61B5/053 A61B5/08 A61B5/107 A61B5/11 A61B5/1455 A61B90/00 G01N21/31 G06F1/16 G06F19/00 G06F3/01 G06K9/00 G09B19/00 (Advanced/Non-invention)

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US: 1/1 250/339.01 250/372 29/428 324/692 324/701 345/156 345/173 345/174 345/2.3 348/158 356/302 356/402 356/51 356/72 361/679.03 382/100 434/127 600/13 600/17 600/27 600/300 600/301 600/344 600/383 600/407 600/409 600/475 600/476 600/477 600/544 600/545 600/546 600/547 600/586 600/587 600/590 600/595 604/503 604/66 604/9 607/22 702/19 73/865.4

Family:

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Priority:

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Probable Assignee: MEDIBOTICS LLC

Assignee(s): (std): BEHYMER JEDIDIAH ; CONNOR ROBERT A ; HARDYMAN MATTHEW ; HERICKS MATT ; MEDIBOTICS LLC ; HOMMER GARRISON ; LOPEZ GUS ; SMIDA JOHN ; OLSON TYLER ; STEIN ALEX ; VALENCIA DANIEL ; MEDIBOTICS ; WONG ERIC

Inventor(s): (std): WONG ERIC ; VALENCIA DANIEL ; STEIN ALEX ; SMIDA JOHN ; OLSON TYLER ; LOPEZ GUS ; HOMMER GARRISON ; HERICKS MATT ; HARDYMAN MATTHEW ; BEHYMER JEDIDIAH ; CONNOR ROBERT A

24) Family number: 12019793 (US5575194A)

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Title: Electronic control system for a heating apparatus

Abstract: An electronic control system for controlling a heating apparatus. The control system accurately controls the temperature of a medium, while minimizing the wear of heating element components.

Classifications:

International (IPC 8-9): A21B3/18 A21B5/08 A47J27/08 A47J27/62 A47J36/32 A47J37/12 G04F3/00 G05D23/19

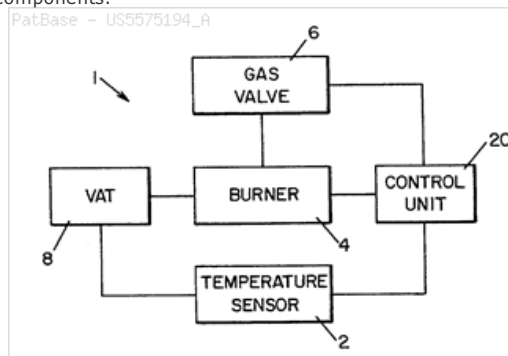
H05B1/00 (Advanced/Invention);
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International (IPC 1-7): A21B3/18 A21B5/08 A47J27/00 A47J27/62 A47J36/32 A47J37/12 G04F3/00 G05D23/19 G06F17/00 H05B1/00 H05B1/02

CPC: A47J27/0802 A47J27/62 A47J37/1266 G05D23/1917 G05D23/1951 G05D23/1913

European: A47J27/08C A47J27/62 A47J37/12K G05D23/19C6 G05D23/19D G05D23/19T

US: 219/441 219/494 219/497 219/505 219/508 700/300 700/306 702/130 708/133 99/325 99/327 99/328 99/329R 99/330 99/331 99/403 993/300



Family:

Publication number	Publication date	Application number	Application date
CA2144201 AA	19950918	CA19952144201	19950308
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Priority:

US19940210127 19940317	CA19952144201 19950308	CA19952247697 19950308
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Probable Assignee: AMETEK INC

Assignee(s): (std): TRIDELTA IND INC

Assignee(s): TRIDELTA IND ; TRIDELTA INDUSTRIES INC ; MAHER CHARLES A JR ; LARRICK RAYMOND ; AMETEK INC ; HONEYWELL INT ; HONEYWELL INT INC

Inventor(s): (std): MAHER JR CHARLES A ; LARRICK RAYMOND ; MAHER CHARLES A JR

Inventor(s): MAHER CHARLES A

Agent(s): OGILVY RENAULT LLP SENCRL SRL

25) Family number: 32081844 (NL1024563C)

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Title: VENDING MACHINE FOR HOT OR COLD FOOD PRODUCTS, BLOCKS COMPARTMENT DOOR WHEN PRODUCT INSIDE IS NO LONGER FRESH

Abstract: A control system (15) is designed to block the opening of a door (121-128) for a compartment (141-148) containing a given food product if the time that this product has been inside this compartment exceeds a pre-determined limit.

Classifications:

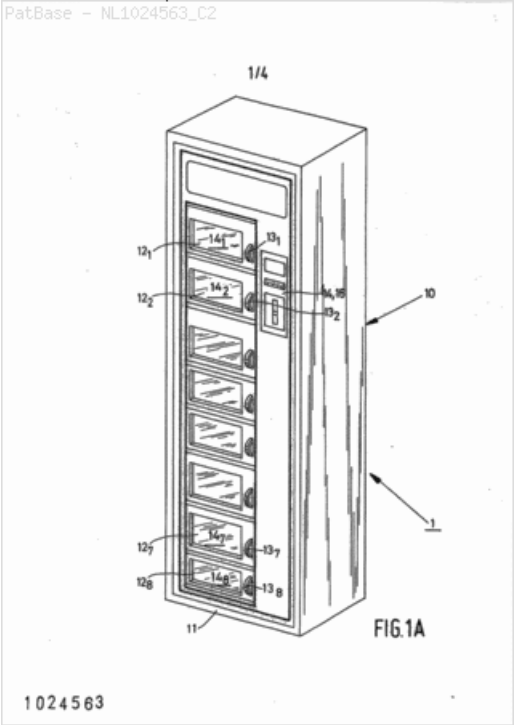
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G07F11/00 G07F5/00 G07F9/02 G07F9/10 (Core/Invention)

International (IPC 1-7): G07F11/62 G07F9/02 G07F9/10

CPC: G07F5/26 G07F9/026 G07F9/105 G07F11/62

European: G07F11/62 G07F5/26 G07F9/02D G07F9/10B

PatBase - NL1024563_C2



Family:

Publication number	Publication date	Application number	Application date
NL1024563 C2	20050420	NL20031024563	20031017

Priority:

NL20031024563 20031017

Probable Assignee: KLINKERS FRANS JOZEF

Assignee(s): (std): KLINKERS FRANS JOZEF

Assignee(s): FRANS JOZEF KLINKERS

Inventor(s): (std): KLINKERS FRANS JOZEF

Inventor(s): FRANS JOZEF KLINKERS

26) Family number: 34938848 (WO08139205A2)

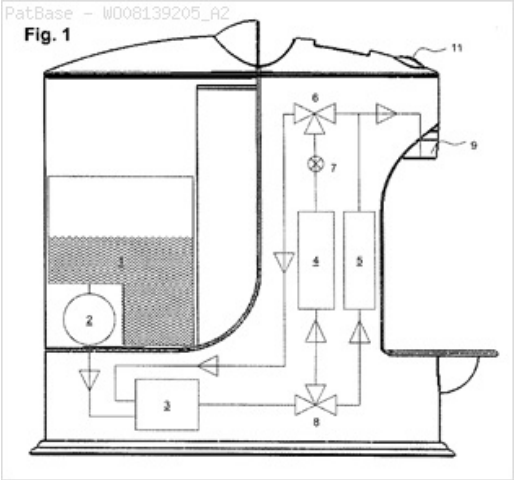
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Title: ELECTRICAL APPLIANCES

Abstract: An electric flow-through liquid dispenser including means for avoiding retaining liquid between the dispensing outlet and a heater or cooler. Instead, the liquid may be recirculated through the heater or cooler in the next dispensing operation. Alternatively, the liquid may be evacuated before the next dispensing operation. Alternatively, the heater or cooler may be disposed immediately behind the outlet, so that the retained volume of liquid is minimized. A flow-through heating apparatus comprising a heated flow path and a downstream depressurising means is also disclosed. Also disclosed is a superheated steam generator using a flow- through heater.

Classifications:

International (IPC 8-9): A47J27/21 A47J31/34 A47J31/46 A47J31/54 F22G1/16 F22G7/00 F24H1/12 F24H9/00 F24H9/20 H05B1/02 (Advanced/Invention); A47J27/21 A47J31/44 F22G1/00 F24H9/20 H05B1/02 (Core/Invention) **CPC:** A47J31/469 A47J201/00 F24H1/162 F24H9/2028 A47J27/21083 A47J31/545 H05B1/0269 A47J31/34 A47J31/542 F22B1/28 **European:** A47J27/21B4B A47J31/34 A47J31/46 A47J31/54A A47J31/54A1 F22B1/28 F24H1/16B F24H9/20A2D H05B1/02B2B2 K47J201/00



Family:

Publication number	Publication date	Application number	Application date
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GB200709432 A0	20070627	GB20070009432	20070516
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GB2452981 A1	20090325	GB20070018521	20070921
GB2452981 B2	20121017	GB20070018521	20070921
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WO08139205 A3	20090108	WO2008GB01692	20080515

Priority:

GB20070009432 20070516 GB20070018521 20070921 GB20070022934 20071122
EP20080750624 20080515 WO2008GB01692 20080515

Probable Assignee: OTTER CONTROLS LTD

Assignee(s): (std): COLLINSON MICHAEL ; GAETA ANTONIO MARTIN ; KLOPPERS GRADUS JOHANNES ; OTTER CONTROLS LTD ; SMITH DAVID ANDREW ; OTTER CONTROLS LTD GB

Assignee(s): OTTER CONTROLS LIMITED

Inventor(s): (std): GAETA ANTONIO ; SMITH DAVID ; JOHANNES KLOPPERS GRADUS ; MARTIN GAETA ANTONIO ; MICHAEL COLLINSON ; ANDREW SMITH DAVID ; CLOPES GRADUS JOHANNES ; CRIMSON MARSHALL ; SMITH DAVEY ANDREW ; SMITH DAVID ANDREW ; COLLINSON MICHAEL ; KLOPPERS GRADUS JOHANNES ; GAETA ANTONIO MARTIN

Inventor(s): GRADUS JOHANNES KLOPPERS ; ANTONIO MARTIN GAETA ; DAVID ANDREW SMITH ; DAVEY ANDREW SMITH ; MARSHALL CRIMSON ; GRADUS JOHANNES CLOPES

Agent(s): CROSS JAMES PETER ARCHIBALD; CROSS JAMES P A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

27) Family number: 30243861 (US5404797A)

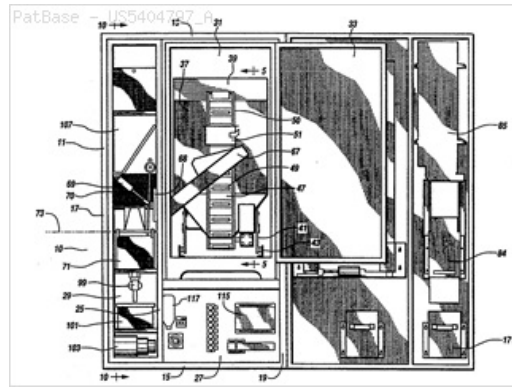
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Title: Apparatus for vending fried foods

Abstract: Disclosed is a vending machine for vending fried foods. The machine has a hopper for storing frozen food. The food is measured into a weigh basket and then transferred to a fry basket in a deep frier. The food is fried, and then delivered to the customer in a serving cup. The cooking oil in the deep frier can be replenished or even completely replaced at periodic intervals. The hopper can be moved forward out of the freezer and tilted forward to allow for easier cleaning and refilling. A stack of condiment packages is loaded into a tube, and the tube is inserted into a receiver. The first package rests on a support platform, and the receiver holds the tube at a position to secure all of the packages above the first. A push block on the end of a piston rod pushes the first package out from under the tube, and then retracts to allow the stack to fall to the support platform.

Classifications:

International (IPC 8-9): A47J37/12 G07F9/10 (Advanced/Invention); A47J37/12 G07F9/10 (Core/Invention) **International (IPC 1-7):** A47J27/00 A47J37/00 A47J37/12 G01F11/00 **CPC:** A47J37/1228 G07F17/0078 G07F17/0085 **European:** A47J37/12E G07F17/00F4 G07F17/00F4B **US:** 221/150HC 221/150R 99/357 99/407



Family:

Publication number	Publication date	Application number	Application date
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US5404797 A	19950411	US19940277834	19940720
WO9602176 A1	19960201	WO1995US09127	19950720

Priority:

US19940277834 19940720 WO1995US09127 19950720

Probable Assignee: SIMPLYFRY INC

Assignee(s): (std): SIMPLYFRY INC

Inventor(s): (std): MILLAR MARTY R ; MARTY R MILLAR

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG UZ VN

28) Family number: 32252998 (US2004118392A)

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Title: SPEED COOKING OVEN WITH GAS FLOW CONTROL

Abstract: A speed cooking oven is disclosed comprising a cooking cavity, a controller, thermal heating source, blower assembly, air directing means and a vent assembly. Hot air is circulated by the blower motor assembly into the oven cavity where the hot air is directed in a manner wherein a conflicting, colliding turbulent gas flow is directed at a food product providing for the rapid cooking of food products.

Classifications:

International (IPC 8-9): A21B1/00 A21B1/08 A21B1/22 A21B1/24 A21B1/26 A21B1/28 A21B1/36 A21B1/46 A21B1/48 A21B2/00 A23B4/03 A23B4/044 A23L1/00 A23L1/01 A23L5/10 A47J27/00 A47J37/00 A47J37/04 A47J37/06 A47J37/07 F24C1/00 F24C15/32 F24C7/02 H01Q1/42 H05B6/60 H05B6/64 H05B6/70 H05B6/72 H05B6/74 H05B6/78 H05B6/80 (Advanced/Invention); A21B1/00 A21B1/08 A21B1/46 A21B1/48 A21B2/00 A23L1/00 A47J37/04 A47J39/00 F24C15/32 F24C3/02 H05B6/72 (Advanced/Non-invention); A21B1/00 A21B2/00 A23L1/00 A23L1/01 A47J27/00 A47J37/00 A47J37/04 A47J37/06 F24C1/00 F24C15/00 F24C15/32 F24C7/02 H01Q1/42 H05B6/00 H05B6/64 H05B6/72 H05B6/80 (Core/Invention); A47J37/04 (Core/Non-invention)

International (IPC 1-7): A21B A21B1/00 A21B1/08 A21B1/22 A21B1/26 A23B4/044 A23L1/00 A47J27/00 F02C15/32 F24C1/00 F24C15/32 F27D11/00 H05B6/70 H05B6/72

CPC: H01Q1/42 A21B5/02 A23L5/15 A23L5/12 A21B1/26 A21B1/08 A21B1/00 A21B1/46 A21B1/24 A21B1/36 A47J37/0647 F24C15/32 A47J39/003 F24C15/325 H05B6/6485 H05B6/6402 H05B6/708 H05B6/72 A21B1/48 H05B6/60 H05B6/6441 H05B6/6473 H05B6/782 A23L5/17 A21B1/245 A47J37/0641

European: A21B1/24B A21B1/26 A21B1/48 A23L1/01B2 A23L1/01F A23L1/01H F24C15/32B F24C15/32B2 H01Q1/42 H05B6/64A H05B6/64T1 H05B6/64T2A H05B6/70W1 H05B6/72 K47J39/00A

US: 1/1 126/19.00R 126/19R 126/21 126/21.00A 126/21.00AP 126/21.00AS 126/21.00R 126/21A 126/21R 126/273.00R 126/273.00RS 126/273R 126/299.00D 126/299.00R 126/299D 126/299R 219/385 219/385S 219/391 219/398 219/399 219/400 219/400P 219/400S 219/405 219/679 219/681 219/681P 219/681S 219/691 219/695 219/696 219/746 219/748 219/751 343/872 343/872P 426/243 426/523 426/523P 99/324 99/324P 99/325 99/325S 99/330 99/330P 99/330S 99/339 99/339P 99/339S 99/345 99/345S 99/348 99/348S 99/357 99/357S 99/422 99/443.00C 99/443C 99/447 99/447S 99/451 99/474 99/475 99/476 99/476P 99/480

JP F-Term: 4B030 4B040 4B040/AA01 4B040/AA08 4B040/AC01 4B040/AD04 4B040/AD22 4B040/AE01 4B040/AE04 4B040/AE07 4B040/AE14 4B040/CA02 4B040/CA05 4B040/CA06 4B040/CA09 4B040/CA17 3L084 4B035 4B035/LC01 4B035/LC03 4B035/LC06 4B035/LE19 4B035/LP01 4B035/LP59 4B035/LT03 4B040/AB05 4B040/AC02 4B040/AC09 4B040/AC20 4B040/AD08 4B040/AE20 4B040/CA04 4B040/CB20

JP F-Index: A21B1/26 A21B1/28 A21B2/00 A47J37/04/101/Z A23L1/01/Z A23L5/10/Z A47J37/04/Z F24C1/00/370/A

Family:

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Priority:

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US20120615888	20120914				

Probable Assignee: GLOBAL APPLIANCE TECHNOLOGIES INC

Assignee(s): (std): DUKE MFG CO ; GLOBAL APPLIANCE TECH INC ; GLOBAL APPLIANCE TECHNOLOGIES ; MCFADDEN DAVID H ; TURBOCHEF TECH INC ; GLOBAL APPLIANCE TECHNOLOGIES INC ; TURBOCHEF TECHNOLOGIES INC ; MCFADDEN DAVID ; MC FADDEN DAVID H ; BOLTON DAVID A

Assignee(s): DUKE MANUFACTURING COMPANY ; BANK OF AMERICA NA ; TURBOCHEF TECHNOLOGIES INC CAROLLTON

Inventor(s): (std): MCFADDEN DAVID H ; DAVID H MCFADDEN ; MCFADDEN DAVID ; MC FADDEN DAVID H ; BOLTON DAVID A MCFADDEN DAVID ; BOLTON DAVID A

Inventor(s): BOLTON DAVID ; DAVID A BOLTON

Agent(s): E F WELLINGTON AND CO; EF WELLINGTON AND CO; SMART AND BIGGAR; WILSON GUNN; BOFF JAMES CHARLES; PHILLIPS AND LEIGH LLP; AZNAREZ PABLO; ELZABURU SLP ELZABURU SLP; DAVID A BOLTON; JOHN S PRATT ESQ KILPATRICK STOCKTON LLP; DAVID A; KILPATRICK STOCKTON LLP; RUSSELL DEAN W; DEAN W; KRISTIN M; KILPATRICK TOWNSEND AND STOCKTON LLP; PRATT JOHN S

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW