

Search history

Search 1: FT=(STOVE~ OR COOKER~ AND FIREWOOD~ AND INSULATING~) (Results 567)

Title: In situ recovery from a hydrocarbon containing formulation

Abstract: A method of treating hydrocarbons in a formation (200) involves providing heat from one or more heat sources (202) to a portion of the formation (200) and allowing heat to transfer to a selected section of the formation (200) by conduction. The heat causes pyrolysis of the hydrocarbons and the products are produced (206) from the formation (200). The pressure within the formation (200) may also be controlled.

Classifications:

International (IPC 8-9): C09K8/592 E21B36/04 E21B41/00 E21B43/24 E21B43/30 (Advanced/Invention);

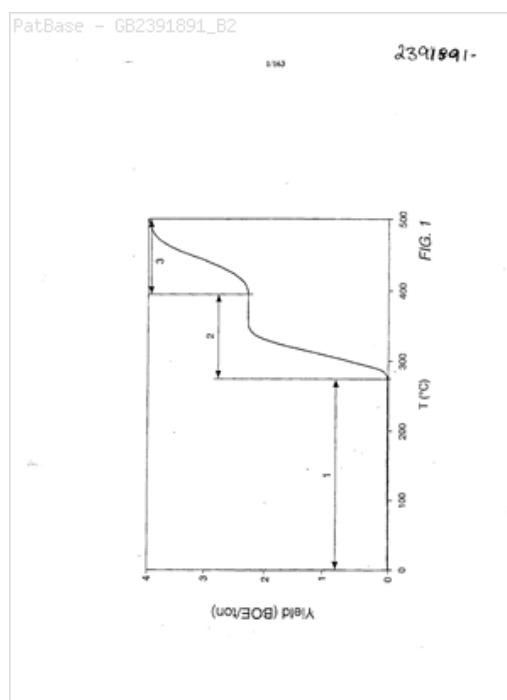
C09K8/58 E21B36/00 E21B41/00 E21B43/00 E21B43/16 (Core/Invention)

International (IPC 1-7): E21B43/24 E21B43/243

CPC: C09K8/592 E21B36/04 E21B41/0057 E21B43/243 E21B43/30

European: C09K8/592 E21B36/04 E21B41/00M2 E21B43/243 E21B43/30

PatBase - GB2391891_B2



Family:

Publication number	Publication date	Application number	Application date
GB200327045 A0	20031224	GB20030027045	20010424
GB200327060 A0	20031224	GB20030027060	20010424
GB2391890 A1	20040218	GB20030027045	20010424
GB2391890 B2	20040929	GB20030027045	20010424
GB2391891 A1	20040218	GB20030027060	20010424
GB2391891 B2	20040929	GB20030027060	20010424

Priority:

US20000199213P 20000424

US20000199214P 20000424

US20000199215P 20000424

GB20020024444 20010424

Probable Assignee: SHELL INT RESEARCH

Assignee(s): (std): SHELL INT RESEARCH

Assignee(s): SHELL INT RESEARCH MIJ BV ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V

Inventor(s): (std): ZHANG ETUAN ; WELLINGTON SCOTT LEE ; VINEGAR HAROLD J ; STEGEMEIER GEORGE LEO ; SHAHIN GORDON THOMAS ; RYAN ROBERT CHARLES ; KARANIKAS JOHN M ; FOWLER THOMAS DAVID ; DE ROUFFIGNAC ERIC PIERRE ; BERCHENKO ILYA EMIL

Inventor(s): ETUAN ZHANG ; ERIC PIERRE DE ROUFFIGNAC ; JOHN M KARANIKAS ; ILYA EMIL BERCHENKO ; HAROLD J VINEGAR ; GORDON THOMAS SHAHIN ; GEORGE LEO STEGEMEIER ; ROBERT CHARLES RYAN ; SCOTT LEE WELLINGTON ; THOMAS DAVID FOWLER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB2391890 A1	20040218	LSPB	+	published / reissued	
GB2391890 A1	20161228	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20160424
GB2391890 B2	20040929	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2391890 B2	20210424	PEXP		Calculated Patent Term Expiry	
GB2391891 A1	20040218	LSPB	+	published / reissued	
GB2391891 A1	20161228	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20160424

GB2391891 B2	20040929	LSGT	+	granted / extensions (spc, cpc, pte)
GB2391891 B2	20210424	PEXP		Calculated Patent Term Expiry

Title: VERTICAL GRILL **COOKING** DEVICE.

Abstract: **Cooking** device with vertical grill with heat sources developed and arranged vertically to make use, separately or at the same time, of all radiation, particularly that coming from the side walls, in order to **cook** the food on the fixed or moveable vertical grills or gridirons installed in front of the above mentioned walls, with all melted fat dripping into purposely arranged containers on the bottom, which may contain water, to eliminate smoke or fumes.

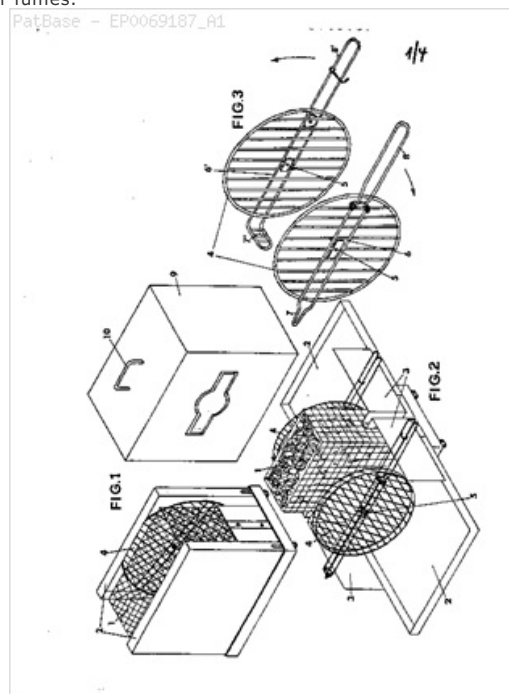
Classifications:

International (IPC 8-9): A47J37/04 A47J37/07 (Advanced/Invention);
A47J37/04 A47J37/07 (Core/Invention)

International (IPC 1-7): A47J37/04 A47J37/07 F24B

CPC: A47J37/043 A47J37/0718

European: A47J37/04C A47J37/07C



Family:

Publication number	Publication date	Application number	Application date
EP0069187 A1	19830112	EP19810830174	19810925
IT1142687 A	19861015	IT19810048857	19810708
IT8148857 A0	19810708	IT19810048857	19810708

Priority:

IT19810048857 19810708

Probable Assignee: ARRIGO TEODORO
Assignee(s): (std): ARRIGO TEODORO
Assignee(s): TEODORO ARRIGO
Inventor(s): (std): ARRIGO TEODORO ; TEODORO ARRIGO
Designated states: AT BE CH DE FR GB LI NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP0069187 A1	19830112	LSPB	+	published / reissued	
EP0069187 A1	19840321	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19831221
IT1142687 A	19861015	LSGT	+	granted / extensions (spc, cpc, pte)	
IT1142687 A	20010708	PEXP		Calculated Patent Term Expiry	

Title: ENHANCED EMISSION CONTROL FOR OUTDOOR WOOD-FIRED BOILERS

Abstract: An emission control apparatus which can be used on an outdoor wood-fired boiler. Ambient air, which has a much higher concentration of available oxygen in relation to exhaust gases, is caused to be heated before being passed through catalyst-coated media along with exhaust gases, thereby improving the performance of the catalytic reaction.

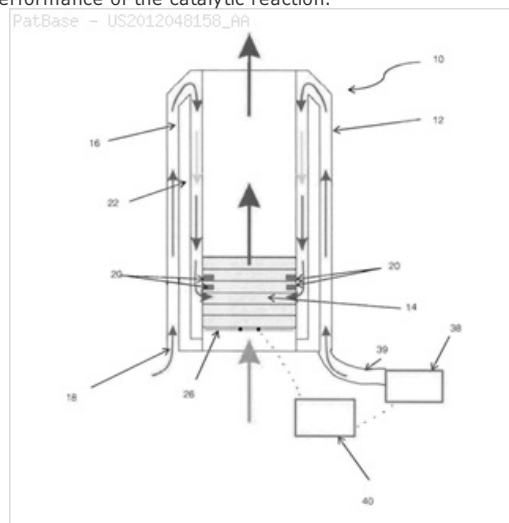
Classifications:

International (IPC 8-9): B01D53/34 B01D53/86 F23B60/00 F23B90/08 F23G7/07 F23J11/00 F23J15/02 F23L17/04 F23L9/04 F24B13/00 (Advanced/Invention)

CPC: F23B90/08 B01D53/864 B01D2257/502 B01D2257/70 B01D2258/0283 B01D2259/65 F23G7/07 F23L9/04

European: B01D53/86H F23B90/08 F23G7/07 F23L9/04 L01D257/502 L01D257/70 L01D258/02K L01D259/65

US: 1/1 110/203 422/168 422/168S



Family:

Publication number	Publication date	Application number	Application date
US2012048158 AA	20120301	US20110217215	20110824
US9080766 BB	20150714	US20110217215	20110824
WO12027512 A2	20120301	WO2011US49024	20110824
WO12027512 A3	20120614	WO2011US49024	20110824

Priority:

US20100376355P 20100824 US20110217215 20110824

Probable Assignee: CLEAR SKIES UNLIMITED INC

Assignee(s): (std): CLEAR SKIES UNLTD INC ; GRACE LANCE C ; GRACE LANCE CARL ; GRACE TYLER MAINORD

Assignee(s): CLEAR SKIES UNLIMITED INC

Inventor(s): (std): GRACE LANCE CARL ; GRACE TYLER MAINORD ; GRACE LANCE C

Agent(s): DEBORAH A; JUSTIN R; PEACOCK MYERS PC; PEACOCK DEBORAH 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 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 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 PE PG PH PL PT QA RO RS RU 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2012048158 AA	20120301	LSPB	+	published / reissued	
US2012048158 AA	20150624	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US9080766 BB	20150714	LSGT	+	granted / extensions (spc, cpc, pte)	
US9080766 BB	20111028	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CLEAR SKIES UNLIMITED, INC., NEW MEXICO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GRACE, LANCE CARL; GRACE, TYLER MAINORD; REEL/FRAME:027142/0824 EFFECTIVE DATE : 20111026
US9080766 BB	20150624	LSGT	PAT1	Patented Case	
US9080766 BB	20190304	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.);

					ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US9080766 BB	20190715	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : SURCHARGE FOR LATE PAYMENT, SMALL ENTITY (ORIGINAL EVENT CODE: M2554); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US9080766 BB	20190715	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US9080766 BB	20331208	PEXP		Calculated Patent Term Expiry (PTA 837 days)	
WO12027512 A2	20120301	LSPB	+	published / reissued	
WO12027512 A3	20130225	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO12027512 A3	20130918	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 11820623 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :

Title: SENSOR DEVICE

Abstract: A sensor device determines an amount of liquid contained or stored in an object to be tested. The sensor device contains at least one heating element and at least one humidity sensor. When operated, the sensor device defines at least one volume which can be sealed off by placing the device on the surface of the object to be tested. The heating element is configured to heat at least part of a surface of the object delimiting the volume, the humidity sensor measuring the humidity in the interior of the volume.

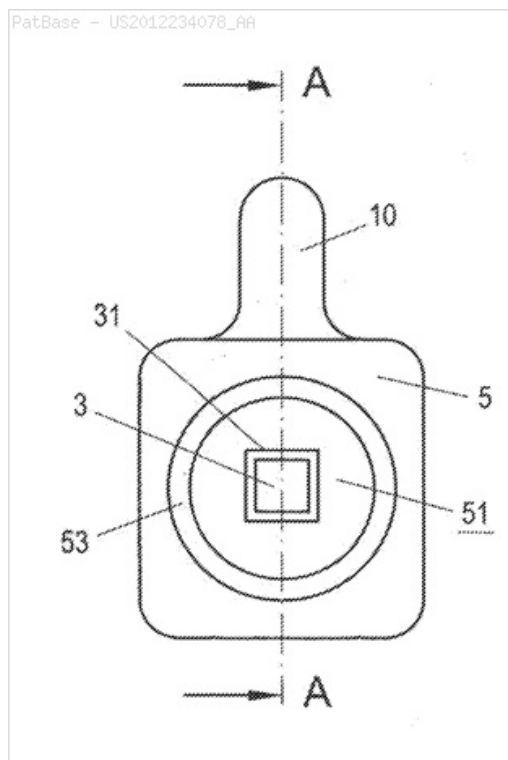
Classifications:

International (IPC 8-9): A61B5/00 B01D29/01 G01N19/10 G01N25/56
G01N27/12 G01N27/22 G01N33/02 G01N33/15 G01N33/38
G01N33/46 (Advanced/Invention)

CPC: G01N25/56 G01N33/03 G01N33/34 G01N33/38 G01N33/4833
A61B5/441 A61B2562/029 G01N27/223

European: A61B5/44B G01N25/56 G01N27/12B G01N27/22C
K61B562/02Q S01N33/03 S01N33/34 S01N33/38 S01N33/483C

US: 73/29.02 73/29.05



Family:

Publication number	Publication date	Application number	Application date
AT508940 A4	20110515	AT20090002055	20091230
AT508940 B1	20110515	AT20090002055	20091230
AT508976 A1	20110515	AT20090001723	20091030
AT508976 B1	20130615	AT20090001723	20091030
EP2494343 A2	20120905	EP20100787257	20101029
EP2494344 A1	20120905	EP20100795907	20101029
US2012234078 AA	20120920	US20100505134	20101029
US8869596 BB	20141028	US20100505134	20101029
WO11050381 A1	20110505	WO2010AT00411	20101029
WO11050382 A2	20110505	WO2010AT00412	20101029
WO11050382 A3	20110707	WO2010AT00412	20101029

Priority:

AT20090001723 20091030 AT20090002055 20091230 WO2010AT00412 20101029
WO2010AT00411 20101029

Probable Assignee: VASEMA GMBH

Assignee(s): (std): HAGL PETER ; HAGL PETER DIPL ING

Assignee(s): HAGL PETER DIPLING ; VASEMA DIAGNOSTICS AG ; VASEMA GMBH

Inventor(s): (std): HAGL PETER

Inventor(s): PETER HAGL

Agent(s): WILDHACK AND JELLINEK; LAURENCE A; RALPH E; WERNER H; WILDHACK AND JELLINEK PATENTANWAELTE
OG

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 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 PE PG PH PL PT RO RS RU 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT508940 A4	20110515	LSPB	+	published / reissued	
AT508940 A4	20160915	LSAS	PC	CHANGE OF THE OWNER	PARTYTYPE : OWNER OWNER : VASEMA DIAGNOSTICS AG, CH EFFECTIVE DATE : 20160726
AT508940 B1	20110515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT508940 B1	20291230	PEXP		Calculated Patent Term Expiry	
AT508976 A1	20110515	LSPB	+	published / reissued	
AT508976 B1	20130615	LSGT	+	granted / extensions (spc, cpc, pte)	
AT508976 B1	20160915	LSAS	PC	CHANGE OF THE OWNER	PARTYTYPE : OWNER OWNER : VASEMA DIAGNOSTICS AG, CH EFFECTIVE DATE : 20160726
AT508976 B1	20190615	LSLE	-MM01	LAPSE BECAUSE OF NOT PAYING ANNUAL FEES	EFFECTIVE DATE : 20181030
AT508976 B1	20291030	PEXP		Calculated Patent Term Expiry	
EP2494343 A2	20120905	LSPB	+	published / reissued	
EP2494343 A2	20120905	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20120507
EP2494343 A2	20150401	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20150225
EP2494343 A2	20160413	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : VASEMA DIAGNOSTICS AG
EP2494344 A1	20120905	LSPB	+	published / reissued	
EP2494344 A1	20120905	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20120522
EP2494344 A1	20160413	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : VASEMA DIAGNOSTICS AG
EP2494344 A1	20160615	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20160518
US2012234078 AA	20120920	LSPB	+	published / reissued	
US8869596 BB	20141028	LSGT	+	granted / extensions (spc, cpc, pte)	
US8869596 BB	20141008	LSGT	PAT1	Patented Case	
US8869596 BB	20160218	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VASEMA DIAGNOSTICS AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAGL, PETER; REEL/FRAME:037768/0501 EFFECTIVE DATE : 20160210
US8869596 BB	20170808	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VASEMA GMBH, AUSTRIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:VASEMA DIAGNOSTICS AG; REEL/FRAME:043230/0857 EFFECTIVE DATE : 20170728
US8869596 BB	20170809	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VASEMA GMBH, AUSTRIA OLDPARTY : ASSIGNMENT OF

						ASSIGNORS INTEREST; ASSIGNOR: VASEMA DIAGNOSTICS AG; REEL/FRAME: 043239/0369 EFFECTIVE DATE : 20170704
US8869596 BB	20180611	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)	
US8869596 BB	20181203	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY	
US8869596 BB	20181203	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US8869596 BB	20181203	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362	
US8869596 BB	20181225	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20181028	
US8869596 BB	20310607	PEXP		Calculated Patent Term Expiry (PTA 221 days)		
WO11050381 A1	20110505	LSPB	+	published / reissued		
WO11050381 A1	20120430	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE	
WO11050381 A1	20120522	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010795907 COUNTRY OF REF DOCUMENT : EP	
WO11050382 A2	20110505	LSPB	+	published / reissued		
WO11050382 A3	20120430	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE	
WO11050382 A3	20120507	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2010787257 COUNTRY OF REF DOCUMENT : EP	
WO11050382 A3	20120606	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 13505134 COUNTRY OF REF DOCUMENT : US	

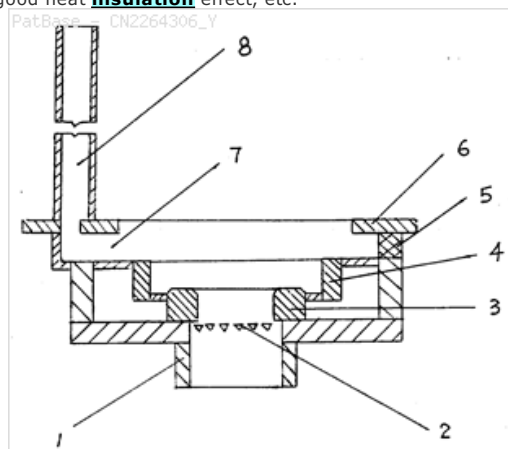
Title: **firewood** saving **cooking** range

Abstract: The utility model relates to a household kitchen combustion utensil, particularly a **firewood** saving **cooking** range. The utility model is composed of a base, a combustion chamber, a range plane and a chimney. The utility model is characterized in that the combustion chamber comprises a fire grate, a range chamber, a fire protection circle and a range body. The utility model has the advantages of high combustion efficiency, energy saving, good heat **insulation** effect, etc.

Classifications:

International (IPC 8-9): F24B1/20 (Advanced/Invention);
F24B1/00 (Core/Invention)

International (IPC 1-7): F24B1/20



Family:

Publication number	Publication date	Application number	Application date
 CN2264306 Y	19971008	CN19962013990U	19960627

Priority:

CN19962013990U 19960627

Probable Assignee: HUANG FA

Assignee(s): (std): HUANG FA

Inventor(s): (std): HUANG FA ; HUANG WEN ; WEN HUANG

Inventor(s): FA HUANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2264306 Y	19971008	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2264306 Y	19971008	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2264306 Y	19990901	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2264306 Y	20060627	PEXP		Calculated Patent Term Expiry	

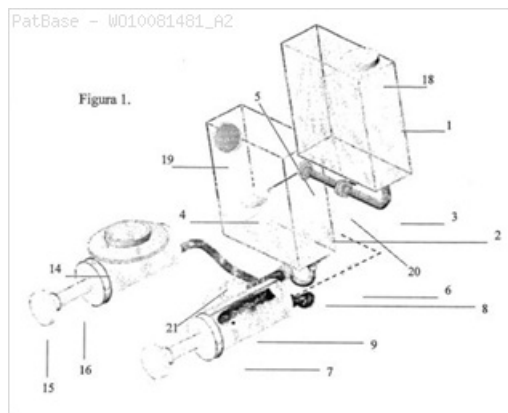
Title: NON-PRESSURISED ALCOHOL **COOKER** OR **STOVE**

Abstract: The present invention relates to a non-pressurised alcohol **cooker** or **stove** comprising a rotary-mantle burner and a continuous supply system and including: a main fuel tank; a tank for supplying the burner, said tanks being mutually connected by a connection pipe; a float system which actuates a float valve that regulates and maintains the consumption level; and at least one rotary-mantle burner consisting of a tubular main cylinder with a circular or oval opening. Said opening has a crown or projection positioned therearound, which protrudes from the tubular main cylinder and which is used as a closing element together with the rotary mantle. The rotary mantle consists of a structure formed by a half-cylinder which fits perfectly to the tubular main cylinder in the longitudinal portion thereof and which, upon rotation about the central axis, regulates the circular or oval opening upon contact with the crown or projection, thereby allowing the lighting process to be controlled, the flame intensity to be regulated and the **cooker** or **stove** to be turned off.

Classifications:

CPC: F24C5/12 F24C5/18

European: F24C5/12 F24C5/18



Family:

Publication number	Publication date	Application number	Application date
DOP2009000008 A	20090315	DO20090000008	20090115
WO10081481 A2	20100722	WO2010DO00002	20100112

Priority:

DO20090000008 20090115

Probable Assignee: VELA ALBERTI JOSE MANUEL

Assignee(s): (std): ALBERTI JOSE VELA ; SANCHEZ DIAZ GUSTAVO O ; VELA ALBERTI JOSE MANUEL ; SANCHEZ DIAZ GUSTAVO OMAR

Assignee(s): GUSTAVO O SANCHEZ DIAZ ; JOSE VELA ALBERTI

Inventor(s): (std): ALBERTI JOSE VELA ; SANCHEZ DIAZ GUSTAVO O ; SANCHEZ DIAZ GUSTAVO OMAR ; VELA ALBERTI JOSE MANUEL

Inventor(s): GUSTAVO O SANCHEZ DIAZ ; JOSE VELA ALBERTI

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 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 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 PE PG PH PL PT RO RS RU 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

Legal status (INPADOC)

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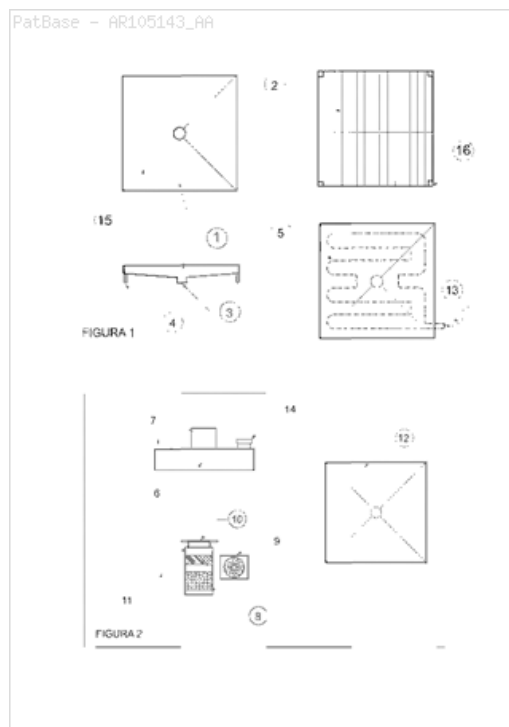
Patent	Date recorded	Event group	Code	Event	Details
DOP2009000008 A	20090315	LSPB	+	published / reissued	
WO10081481 A2	20100722	LSPB	+	published / reissued	
WO10081481 A2	20120620	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 10731077 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :

Title: RECIPIENTE CON SISTEMA DE COCCION PARA ALIMENTOS A LA PARRILLA COMO A LAS BRASAS CON SABOR A ASADO CRIOLLO UTILIZANDO GAS O ENERGIA ELECTRICA Container WITH FOOD **COOKING** ON THE GRILL AND THE COALS with roasted creole flavor USING GAS OR ELECTRICAL ENERGY (Machine translation)

Abstract: Source: AR105143A [ES] Recipiente provisto de un sistema de coccion de alimentos a la parrilla con el mismo sabor color y textura que el asado a las brasas tradicional criollo argentino, caracterizado porque comprende una plancha metalica trasmisora de calor (1) con un orificio central de desagote (3), una parrilla intermedia (2), una tapa (6) y una chimenea (7) con filtro (8) y un motor extractor de humo (9) con un recolector de grasa. **Machine translation:** Container provided with a system for **cooking** food on the grill with the same color and texture that the roast flavor to the coals traditional Argentine criollo, characterized in that it comprises a metal plate heat transmitter (1) with a central hole of drain (3), a grill (2), a cover (6) and a fireplace (7) with filter (8) and a motor (9) smoke extractor with a collector of fat.

Classifications:

International (IPC 8-9): A47J27/02 A47J27/12
A47J37/01 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
AR105143 AA	20170906	AR2016P101928	20160627

Priority:

AR2016P101928 20160627

Probable Assignee: MORILLA HORACIO ALBERTO

Assignee(s): (std): MORILLA HORACIO ALBERTO ; RUGIERO CARLOS ALBERTO

Inventor(s): (std): CARLOS ALBERTO RUGIERO ; HORACIO ALBERTO MORILLA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AR105143 AA	20170906	LSPB	+	published / reissued	

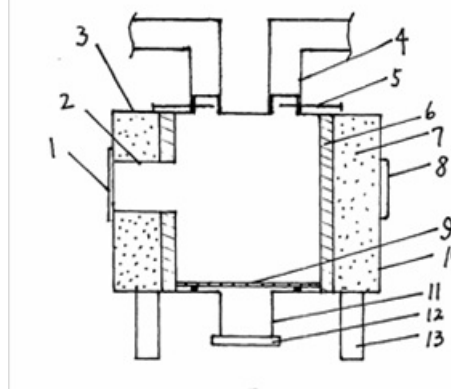
Title: Temperature-lifting oven

Abstract: The utility model relates to a heating-up **stove**, which mainly comprises a furnace wall, a combustion chamber, a furnace bridge, an air inlet pipe, a radiating pipe, and a heat-**insulating** layer, characterized in that the furnace wall is provided with a feeding pipe, the mouth of the feeding pipe is provided with a feeding door, the centre of the baseboard of the **stove** body is provided with an air inlet pipe with a furnace-banking cover, the top board of the **stove** body is equipped with an air gate, a fire regulator is arranged in the air gate, a metal radiating pipe is plug-in connected with the air gate, this radiating pipe is capable of encircling indoor or encircling in the shed with the mouth of the pipe exposed outdoor. The hearth of The utility model is big with good aeration and large air draught quantity, being capable of burning with various fuels such as powdered coal, wet **firewood**, sawdust, chaff, farm straw and the like, the furnace temperature is 300-1100 centigrade degrees and is adjustable, the indoor temperature is 18-120 centigrade degrees and is adjustable, the fire-banking time is 16-22 hours without putting out, the energy-saving is up to 30 percent, this heating-up **stove** has the advantages of feeding outdoor, smoke gas outward discharging, having no ash, no taste, no spark, and no harmful gas indoor, thereby having no damage to human body, and no pollution to indoor air, being suitable for the places of cultivating the plants and animals, the industrial and agricultural places which need heating-up, and heating places in the family or the school and the like.

Classifications:

International (IPC 8-9): F24B7/04 F24H3/00 (Advanced/Invention);
F24B7/00 F24H3/00 (Core/Invention)

PatBase - CN200961945_Y



Family:

Publication number	Publication date	Application number	Application date
 CN200961945 Y	20071017	CN200620052629U	20061023

Priority:

CN200620052629U 20061023

Probable Assignee:

ZHAO ENYU

Assignee(s): (std):

ZHAO ENYU

Inventor(s): (std):

ZHAO ENYU

Inventor(s):

ENYU ZHAO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN200961945 Y	20071017	LSGT	+	granted / extensions (spc, cpc, pte)	
CN200961945 Y	20071017	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN200961945 Y	20091216	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN200961945 Y	20161023	PEXP		Calculated Patent Term Expiry	

Title: MULTIPLE HEAT SOURCE OVEN

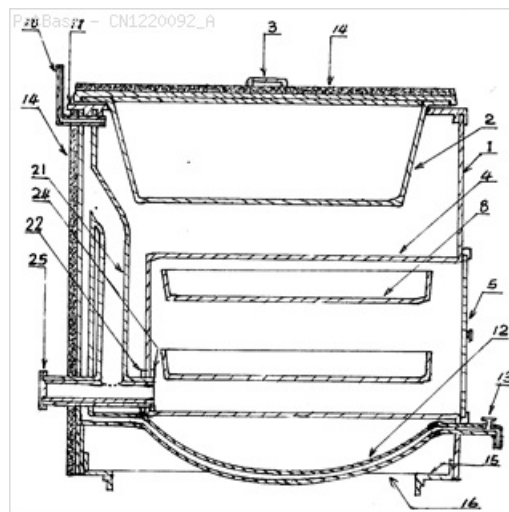
Abstract: The present invention discloses a multipurpose oven with several heating sources, and it is characterized by that its external form is made into the form of cube, and said invented multipurpose oven can be matched with gas **stove** equipment, electroheating furnace, coal-fired furnace and **firewood stove** for implementing several functions of steaming, roasting, **cooking**, baking and boiling water, and possesses the advantages of high working efficiency, simple structure, safety and convenient use, low cost, heat-**insulating**, saving energy, saving time, controllable temp., no burning or half-cooking food and extensive application range. Said invented multipurpose oven is composed of the components of external shell, heat-**insulating** layer, communicating mechanism, two roasting chambers, temp.-regulating plate, steam-regulation and control device, water-level indicator and overpressure alarm, etc..

Classifications:

International (IPC 8-9): A21B1/02 A47J37/06 (Advanced/Invention);
A21B1/00 A47J37/06 (Core/Invention)

International (IPC 1-7): A21B1/02 A47J37/06

CPC: Y02P60/83



Family:

Publication number	Publication date	Application number	Application date
■ CN1220092 A	19990623	CN19971023384	19971213

Priority:

CN19971023384 19971213

Probable Assignee:

LI SHENGBING

Assignee(s): (std):

LI SHENGBING

Inventor(s): (std):

LI SHENGBING

Inventor(s):

SHENGBING LI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN1220092 A	19990623	LSPB	+	published / reissued	
CN1220092 A	19990623	LSPB	+C06	PUBLICATION	
CN1220092 A	20010425	LSDW	-C01	DEEMED WITHDRAWAL OF PATENT APPLICATION (PATENT LAW 1993)	

Title: DISPOSICAO CONSTRUTIVA APLICADA A EQUIPAMENTO PARA FABRICACAO DE LEITE DE SOJA CONSTRUCTIVE DISPOSITION APPLIED TO EQUIPMENT FOR THE MANUFACTURING OF SOY MILK (Machine translation)

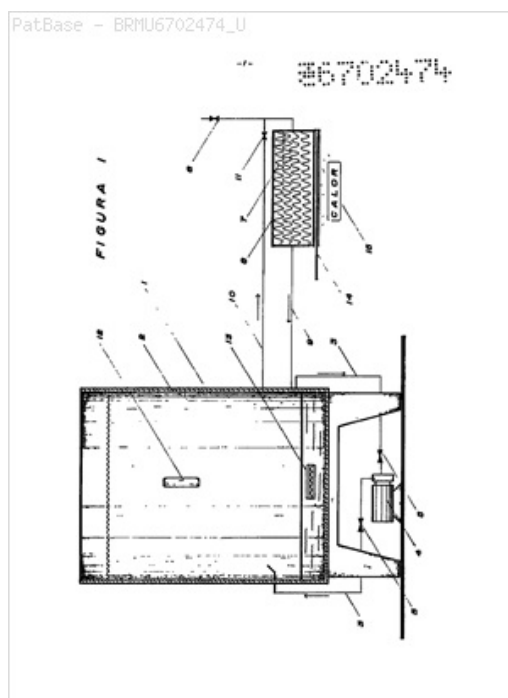
Abstract: Source: BRMU6702474U [PT] Mlss «.ss.: RESUM3 Patente de Modelo de Utilidade: "DISPOSICAO CONSTRUTIVA APLICADA and EQUIPAMENTO PARA FA- BRICACAO DE LEITE DE SOJA", preferentemente para alirnen 05 ~tacao animal, que utiliza fontes alternativas de ener- gia para aquecimento da agua de cozimento da soja, e que compreende em essencia um cilindro preferentemente em aco max, que possui isolamento"termico adequado, tu " bulacao interna e moto bomba para recirculacao da mis tu ra bem como sua homogenizacao, sendo o aquecimento obti, do por chapa termica externa ao cilindro, dita chapa - possuindo em seu interior uma serpentina para melhor a- proveitamento do calor. 10 **Machine translation:** Mlss «.ss.: RESUM3 patent of utility model: "CONSTRUCTIVE DISPOSITION APPLIED and EQUIPMENT for FA-BRICACAO SOY MILK", preferably to alirnen 05 ~ animal CT came, which uses alternative sources of energy for heating of water strategy baking soybeans, and which comprises in essence a cylinder preferably in aco max, which has thermal **insulation** "suitable, you" internal and bike pump bulacao recirculacao of mis you ra as well as your homogenizacao, being obtained at "warming by thermal plate outside the cylinder, dita-owning plate inside a streamer to better-heat proveitamento. 10

Classifications:

International (IPC 8-9): A23C11/00 (Advanced/Invention);
A23C11/00 (Core/Invention)

International (IPC 1-7): A23C11/00

PatBase - BRMU6702474_U



Family:

Publication number	Publication date	Application number	Application date
BRMU6702474 U	19880802	BR1987MU02474U	19871112

Priority:

BR1987MU02474U 19871112

Probable Assignee: AIRTON FERNANDES GURGEL

Assignee(s): (std): AIRTON FERNANDES GURGEL ; CYRO FULGENCIO DA CUNHA

Inventor(s): (std): CUNHA CYRO FULGENCIO DA ; GURGEL AIRTON FERNANDES

Inventor(s): AIRTON FERNANDES GURGEL ; CYRO FULGENCIO DA CUNHA

Legal status (INPADOC)

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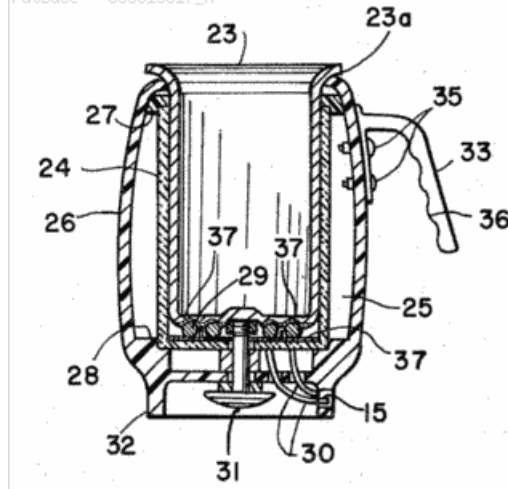
Patent	Date recorded	Event group	Code	Event	Details
BRMU6702474 U	19880802	LSPB	+	published / reissued	
BRMU6702474 U	19951031	LSLE	-MM	LAPSE DUE TO NON-PAYMENT OF FEES (ART. 50)	

Title: BATTERY OPERATED COFFEE MAKER

Abstract: A coffee brewer and more particularly small coffee brewer pots which make use of electrical current as heat source, includes a corrosion resistant and high heat conductivity inner metal chamber and abutting against outside peripheral surface of said inner chamber is a heat **insulating** material with the surface abutting against said outside peripheral surface of said inner chamber coated with a heat reflecting substance; a commercially available electrical heating element with low electrical resistance wherein the absolute value of the electrical resistance being not less than one unit ohm while capable of carrying high electrical current, is positioned securely and resting on the outside bottom surface of said inner chamber while at the same time, trapped in place by the inner bottom of said **insulating** material with spacers. An outermost chamber encloses whole assembly, providing another heat **insulating** air gap and to which a convenient handle is securely attached and an integral base stand. A female receptacle on line cord to receive the male prongs of the heating element is provided together with the corresponding and separate electrical wires to which alligator clips are mechanically and electrically connected.

Classifications:**International (IPC 8-9):** A47J31/00 A47J31/50 (Advanced/Invention)**International (IPC 1-7):** A47J31/44 F27D11/02**CPC:** A47J31/005 A47J31/50**European:** A47J31/00P A47J31/50**US:** 219/43.8 219/438

PatBase - US3813517_A

**Family:**

Publication number	Publication date	Application number	Application date
US3813517 A	19740528	US19730320947	19730104

Priority:

US19730320947 19730104

Probable Assignee:

MCGRUDER I

Assignee(s): (std):

MCGRUDER I

Assignee(s):

MCGRUDER I US

Inventor(s): (std):

MCGRUDER I

Inventor(s):

MCGRUDER I US

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US3813517 A	19740528	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: FIREPLACE INSERT

Abstract: A fireplace insert comprising a trapezoidal firebox (1) with slanted walls (24) and a smoke chamber (2) placed above the firebox (1), has a grate (13), a firebox mantel (4) providing the outside border of the firebox (1), and a noncombustible lining (5) providing inside covering of the firebox (1). Further it has a screen opening with a glass door (6) in its front part, an adjustable primary air intake (7) in the ash-dump (11) below the grate (13) and above the door (6), an adjustable secondary air intake (8) channelled to the upper part of the door (6). In the side walls (24) and/or the back wall (23) of the firebox (1), the fireplace insert has tertiary air intakes (18) disposed preferably in equipartition approximately halfway up the walls (23, 24), as well as air intakes for afterburning (19) disposed preferably in equipartition at approximately the upper third of the height of the walls (23, 24). The smoke chamber (2) comprises a tortuous smoke outlet (22) formed by the back wall (23), a flame deflector (20) and a parallel higher mounted smoke damper (21).

Classifications:

International (IPC 8-9): F23L1/00 F24B1/00 F24B1/02

F24B5/02 (Advanced/Invention);

F23L1/00 F24B1/00 F24B5/00 (Core/Invention)

International (IPC 1-7): F23B1/00 F23L1/00 F24B/102 F24B1/00

F24B1/02 F24B5/02

CPC: F24B5/026

European: F24B5/02B4

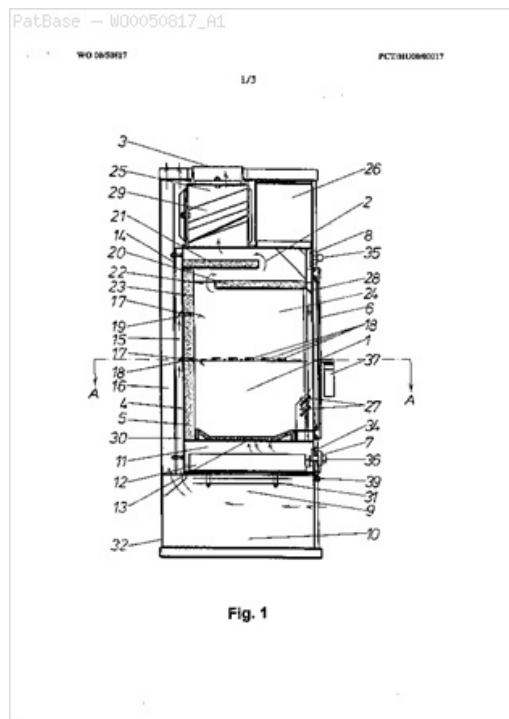


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
AU200031825 A1	20000914	AU20000031825	20000225
AU200031825 A5	20000914	AU20000031825D	20000225
HU1611 U	19990928	HU19990000042U	19990226
HU222130 B1	20030428	HU199900004512	19990226
HU9900042 U0	19990428	HU19990000042U	19990226
HU9904512 A0	20000228	HU199900004512	19990226
HU9904512 AA	20001128	HU199900004512	19990226
WO0050817 A1	20000831	WO2000HU00017	20000225

Priority:

HU19990000042U 19990226 HU199900004512 19990226 WO2000HU00017 20000225

Probable Assignee: FIREPLACE KFT

Assignee(s): (std): CSERJES FERENC ; FIREPLACE KFT ; JOSVAINE FUELOEP SAROLTA ; MAGAS ISTVAN ; SIMKO JOZSEF ; STURM JOZSEF

Inventor(s): (std): MAGAS ISTVAN ; SIMKO JOZSEF ; STRUM JOZSEF ; STURM JOZSEF ; SVAINE FULOP SAROLTA J ; CSERJES FERENC ; JOSVAINE FUELOEP SAROLTA

Inventor(s): JOSVAINE FULOP SAROLTA ; JOZSEF STURM ; JOZSEF SIMKO ; ISTVAN MAGAS ; FULOP SAROLTA J SVAINE ; FERENC CSERJES

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU200031825 A1	20000914	LSPB	+	published / reissued	
AU200031825 A5	20020117	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)	

(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE					
HU1611 U	19990928	LSPB	+	published / reissued	
HU222130 B1	20030428	LSGT	+	granted / extensions (spc, cpc, pte)	
HU222130 B1	20030428	LSGT	HFG4	PATENT GRANTED, DATE OF GRANTING	EFFECTIVE DATE : 20030217
HU222130 B1	20051128	LSLE	-HMM4	CANCELLATION OF FINAL PROT. DUE TO NON-PAYMENT OF FEE	
HU222130 B1	20190226	PEXP		Calculated Patent Term Expiry	
HU9904512 AA	20001128	LSPB	+	published / reissued	
WO0050817 A1	20000831	LSPB	+	published / reissued	
WO0050817 A1	20011220	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0050817 A1	20021002	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: OFENEINRICHTUNG

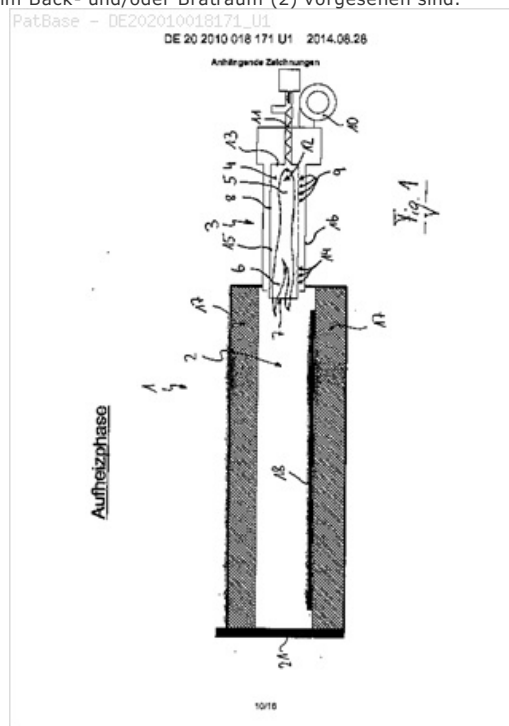
Abstract: Source: DE202010018171U1 [DE] Ofeneinrichtung (1) mit zumindest einem Back- und/oder Bratraum (2) und zumindest einer Brenneinheit (3) zur Erwärmung des Back- und/oder Bratraums (2), der ueber zumindest eine Eintrittsoffnung (7) von der zumindest einen Brenneinheit (3) waermebeaufschlagbar ist, dadurch gekennzeichnet, dass beidseits der Eintrittsoffnung (4) Druckausgleichsoffnungen (24a; 24b) im Back- und/oder Bratraum (2) vorgesehen sind.

Classifications:

International (IPC 8-9): A21B1/26 (Advanced/Invention)

CPC: A21B1/28 F23C7/02 F23C7/06 F23C2900/03005

European: A21B1/26



Family:

Publication number	Publication date	Application number	Application date
DE102010020430 A1	20111117	DE201010020430	20100512
DE202010018171 U1	20140828	DE201020018171U	20100512

Priority:

DE201010020430 20100512 DE201020018171U 20100512

Probable Assignee: PROPELLET GMBH

Assignee(s): (std): PROPELLET GMBH

Inventor(s): (std): LEHRA FLORIAN

Legal status (INPADOC)

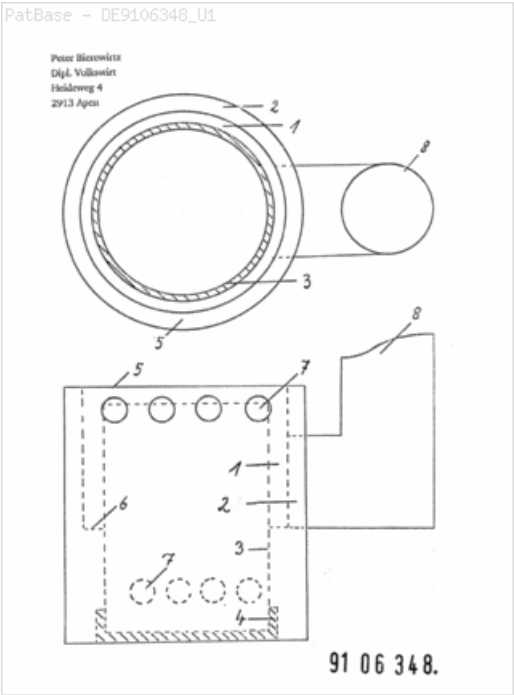
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Patent	Date recorded	Event group	Code	Event	Details
DE102010020430 A1	20111117	LSPB	+	published / reissued	
DE102010020430 A1	20110817	LSSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102010020430 A1	20150512	LSRV	-R002	REFUSAL DECISION IN EXAMINATION/REGISTRATION PROCEEDINGS	
DE102010020430 A1	20150617	LSRV	-R003	REFUSAL DECISION NOW FINAL	
DE202010018171 U1	20140828	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202010018171 U1	20140807	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	
DE202010018171 U1	20140828	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20140828
DE202010018171 U1	20140918	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20140807
DE202010018171 U1	20161201	LSLE	-R157	LAPSE OF IP RIGHT AFTER 6 YEARS	

Abstract: Source: DE9106348U1 [DE] (Claim 1) Transportabler Holzkocher 1 Schutzansprueche 1.1 Transportabler Holzkocher, dadurch gekennzeichnet, dass der Abgaskanal (1) von der Frischluftfuehrung (2) konzentrisch umschlossen ist. 1.2 Transportabler Holzkocher nach Anspruch 1.

Machine translation: (Claim 1) Portable wood **stove** a wood **stove** Schutzansprueche 1.1 Portable, characterized in that the exhaust duct (1) of the Frischluftfuehrung (2) enclosed concentric. 1.2 Transport Abler wood **stove** according to claim 1

Classifications:
International (ipc 8-9): A47J33/00 (Advanced/Invention);
A47J33/00 (Core/Invention)
International (ipc 1-7): A47J36/26
CPC: A47J33/00
European: A47J33/00



Family:

Publication number	Publication date	Application number	Application date
DE9106348 U1	19910912	DE19910006348U	19910523

Priority:

DE19910006348U 19910523

Probable Assignee: BIEREWIRTZ PETER DIPL VOLKSW

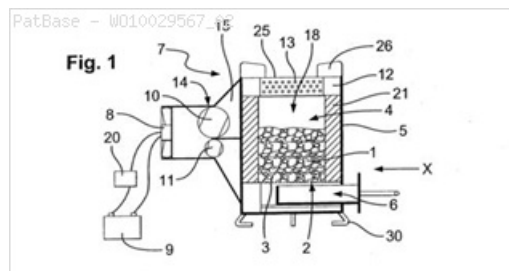
Assignee(s): BIEREWIRTZ PETER DIPL VOLKSW ; BIEREWIRTZ PETER DIPL VOLKSW 2913 APEN DE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE9106348 U1	19910912	LSGT	+	granted / extensions (spc, cpc, pte)	
DE9106348 U1	20010523	PEXP		Calculated Patent Term Expiry	

European: F23B60/02 F23L13/02 F23L13/08 F23L9/02 F24B5/02B4



Publication number	Publication date	Application number	Application date
AP201105595 A0	20110228	AP20110005595	20090720
AP3121 A	20150228	AP20110005595	20090720
EP2318766 A2	20110511	EP20090768244	20090720
IN01763CH2008 A	20100129	IN2008CH01763	20080723
WO10029567 A2	20100318	WO2009IN00409	20090720
WO10029567 A3	20100812	WO2009IN00409	20090720

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 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 PE 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 ZA ZM ZW

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Patent	Date recorded	Event group	Code	Event	Details
AP3121 A	20150228	LSGT	+	granted / extensions (spc, cpc, pte)	
AP3121 A	20290720	PEXP		Calculated Patent Term Expiry	
EP2318766 A2	20110511	LSPB	+	published / reissued	
EP2318766 A2	20110511	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110223
EP2318766 A2	20120229	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20120131
EP2318766 A2	20170712	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20170201
IN01763CH2008 A	20100129	LSPB	+	published / reissued	
WO10029567 A2	20100318	LSPB	+	published / reissued	
WO10029567 A3	20110125	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

WO10029567 A3	20110223	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2009768244 COUNTRY OF REF DOCUMENT : EP
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Title: Two-purpose **cooker** with diesel-oil and paraffin

Abstract: The utility model relates to a **stove** for **firewood** and coal which comprises a **stove** core, a **stove** bar and an **insulating** course arranged around the **stove** core, a **stove** door arranged beneath the **stove** core. A water storage with an inlet and an outlet is arranged upside the **stove** core and the **insulating** course. The hollow storage forms a hearth of the **stove**. The hearth wall opposite to the hearth door is provided with a smoke discharging channel which is communicated with an external smoke discharging pipe. The utility model is characterized in that the position arrangement of the hearth door is matched with the **stove** door, and is under the water storage. The utility model changes the position of the hearth door, i.e. changes the hearth door to the beneath of the water storage which is arranged at the side of the water storage formerly, therefore the water storage of prior art can be used as a component which can be fully applied to the **stove** of the utility model so as to simplify the production of the **stove** and lower the cost.

Classifications:

International (IPC 8-9): F24B9/04 (Advanced/Invention);
F24B9/00 (Core/Invention)

Family:

Publication number	Publication date	Application number	Application date
 CN200958779 Y	20071010	CN200620106999U	20060818

Priority:

CN200620106999U 20060818

Probable Assignee:	XU LICHENG
Assignee(s): (std):	XU LICHENG
Inventor(s): (std):	XU LICHENG
Inventor(s):	LICHENG XU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN200958779 Y	20071010	LSGT	+	granted / extensions (spc, cpc, pte)	
CN200958779 Y	20071010	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN200958779 Y	20091014	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN200958779 Y	20160818	PEXP		Calculated Patent Term Expiry	

Title: BIOMASS BURNING **STOVE** FOR CLEAN AND EFFICIENT DOMESTIC **COOKING**

Abstract: An innovative design adaptation of the basic Rocket **Stove** concept yielding a **Stove** with the ability to **cook** complete meals for small families using amazingly little biomass fuel. This innovative **stove** invention features {i} An optimally sized fire-tube (Fig.9: 53) that gives clean burning without preventing direct food-flame contact, {ii} Inclined Fuel-Feed Hopper giving direct line-of-sight Fire visibility from a sitting position resulting in optimal control of Fire by user (Fig. 14), {iii} A demountable, continuously resizable pot-skirt fitting any pot and greatly enhancing heat-transfer (Fig. 12), {iv} Convenient Underside Tinder Ignition giving fast startup (Fig. 15), {v} Compact double-walled construction that provides for dual-**insulation** and secondary air circulation (Fig. 19), {vi} Live, Ash disposal mechanism for flushing of the **stove** even as fire and **cooking** continue uninterrupted. (Fig. 16), {vii} Replaceable Combustion Chamber Walls giving prolonged extension of operational life (Fig.17) and {viii} Modular construction permitting compact packaging and quick assembly and reassembly (Fig. 22).

Classifications:

International (IPC 8-9): F24B1/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN04978MU2015 A	20170707	IN2015MU04978	20151231

Priority:

IN2015MU04978 20151231

Probable Assignee: HONAVAR MOHANEESH RAMESH

Assignee(s): HONAVAR MOHANEESH RAMESH

Inventor(s): DANDGE DATTA BHALCHANDRA ; DESAI NINAD MOHAN ; HONAVAR MOHANEESH RAMESH

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
IN04978MU2015 A	20170707	LSPB	+	published / reissued	

Title: POLTIN BRAENNARE BURNER (Machine translation)

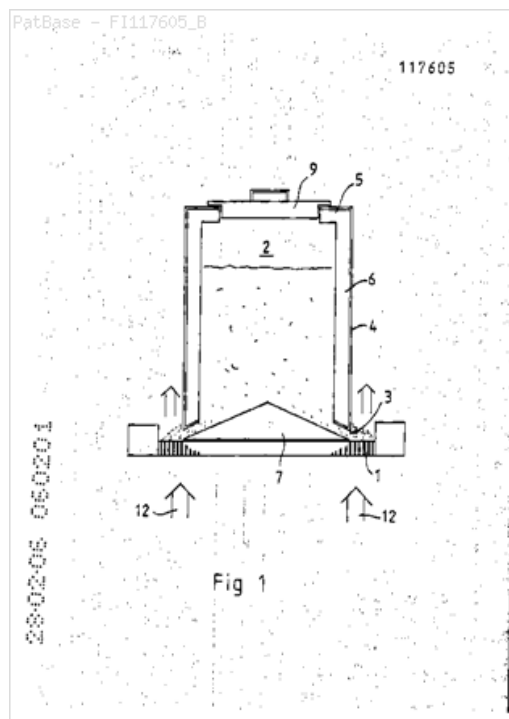
Abstract: Source: FI117605B [FI] (Claim 1) 1. Poltin rakeisen polttoaineen, kuten pel- lettien, polttamiseksi tulisijan arinalla (1) varuste- tussa tulipesaessae, johon polttimeen kuuluu polttoaine- tila (2), jonka alapaeaessae on virtausaukko (3), jonka lae- pi polttoaine painovoimaisesti valuu arinalla pol- tettavaksi, tunnettu siitae, ettae polttoainetila (2) on ainoastaan alaspaein virtausaukon (3) kautta avoin ja polttoainetilan vaipan eli sivuseinien (4) ja kannen (5) alueilta suljettu tila.

Machine translation: (Claim 1) 1 Burner granular fuel, such as pellets, to burn the fireplace grate (1) of equipment TU furnace in which the burner with the fuel space (2), whose lower end a flow outlet (3) through which the fuel gravitationally flows grate fired to, characterized in that that the fuel space (2) is the only downward flow orifice (3) to the open state and the fuel sheath or side walls (4) and the lid (5) in areas enclosed space.

Classifications:

International (IPC 8-9): F23H13/02 F24B1/193 (Advanced/Invention)

CPC: F23H13/02 F24B1/193



Family:

Publication number	Publication date	Application number	Application date
FI117605 B	20061215	FI20060000201	20060228
FI20060201 A0	20060228	FI20060000201	20060228

Priority:

FI20060000201 20060228

Probable Assignee: NUNNANLAHDEN UUNI OY

Assignee(s): (std): NUNNANLAHDEN UUNI OY

Inventor(s): (std): LEHIKONEN JUHANI ; MATIKAINEN SEPPO ; NIEMELAE MERTSI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FI117605 B	20061215	LSPB	+	published / reissued	
FI117605 B	20061215	LSGT	+FG	PATENT GRANTED	REF DOCUMENT NUMBER : 117605 COUNTRY OF REF DOCUMENT : FI
FI117605 B	20260228	PEXP		Calculated Patent Term Expiry	

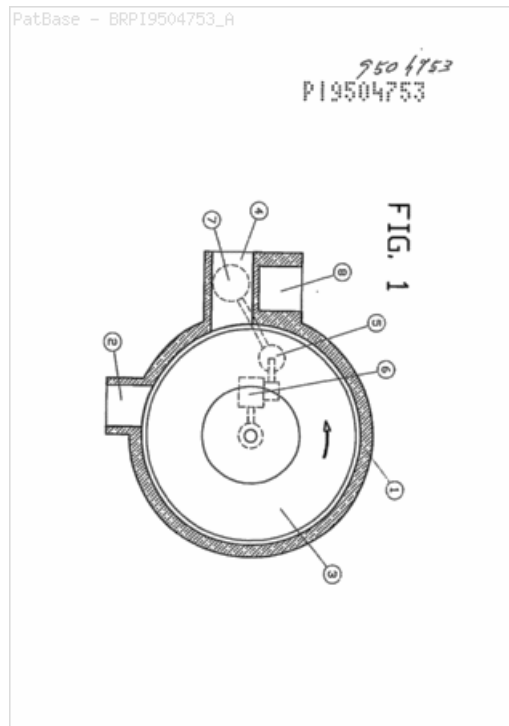
Title: Aperfeiçoamento em forno giratorio para pizzas massas alimenticias e demais assados em geral Progress in oven giratorio for pizzas baked in foil food masses and other General (Machine translation)

Abstract: Source: BRPI9504753A [PT] [Source: Claim 1] 1- "APERFEICOAMENTO EM FORNO GIRATORIO PARA PIZZAS, MAS EAS ALIMENTICIAS E DEMAIS.A3SAD0E EM GERAL"carscterixe- do por possuir mesa rctstiva(3) acionada por motor ele- 5 tricot 5) e sistema de reducao que sincroniza sua velo idade angular para aua seja a mesma do orato de contro le (7). **Machine translation:** [Source: Claim 1] 1-"PROGRESS in OVEN GIRATORIO for PIZZAS, BUT FOIL FOOD and other EAS. A3SAD0E in GENERAL "carscterixe-by rctstiva table (3) motor-driven he-5 5) tricot and reduction system that synchronizes your old fleece aua is the same angle of orato contro le (7).

Classifications:

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

International (IPC 1-7): A21B1/42

**Family:**

Publication number	Publication date	Application number	Application date
BRPI9504753 A	19970304	BR1995PI04753	19950929

Priority:

BR1995PI04753 19950929

Probable Assignee: ISRAEL FRANCISCO

Assignee(s): (std): ISRAEL FRANCISCO

Inventor(s): (std): ISRAEL FRANCISCO

Inventor(s): FRANCISCO ISRAEL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI9504753 A	19970304	LSPB	+	published / reissued	
BRPI9504753 A	20000321	LSRV	-FA10	DISMISSAL: DISMISSAL - ARTICLE 33 OF INDUSTRIAL PROPERTY LAW	

Title: Simple radiation heat device

Abstract: The utility model discloses a simplified radiation heat source which employs all kinds of burning heat sources (coal, bamboo, **firewood**, cow and dropping and horse manure, etc.) to be burnt and be transferred into a fine-property radiation heat source. The utility model provides the heat source for **insulation** and baking in all sorts of warm-house planting and aquaculture. In particular the utility model provides a large radiation heat source when a natural disaster is encountered and loss retrieving is needed. The cost of such kind of **stove** is approximately 20 times lower than **stoves** with a heat source of electric-heat radiation used in the current social life. Far-infrared radiation layers <2> are respectively sprayed on both the inner surface and the outer surface of the dove, and greatly increasing the temperature of the dove. Further, two circle wind channels are connected inside the wall of the dove, thereby the burning performance is improved, the burning is complete, the rate of smoke discharging and carrying are reduced and air pollution is decreased.

Classifications:

International (IPC 8-9): F24B1/181 (Advanced/Invention);
F24B1/00 (Core/Invention)

International (IPC 1-7): F24B1/181

Family:

Publication number	Publication date	Application number	Application date
 CN2491717 Y	20020515	CN20012013205U	20010103

Priority:

CN20012013205U 20010103

Probable Assignee: XIAO KEHE

Assignee(s): (std): XIAO KEHE

Inventor(s): (std): KEHE XIAO ; XIAO KEHE

Legal status (INPADOC)

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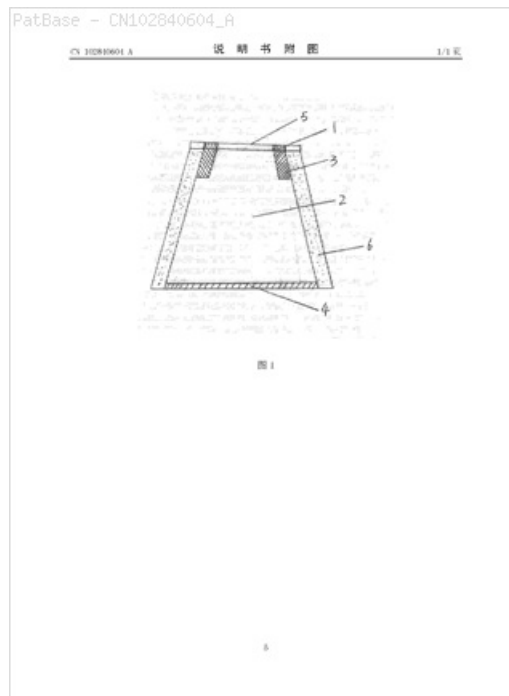
Patent	Date recorded	Event group	Code	Event	Details
CN2491717 Y	20020515	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2491717 Y	20020515	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2491717 Y	20080227	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2491717 Y	20110103	PEXP		Calculated Patent Term Expiry	

Title: STOVE CORE OF FIREWOOD- SAVING STOVE

Abstract: The invention discloses a stove core of a firewood-saving stove, which comprises a grate bridge (4), a combustion chamber (2), fire block rings (1) and separation plates (3), wherein the grate bridge (4) is placed horizontally, and the end close to a stove door is slightly higher; the combustion chamber (2) is cone-shaped with a large lower part and a small upper part; the fire block rings (1) are made of yellow mud, coal ash, hair and the like; the distances from the fire block rings (1) to the bottom of a pot are between 5 and 30 mm and are reduced in sequence while the distance from the fire block ring close to the chimney to the bottom of the pot is the lowest and the distance from the fire block ring on the opposite side to the bottom of the pot is the highest. The separation plates 3 cm in height (3) are cone-shaped and mounted at the middle part on the combustion chamber (2) of the stove core; and two rows of oxygen supply holes are formed in the separation plates (3). According to the invention, the stove core is adopted to enable the fuel to combust sufficiently, and has favorable insulating effect and high heat utilization rate, so as to save the fuel and reduce the exhaust emission; and the stove core of the firewood-saving stove is suitable for urban and rural families.

Classifications:

International (IPC 8-9): F24B1/191 F24B13/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN102840604 A	20121226	CN201210338741	20120914
CN202868752 U	20130410	CN201220466848U	20120914

Priority:

CN201210338741 20120914 CN201220466848U 20120914

Probable Assignee: QINADONG NANZHOU HUALONG BUSINESS TRADE CO LTD

Assignee(s): (std): QIANDONGNAN HUALONG COMMERCIAL TRADE CO LTD ; QINADONG NANZHOU HUALONG BUSINESS TRADE CO LTD

Assignee(s): QIANDONGNAN HUALONG COMMERCIAL TRADE CO ; QINADONG NANZHOU HUALONG BUSINESS TRADE CO

Inventor(s): (std): LUO KAIXIANG ; LI SHIHUI

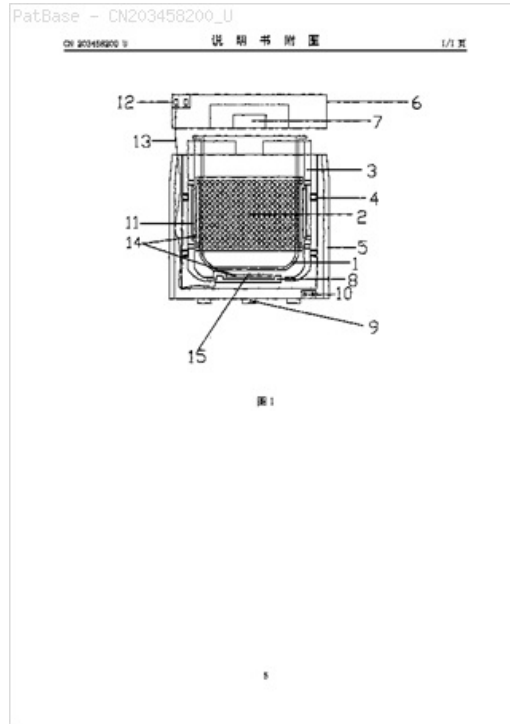
Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN102840604 A	20121226	LSPB	+	published / reissued	
CN102840604 A	20121226	LSPB	+C06	PUBLICATION	
CN102840604 A	20150520	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CN202868752 U	20130410	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202868752 U	20130410	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202868752 U	20161109	LSWD	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN202868752 U	20220914	PEXP		Calculated Patent Term Expiry	

Title: ELECTRONIC TEMPERATURE CONTROL SOUP STEWING DEVICE

Abstract: The utility model discloses an electronic temperature control soup stewing device and relates to a heating device for making soup in daily life. A middle bracket is arranged on the outer side of a liner; an annular heat source is arranged in the middle of the annular waist part of the middle bracket; the middle bracket and the annular heat source are uniformly provided with a plurality of meshes; a bottom heat source is arranged at the bottom of the liner; a heat source base is arranged below the bottom heat source; a base is arranged below the heat source base; a power inlet wire is arranged above one side of the base; a heat **insulation** layer is arranged on the outer side of the middle bracket; a peripheral protection layer is arranged on the outer side of the heat **insulation** layer; an outer cover is fixedly arranged above the liner; an air outlet is formed in the middle of the outer cover; a heat control device is mounted on one side of the outer cover and is connected with a wire end sensor through a lead wire. According to the electronic temperature control soup stewing device, an environment that **firewood** in a hearth is burnt out without open flame is simulated, foods are **cooked** by a process that the temperature is gradually reduced after the **firewood** in the hearth is burnt out without open flame, and due to the **cooking** mode, the foods are nutritive, the soup is thick, and meat is fine and smooth in mouth feel.

Classifications:**International (IPC 8-9):** A47J27/00 A47J36/24 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CN203458200 U	20140305	CN201320551293U	20130906

Priority:

CN201320551293U 20130906

Probable Assignee:

XU FANGSHENG

Assignee(s): (std):

XU FANGSHENG

Assignee(s):

XU CHANGSHENG

Inventor(s): (std):

XU FANGSHENG

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN203458200 U	20140305	LSGT	+	granted / extensions (spc, cpc, pte)	
CN203458200 U	20230906	PEXP		Calculated Patent Term Expiry	

Title: **Stove** installed in fireplace

Abstract: The burner chamber (2) in the **stove** (1) is accessible via a fire door (9) in the front side and is surrounded by four walls formed by a ceiling and baseplate (7). Fasteners (35) secure the burner chamber to at least one removable fitting, or alternatively these fittings contain a space for receiving the burner chamber. The fittings used are chosen from main load carrying elements, supplementary load carrying elements and removable convection plates forming one of the burner chamber walls, or a combination of these. The load carrying elements can be flat pieces of sheet metal or profiled metal articles.

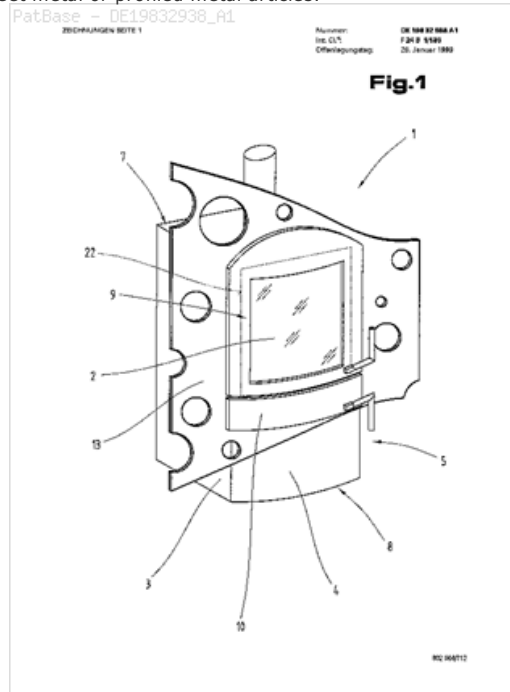
Classifications:

International (IPC 8-9): F24B1/02 (Advanced/Invention);
F24B1/00 (Core/Invention)

International (IPC 1-7): F24B1/185 F24B1/192

CPC: F24B1/022

European: F24B1/02B



Family:

Publication number	Publication date	Application number	Application date
DE19832938 A1	19990128	DE19981032938	19980722
ITSV980043 A1	20000124	IT1998SV00043	19980820

Priority:

AT19970001278 19970725

Probable Assignee:

RIENER KARL STEFAN

Assignee(s): (std):

RIENER KARL STEFAN

Assignee(s):

RIENER KARL STEFAN MICHELDORF AT

Inventor(s): (std):

RIENER KARL STEFAN

Inventor(s):

RIENER KARL STEFAN MICHELDORF AT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE19832938 A1	19990128	LSPB	+	published / reissued	
DE19832938 A1	20030515	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
ITSV980043 A1	20000124	LSPB	+	published / reissued	

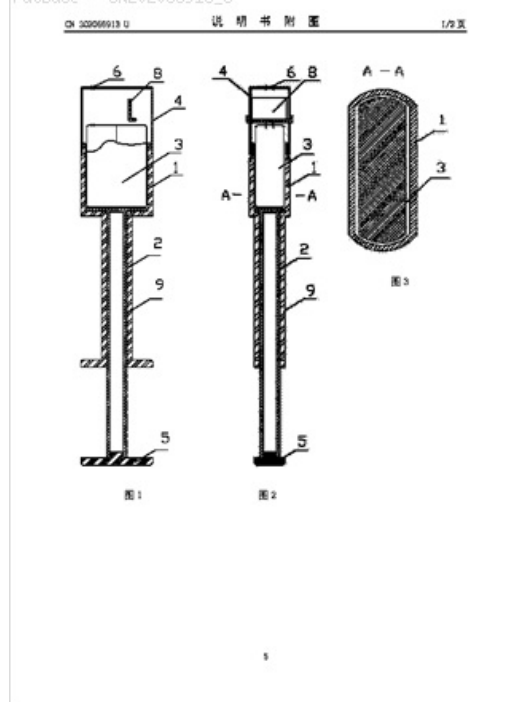
Title: Push-pull type lighter

Abstract: The utility model relates to a push-pull type lighter which is used in daily life. The push-pull type lighter consists of a key type lighter and a push-pull device, wherein the push-pull device comprises a push rod and a pull pipe; the pull pipe is sleeved outside the push rod and can freely slide opposite to the push rod; the lighter is arranged in front of the push rod; a cavity of the front part of the pull pipe is adapted to the shape of the lighter; a cap is arranged on the cavity; and a touch stop on the cap corresponds to a key of the lighter. When the push-pull type lighter is used, a handle behind the push rod is pressed by the palm of a hand, and a transverse edge on the rear part of the pull pipe is pulled by a finger to push and pull, so that the touch stop presses the key of the lighter to ignite; and after the finger is loosened, the push rod and the pull pipe are reset through the elasticity of the key part of the lighter. The lighter has a simple structure, is convenient to use, has the characteristics of thermal **insulation** and baking resistance, and can be charged or replaced. The lighter is suitable for ignition of gas **stoves**, **firewood** and firecrackers and occasions on which manual ignition is required, so that people are prevented from being injured.

Classifications:

International (IPC 8-9): F23Q2/34 (Advanced/Invention)

PatBase - CN202056913_U



Family:

Publication number	Publication date	Application number	Application date
■ CN202056913 U	20111130	CN201120156417U	20110517

Priority:

CN201120156417U 20110517

Probable Assignee:

FUTANG REN

Assignee(s): (std):

FUTANG REN

Assignee(s):

REN FUTANG

Inventor(s): (std):

FUTANG REN

Inventor(s):

REN FUTANG

Legal status (INPADOC)

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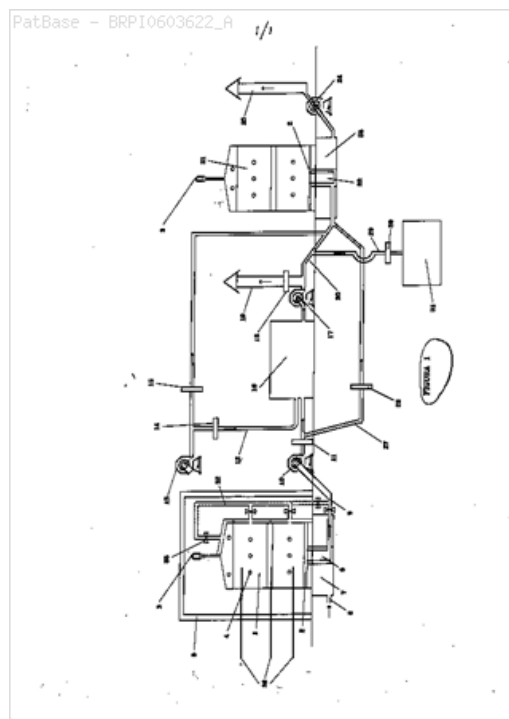
Patent	Date recorded	Event group	Code	Event	Details
CN202056913 U	20111130	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202056913 U	20111130	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202056913 U	20160706	LSWD	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN202056913 U	20210517	PEXP		Calculated Patent Term Expiry	

Title: PROCESSO DE PRODUCAO CONTINUA DE CARVAO VEGETAL EM FORNOS CONTAINERS COM SISTEMA DE EXAUSTAO POR MULTIPLOS PONTOS DE CAPTACAO

Abstract: Source: BRPI0603622B [PT] RESUMO PROCESSO DE PRODUCAO CONTINUA DE CARVAO VEGETAL EM FORNOS CONTAINERS COM SISTEMA DE EXAUSTAO POR MULTIPLOS PONTOS DE CAPTACAO 5 O presente resumo diz respeito a uma patente de invencao de processo de producao de carvao vegetal a partir da biomassa, lenha, galhada, capim etc., em fornos containers. Estes fornos podem estar ou nao acoplados a uma ou mais fornalhas. Quando acoplados, os gases combustiveis gerados na carbonizacao sao conduzidos por um sistema de exaustao ate a(s) fornalha(s), 10 onde ocorre a combustao destes com geracao de gases quentes. A succao dos gases gerados no interior do forno container podera ser realizada por qualquer uma das partes do mesmo, ou seja, pela base e/ou topo e/ou pela lateral. Os gases quentes gerados na(s) fornalha(s) podem ser reutilizados no proprio processo de carbonizacao, seja para pre-secagem secagem pre-carbonizacao e/ou 15 carbonizacao de outro ou outros fornos containers; ou ainda, podem ser utilizados em um segundo processo, como na geracao de vapor, secagem de outros produtos, etc. Quando nao acoplados as fornalhas, os gases combustiveis gerados na carbonizacao podem ser retornados ao proprio processo de carbonizacao para fornecimento de energia para a etapa endotermica do processo. O forno container 20 contara com a presenca de abertura, para a entrada de ar em seu interior, procedimento necessario para dar ignicao ou iniciar o processo de carbonizacao. Os fornos containers podem ser operados de forma semi-continua ou continua, pela intercalacao ou permutacao entre as sucessivas etapas do processo, sejam elas, carregamento, carbonizacao, resfriamento, descarregamento Este sistema 25 possibilita, a partir de um controle da entrada de ar no forno e da exaustao dos gases do mesmo, a recuperacao de praticamente toda a energia contida na biomassa original, a producao de um carvao de maior qualidade, e uma maior produtividade de carvao.

Classifications:

International (IPC 8-9): C10B47/00 (Advanced/Invention);
C10B47/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
BRPI0603622 A	20080401	BR2006PI03622	20060811
BRPI0603622 B1	20160426	BR2006PI03622	20060811

Priority:

BR2006PI03622 20060811

Probable Assignee: RIMA AGROPECUARIA E SERVICOS L

Assignee(s): (std): RIMA AGROPECUARIA E SERVICOS L ; RIMA AGROPECUARIA E SERVICOS LTDA

Inventor(s): (std): VICINTIN RICARDO ANTONIO

Inventor(s): RICARDO ANTONIO VICINTIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI0603622 A	20080401	LSPB	+	published / reissued	
BRPI0603622 A	20150331	LSSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	
BRPI0603622 A	20160315	LSGT	B09A	DECISION: INTENTION TO GRANT	

BRPI0603622 B1	20160426	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 20 (VINTE) ANOS CONTADOS A PARTIR DE 11/08/2006, OBSERVADAS AS CONDICOES LEGAIS.
BRPI0603622 B1	20260811	PEXP		Calculated Patent Term Expiry	

Title: Gasifying **stove** for saving **firewood**

Abstract: The utility model relates to a gasifying **stove** for saving **firewood**, which comprises a chimney 1, a range body 5, a **stove** body 7 and a fire grate 12. Vaporizing bores 16 are arranged above an inner **stove** liner 10, and an air cavity 17 is arranged between an outer **stove** liner 9 and the inner **stove** inner 10. The lower side of the outer **stove** liner 9 is provided with air vents 15, and the lower side of the **stove** body 7 is provided with an airflow regulating door 13. Thermal **insulating** materials 8 are arranged on a vaporizing air inlet baffle 11, and the bottom of the range body 5 is provided with a movable fire dividing ring 6. The top portion of the range body 5 is provided with two or more than two annular fire shielding covers. The gasifying **stove** for saving **firewood** is provided with a single range and a single layer, and has simple structure and low cost. Compared with congener **stove** for saving **firewood**, the cost is reduced by 25 percent to 30 percent, and the wind resistance and the energy-saving performances are good.

Classifications:

International (IPC 8-9): F24B1/183 (Advanced/Invention);
F24B1/00 (Core/Invention)

International (IPC 1-7): F24B1/183

Family:

Publication number	Publication date	Application number	Application date
 CN2176494 Y	19940907	CN19932042922U	19931019

Priority:

CN19932042922U 19931019

Probable Assignee: HU GUANGHAI

Assignee(s): (std): HU GUANGHAI

Inventor(s): (std): GUANGHAI HU ; HU GUANGHAI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2176494 Y	19940907	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2176494 Y	19940907	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2176494 Y	19961211	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2176494 Y	20031019	PEXP		Calculated Patent Term Expiry	

Title: MARSH GAS COLLECTOR

Abstract: The utility model relates to the field of marsh gas equipment, in particular to a marsh gas collector. The marsh gas collector consists of a marsh gas tank, a preheating pipe, a heating air sac, a temperature sensor, a temperature controller, a thermal **insulation** layer, a liquid indicator, a gas storage air sac and an outlet valve, wherein the thermal **insulation** layer is arranged on the inner wall of the marsh gas tank; the heating air sac and the liquid indicator are arranged at the bottom of the marsh gas tank; the temperature sensor and the preheating pipe are arranged in the heating air sac; the temperature sensor is connected with the external temperature controller; the gas storage air sac is connected with the top of the marsh gas tank through a flange; and the gas storage air sac is provided with the outlet valve which is connected with an external outlet pipe. The utility model has the advantages that: the marsh gas collector has a simple structure, small volume and a reasonable design, is safe and reliable, does not pollute the environment, fulfills the technical aims of used gas self-production in the processes such as household **cooking**, water boiling, illumination and the like and solves the problems that people is excessively dependent on resources such as petroleum, coal, **firewood** and the like.

Classifications:

International (IPC 8-9): C12M1/107 C12M1/38 (Advanced/Invention)

CPC: Y02E50/343 C12M21/04 C12M23/26 C12M23/36 C12M41/12 C12M41/44

PatBase - CN202017011_U

CN 202017011 U 说明书附图 1/1页

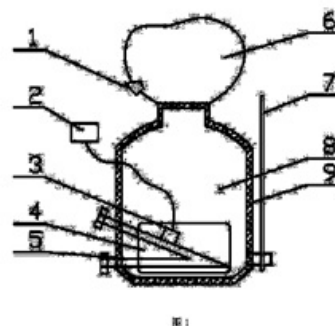


图 1

Family:

Publication number	Publication date	Application number	Application date
■ CN202017011 U	20111026	CN201120071642U	20110318

Priority:

CN201120071642U 20110318

Probable Assignee: DALIAN NEW ENERGY IND CO LTD

Assignee(s): (std): DALIAN NEW ENERGY IND CO LTD ; DALIAN NEW ENERGY INDUSTRY CO LTD

Assignee(s): DALIAN NEW ENERGY IND CO ; DALIAN NEW ENERGY INDUSTRY CO

Inventor(s): (std): HONGMIN MEN ; HONGWEI MEN

Inventor(s): MEN HONGMIN ; MEN HONGWEI

Legal status (INPADOC)

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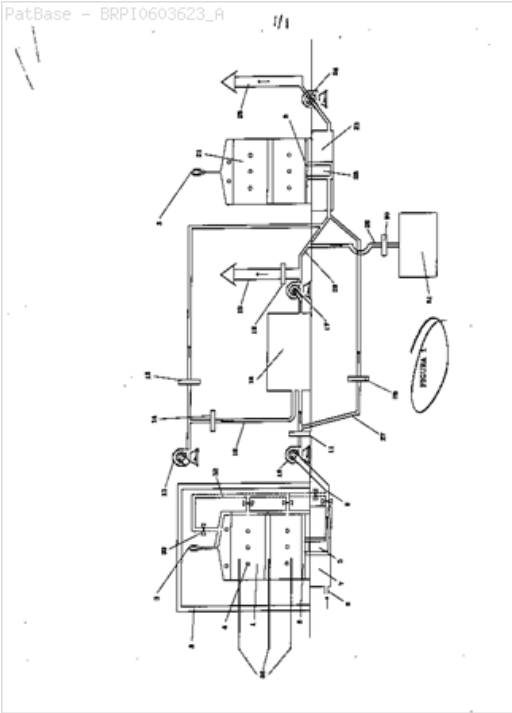
Patent	Date recorded	Event group	Code	Event	Details
CN202017011 U	20111026	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202017011 U	20111026	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202017011 U	20150506	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN202017011 U	20210318	PEXP		Calculated Patent Term Expiry	

Title: PROCESSO DE PRODUCAO CONTINUA DE CARVAO VEGETAL EM FORNOS CONTAINERS COM IGNICAO POR MULTIPLOS PONTOS NO FORNO

Abstract: Source: BRPI0603623B [PT] RESUMO PROCESSO DE PRODUCAO CONTINUA DE CARVAO VEGETAL EM FORNOS CONTAINERS COM IGNICAO POR MULTIPLOS PONTOS NO FORNO O presente resumo diz respeito a uma patente de invencao de processo de producao de carvao vegetal a partir da biomassa, lenha, galhada, capim etc., em fornos containers. Estes fornos podem estar ou nao acoplados a uma ou mais fornalhas. Quando acoplados, os gases combustiveis gerados na carbonizacao sao conduzidos por um sistema de exaustao ate a(s) fomalha(s), onde ocorre a combustao destes com geracao de gases quentes. Os gases quentes gerados na(s) fornalha(s) podem ser reutilizados no proprio processo de carbonizacao, seja para pre-secagem secagem pre-carbonizacao e/ou carbonizacao de outro ou outros fornos containers; ou ainda, podem ser utilizados em um segundo processo, como na geracao de vapor, secagem de outros produtos, etc. Quando nao acoplados as fornalhas, os gases combustiveis gerados na carbonizacao podem ser retomados ao proprio processo de carbonizacao para fornecimento de energia para a etapa endotermica do processo. O forno container contara com a presenca de aberturas, que localizados na base e lateral, topo e lateral, base e topo, ou base, topo e lateral do forno para a entrada de ar em seu interior, procedimento necessario para dar ignicao ou iniciar o processo de carbonizacao sem a utilizacao de camara de combustao externa. Os fornos containers podem ser operados de forma semi-continua ou continua, pela intercalacao ou permutacao entre as sucessivas etapas do processo, sejam elas, carregamento, carbonizacao, resfriamento, descarregamento. Este sistema possibilita, a partir de um controle da entrada de ar no forno e da exaustao dos gases do mesmo, a recuperacao de praticamente toda a energia contida na biomassa original, a producao de um carvao de maior qualidade, e uma maior produtividade de carvao.

Classifications:

International (IPC 8-9): C10B47/00 (Advanced/Invention);
C10B47/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
BRPI0603623 A	20080401	BR2006PI03623	20060811
BRPI0603623 B1	20160607	BR2006PI03623	20060811

Priority:

BR2006PI03623 20060811

Probable Assignee: RIMA AGROPECUARIA E SERVICOS L

Assignee(s): (std): RIMA AGROPECUARIA E SERVICOS L ; RIMA AGROPECUARIA E SERVICOS LTDA

Inventor(s): (std): VICINTIN RICARDO ANTONIO

Inventor(s): RICARDO ANTONIO VICINTIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI0603623 A	20080401	LSPB	+	published / reissued	
BRPI0603623 A	20150331	LSES	B07A	TECHNICAL EXAMINATION (OPINION): PUBLICATION OF TECHNICAL EXAMINATION (OPINION)	

BRPI0603623 A	20160419	LSGT	B09A	DECISION: INTENTION TO GRANT	
BRPI0603623 B1	20160607	LSGT	+B16A	PATENT OR CERTIFICATE OF ADDITION OF INVENTION GRANTED	TEXT : PRAZO DE VALIDADE: 20 (VINTE) ANOS CONTADOS A PARTIR DE 11/08/2006, OBSERVADAS AS CONDICOES LEGAIS.
BRPI0603623 B1	20180605	LSLE	-B21F	LAPSE ACC. ART. 78, ITEM IV - ON NON- PAYMENT OF THE ANNUAL FEES IN TIME	
BRPI0603623 B1	20181023	LSLE	-B24J	LAPSE BECAUSE OF NON- PAYMENT OF ANNUAL FEES (DEFINITIVELY: ART 78 IV LPI, RESOLUTION 113/2013 ART. 12)	TEXT : EM VIRTUDE DA EXTINCAO PUBLICADA NA RPI 2474 DE 05-06-2018 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDA A EXTINCAO DA PATENTE E SEUS CERTIFICADOS, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
BRPI0603623 B1	20260811	PEXP		Calculated Patent Term Expiry	

Title: Movable campfire box

Abstract: A campfire box forms an enclosure having an open top, a closed bottom floor, and inner and outer side walls extending around the periphery of the enclosure with the inner side walls being of **insulating** material. One or more layers of fire **insulating** material cover the floor. The **insulating** side panels and floor provide a cavity formed of fire **insulating** material for enclosing combustible material.

Classifications:

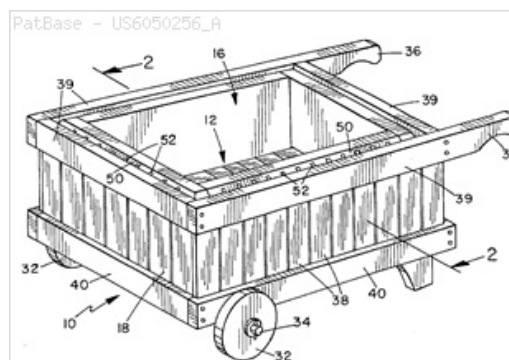
International (IPC 8-9): A47J37/07 F24B1/20 (Advanced/Invention);
A47J37/07 F24B1/00 (Core/Invention)

International (IPC 1-7): A47J37/07 F24B1/00 F24B1/191 F24B1/20

CPC: A47J37/0704 F24B1/202

European: A47J37/07B F24B1/20B

US: 126/25R 126/275R 126/276



Family:

Publication number	Publication date	Application number	Application date
AU199940796 A1	20000105	AU19990040796	19990514
AU199940796 A5	20000105	AU19990040796	19990514
US6050256 A	20000418	US19980098633	19980616
WO9966266 A1	19991223	WO1999US10727	19990514

Priority:

US19980098633 19980616 WO1999US10727 19990514

Probable Assignee: JOHN R FRENCH

Assignee(s): (std): FRENCH JOHN R

Assignee(s): JOHN R FRENCH

Inventor(s): (std): FRENCH JOHN R

Inventor(s): JOHN R FRENCH

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199940796 A1	20000105	LSPB	+	published / reissued	
AU199940796 A1	20010308	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
US6050256 A	20000418	LSGT	+	granted / extensions (spc, cpc, pte)	
US6050256 A	20040218	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6050256 A	20080418	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6050256 A	20080519	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6050256 A	20080519	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6050256 A	20080610	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20080418
US6050256 A	20180616	PEXP		Calculated Patent Term Expiry	
WO9966266 A1	19991223	LSPB	+	published / reissued	

WO9966266 A1	20010419	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9966266 A1	20020116	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: Tubular **firewood** and coal hearth heater

Abstract: The utility model discloses a tubular **firewood** and coal hearth heater, which belongs to the technical field of water heaters and mainly solves the problem that no water heater which can heat water by using afterheat of a **firewood stove** or a coal **stove** is available up to now. The tubular **firewood** and coal hearth heater is mainly characterized by comprising a cold water tower, a heat-**insulating** water tank, a heater and connecting pipelines, wherein the heater is arranged in the **firewood stove** or the coal **stove**; the connecting pipelines are connected between the cold water tower and the heat-**insulating** water tank and between the heat-**insulating** water tank and the heater; and the heater is one which is arranged along the inner wall of a hearth of the **firewood stove** or the coal **stove**, and/or on the bottom of the hearth and/or on an outer part of the boiler bottom and is formed by connecting tubes. The tubular **firewood** and coal hearth heater has the characteristic of heating water by using the afterheat of the **firewood stove** or the coal **stove**, and is mainly used for the tubular **firewood** and coal hearth heater of the **firewood stove** or the coal **stove**.

Classifications:

International (IPC 8-9): F24B1/183 F24B1/191 (Advanced/Invention)

PatBase - CN202203994_U

CN 202203994 U

说明书附图

1/3页

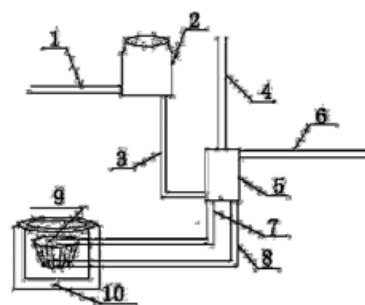


图 1

Family:

Publication number	Publication date	Application number	Application date
■ CN202203994 U	20120425	CN201120322477U	20110831

Priority:

CN201120322477U 20110831

Probable Assignee:

YONG HUANG

Assignee(s): (std):

YONG HUANG

Assignee(s):

HUANG YONG

Inventor(s): (std):

YONG HUANG

Inventor(s):

HUANG YONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202203994 U	20120425	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202203994 U	20120425	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202203994 U	20141022	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN202203994 U	20210831	PEXP		Calculated Patent Term Expiry	

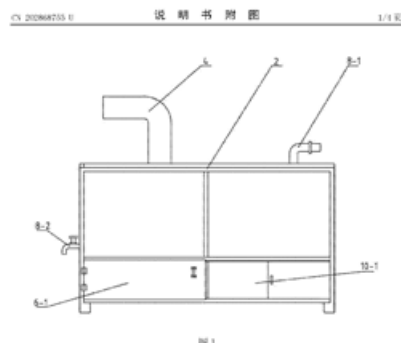
Title: MULTIPURPOSE ENERGY-SAVING THERMAL **INSULATION STOVE**

Abstract: The utility model discloses a multipurpose energy-saving thermal **insulation stove** and belongs to the technical field of **stove** manufacturing. The multipurpose energy-saving thermal **insulation stove** comprises a **stove** chamber, a **stove** body and a **stove** cover which is capable of sealing the **stove** chamber. A gas exhaust port which is communicated with the **stove** chamber is formed in the upper portion of the **stove** body and communicated with a chimney pipeline, wherein an outlet of the chimney pipeline is formed outdoors, a furnace bridge is arranged at the bottom of the **stove** chamber, an air intake and check cavity chamber and a **stove** door channel which is used for storing **firewood** are further arranged on the **stove** body, the air intake and check cavity chamber is communicated with the hearth through the furnace bridge, a double-used cavity chamber seal door which is arranged at the position of an air inlet of the air intake and check cavity chamber is connected with the **stove** body in a hinged mode, and a **stove** door seal door which is arranged at the position of an exit of the **stove** door channel is connected with the **stove** body in a hinged mode. The multipurpose energy-saving thermal **insulation stove** has the advantages of being high in heat utilization rate, free from causing smoke and gas in a room and dust on the **stove** surface, no need for adding the **firewood** often, convenient, sanitary, safe, environment-friendly, energy-saving and durable.

Classifications:

International (IPC 8-9): F24B1/20 F24B9/04 (Advanced/Invention)

PatBase - CN202868755_U



Family:

Publication number	Publication date	Application number	Application date
■ CN202868755 U	20130410	CN201220462420U	20120912

Priority:

CN201220462420U 20120912

Probable Assignee:

XIE SHIGUO

Assignee(s): (std):

XIE SHIGUO

Inventor(s): (std):

XIE SHIGUO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202868755 U	20130410	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202868755 U	20130410	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202868755 U	20161109	LSWD	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN202868755 U	20220912	PEXP		Calculated Patent Term Expiry	

Title: Heating apparatus

Abstract: An apparatus for the heating of ambient air within enclosed chambers in the walls of a fireplace, providing a more efficient means of utilizing the heat radiation produced by a fireplace and also to provide fresh warm air for heating purposes throughout a home is disclosed. Cold ambient temperature air is forced into the system by a two-speed fan through a cold air conduit into the outer chamber of the fireplace apparatus. The air is forced up the outer chamber to the top of the chimney where it crosses over to the inner heating chamber and the diagonal duct located within the flue space of the chimney. As the air progresses down the inner warm air passageway and the diagonal flue duct, it is heated by conduction through a metal wall in contact with the hot gases produced by the fire. The air then is forced down through these passageways into the rear and sides of the firebox. The air is fed thorough a manifold grating under the fire, and then collected in the hot air plenum located at the base of the firebox. The thoroughly warm air is then forced out an exit conduit into an existing furnace heat plenum for distribution throughout the house.

Classifications:

International (IPC 8-9): F24B1/188 (Advanced/Invention);

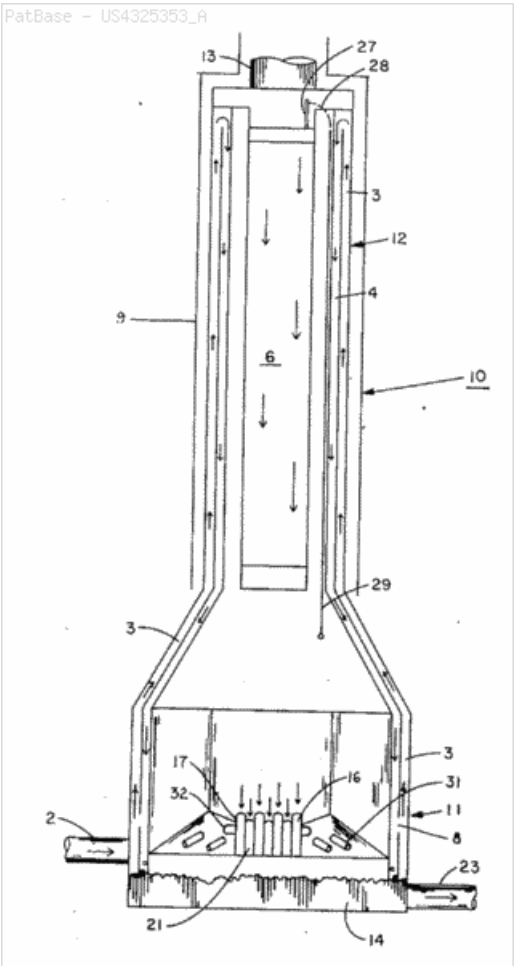
F24B1/00 (Core/Invention)

International (IPC 1-7): F24B7/00

CPC: F24B1/1885

European: F24B1/188F

US: 126/121 126/307R 126/502 126/517 126/522 237/55 454/43 454/47



Family:

Publication number	Publication date	Application number	Application date
US4325353 A	19820420	US19800146007	19800502

Priority:

US19800146007 19800502

Probable Assignee:

HUSA MARLIN V

Assignee(s): (std):

HUSA MARLIN V

Inventor(s): (std):

HUSA MARLIN V

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4325353 A	19820420	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: COCINA SOLAR TÉRMICA CON CONTROL HIDRÁULICO Y MARMITAS CON CIRCULACIÓN POR EFECTO CORIOLIS SOLAR **COOKING** TÉRMA and kettles with CIRCULACIÓN THERMAL CONTROL WITH HYDRA" N by Coriolis Effect (Machine translation)

Abstract: Source: CO20170012233A [ES] La presente invención trata de una cocina solar térmica con control hidráulico y marmitas con circulación por efecto Coriolis (1) que comprende un sistema de captación de energía solar (2), un sistema de almacenamiento del fluido de trabajo caliente (8), un sistema de control y transmisión de fluido de trabajo caliente (16) y un sistema de cocción de alimentos (22) que presenta marmitas (23), las cuales rotan sobre un eje horizontal para evacuar los alimentos a procesar. La cocina solar (1) funciona fundamentalmente con energía solar térmica para la cocción de alimentos y un sistema de energía solar fotovoltaica para el funcionamiento de un sistema de bombeo. La energía es captada y almacenada por un sistema de energía solar térmica con almacenamiento o caldera de gas (o ambos). La energía almacenada en el sistema solar es transmitida por circulación del fluido de trabajo hacia unas marmitas pasando por un sistema de bombeo y válvulas hidráulicas. Esta transmisión se hace por circulación del fluido en forma circular dentro de cada marmita, utilizando el efecto Coriolis. **Machine translation:** The present invention relates to a thermal solar **cooking** with hydraulic control and kettles with circulation by Coriolis effect (1) comprising a system of solar energy (2), a storage system of the hot working fluid (8), a control system and transmission of hot working fluid (16) and a **cooking** system (22) having kettles (23), which rotate about a horizontal axis to evacuate the food processing. (1) solar **cooking** works primarily with solar thermal energy for **cooking** food and a system of photovoltaic solar energy for the operation of a pumping system. The energy is captured and stored by a solar thermal power system with storage or gas boiler (or both). The energy stored in the solar system is transmitted by circulation of the working fluid toward a kettles through a pumping system and hydraulic valves. This transmission is done by flow of the fluid in circular shape within each pot, using the Coriolis effect.

Classifications:

International (IPC 8-9): F24B1/26 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
 CO20170012233 A1	20180131	CO20170012233	20171128

Priority:

CO20170012233 20171128

Probable Assignee: HELIOTERMICA S A S
Assignee(s): (std): HELIOTERMICA S A S
Assignee(s): HELIOTERMICA SAS
Inventor(s): (std): BECERRA BECERRA ARIEL REY
Inventor(s): ARIEL REY BECERRA BECERRA
Agent(s): MANUEL ANTONIO GUERRERO GAITAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CO20170012233 A1	20180131	LSPB	+	published / reissued	

Title: INSTALACAO PARA CARBONIZACAO DE MADEIRA OU BIOMASSA PELO PROCESSO SEQUENCIAL, COM UTILIZACAO DE FORNOS MOVEIS, TIPO VAGAO INSTALLATION FOR CARBONIZACAO OF WOOD OR BIOMASS BY SEQUENTIAL PROCESS, WITH USE OF FURNITURE, WAGON TYPE OVENS (Machine translation)

Abstract: Source: BR8305147A [PT] | eve «ss» «ve itki | («| • • ; • eii a it I ss |** -1- RESUIITO Patente de Invencao: "INSTALACAO PAHA CARBONIZACAO DE MADEIRA OU BIOMASSA, PELO PROCESSO SEQUENCIAL, COM UTILIZACAO DE FORNOS MOVEIS, TIPO VAGAO" na qual os 5 fornos tipo vagao sao posicionados para processarem a carbonizacao sequencial, sobre um segmento reto de li-nha de trilhos, dentro de um galpao, onde tambem se lq calizam os equipamentos auxiliares, como trocadores de calor, motores, sopredores, recuperadores, etc. Os for 10 nos sao levados para a posicao de carbonizacao e para abastecimento, com o auxilio de carros transferidores, que se deslocam sobre trilhos, em valas rasas. O depo- sito de lenha e adaptado com varios segmentos retos de linhas de trilhos, sendo a lenha empilhada de um lado 15 e do outro dos mesmos. Leva-se entao o forno a lenha, para reabastecimento, e nao a lenha ao forno, como usu almente se faz. Um motor a gas que funciona com os ga- ses nao condensaveis, sub-produtos da carbonizacao, e tambem com gas de um gasogenio existente, fornece ener 20 gia para o funcionamento das maquinas e equipamentos. Mlss «1;••• • • ss | • • m • «re. • • • #•• -2- Os gases quentes nao oxigenados para serem injetados nos fornos, sao os gases de escape do motor a gas da instalacao e os gases (produtos da combustao) obtidos numa camara de combustao onde se queimam finos de car- 5 vao vegetal, cascas de madeira, parte dos gases nao condensaveis e do gas do gasogenio. Recupera-se parte dos calores sensiveis e latentes dos volateis emanados dos fornos passando-os por trocadores de calor que a- quecem o ar atmosferico que e injetado nos fornos que 10 processam as primeiras fases da carbonizacao. Os sub- produtos liquidos condensaveis de valor comercial sao recuperados em aparelhos onde se utiliza como fluid o refrigerante o licor pirolenhoso obtido. A instalacao permite que se processe qualquer das fases da carboni- 15 zacao sob alta ou baixa pressao. **Machine translation:** | eve «ss • «ve itki | («| • • ; • eii it I ss... ss ss-1-RESUIITO Invention patent: "PAHA CARBONIZACAO INSTALLATION of WOOD or biomass, by SEQUENTIAL PROCESS, with USE of FURNITURE, WAGON TYPE OVENS" in which the wagon type 5 ovens are placed to prosecute the sequential carbonizacao, about a straight segment of li-nha of track, inside a galpao, where also lq calizam the auxiliary equipment such as heat exchangers, motors, sopredores, **stoves**, etc. The 10 are brought to us is the position of carbonizacao and to supply, with the help of car transporters, moving on Rails, in shallow trenches. The depo-sito **firewood** and adapted with various straight segments of rail lines, and **firewood** stacked on one side and 15 on the other. It takes so the wood-burning oven, for refueling, and not the wood oven, as the prospective user to do this. A gas engine that works with the ga-ses condensaveis, not by-products of carbonizacao, and also with a gasogenio gas, provides energy for the functioning of the gia 20 machinery and equipment Mlss «1;••• • • ss | • • m • «re. • • • • -2-the hot gases not bleached to be injected in the furnaces, are the exhaust gas of engine installation and gas (7 products) obtained a 7 Chamber where they burn fine car-5 vegetable wood shells go, part of the gases and gas condensaveis not gasogenio. Recovers part of the sensitive and latent heats of volatile substances from the furnaces of passing them by heat exchangers-air quecem atmosferico I and injected in the ovens that 10 render the early stages of carbonizacao. The sub-condensaveis liquids products of commercial value are retrieved in devices where used as fluid refrigerant pyroligneous liquor obtained. The installation allows to process any of the stages of the carboni-15 zacao under high or low pressure.

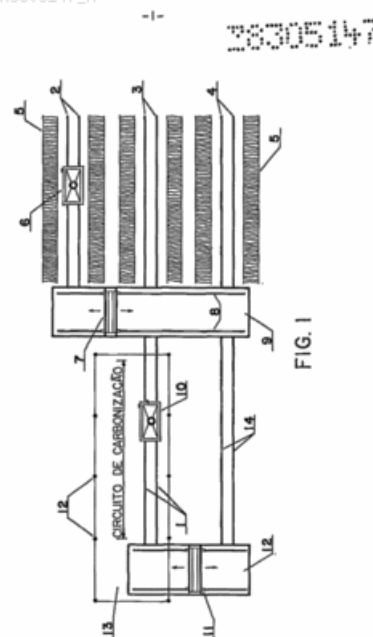
Classifications:

International (IPC 8-9): C10B35/00 (Advanced/Invention);

C10B35/00 (Core/Invention)

International (IPC 1-7): C10B35/00

PatBase - BR8305147_A



Family:

Publication number	Publication date	Application number	Application date
BR8305147 A	19850416	BR19830005147	19830908

Priority:

BR19830005147 19830908

Probable Assignee: CARBOTEL CARBONIZACAO TECNICA

Assignee(s): (std): CARBOTEL CARBONIZACAO TECNICA

Assignee(s): CARBOTEL CARBONIZACAO TECNICA LTDA

Inventor(s): (std): GLAUCO DE PAULA MACHADO ; MACHADO GLAUCO DE PAULA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BR8305147 A	19850416	LSPB	+	published / reissued	

Title: AUFSTELLBARER HOLZOFEN

Abstract: Source: DE20001555U1 [DE] (Claim1) Holzofen aus einer Anzahl ineinandersteilbarer Baumodule (1-4, 17,20-22,27, 33), dadurch gekennzeichnet, dass die Brennkammer (17,33) eineGrundflaeche aufweist, die in jeder Ausdehnung weniger als 33cm misst und der Ofenrost (33) wenigstens in einer Richtung geneigt ist.

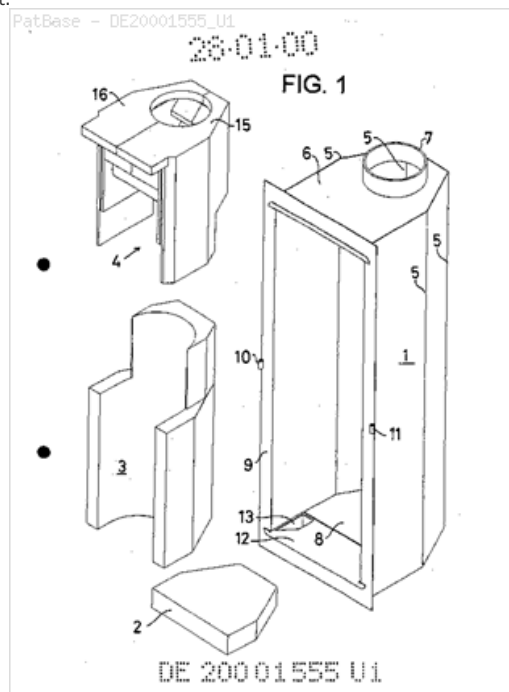
Classifications:

International (IPC 8-9): F24B1/02 F24B1/195 (Advanced/Invention);
F24B1/00 (Core/Invention)

International (IPC 1-7): F24B1/02 F24B1/181 F24B1/193 F24B1/195
F24B13/02

CPC: F24B1/02 F24B1/195

European: F24B1/02 F24B1/195



Family:

Publication number	Publication date	Application number	Application date
CH692430 A	20020614	CH19990000187	19990201
DE20001555 U1	20000518	DE20002001555U	20000128

Priority:

CH19990000187 19990201

Probable Assignee:

GAAN GMBH

Assignee(s): (std):

GAAN GMBH ; GAAN GMBH ZUERICH

Inventor(s): (std):

VETSCH GABRIELA ; RIEMENS ANDRE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CH692430 A	20020614	LSGT	+	granted / extensions (spc, cpc, pte)	
CH692430 A	20141031	LSAS	PUE	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GABRIELA VETSCH, CH OLDPARTY : FORMER OWNER : GAAN GMBH, CH
CH692430 A	20190215	LSLE	-PL	PATENT CEASED	
CH692430 A	20190201	PEXP		Calculated Patent Term Expiry	
DE20001555 U1	20000518	LSGT	+	granted / extensions (spc, cpc, pte)	
DE20001555 U1	20000518	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20000518
DE20001555 U1	20030410	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20030203
DE20001555 U1	20060420	LSGT	+R151	TERM OF PROTECTION EXTENDED TO 8 YEARS	EFFECTIVE DATE : 20060210
DE20001555 U1	20080430	LSGT	+R152	TERM OF PROTECTION EXTENDED TO 10 YEARS	EFFECTIVE DATE : 20080221

DE20001555 U1	20100201	LSLE	-R071	EXPIRY OF RIGHT
DE20001555 U1	20100128	PEXP		Calculated Patent Term Expiry

Title: THROUGH THE WALL SOLAR **COOKER**

Abstract: A solar oven or **cooker** for permanent installation as a kitchen appliance with provision made for collection of solar radiation throughout the daylight hours. Reflective panels are provided for coping with changes in the position of the sun, and with the different requirements of various **cooking** operations which reflective panels may be fixedly arranged or adjustably positioned by the operator.

Classifications:

International (IPC 8-9): F24J2/02 F24J2/52 (Advanced/Invention);
F24J2/00 F24J2/02 (Core/Invention)

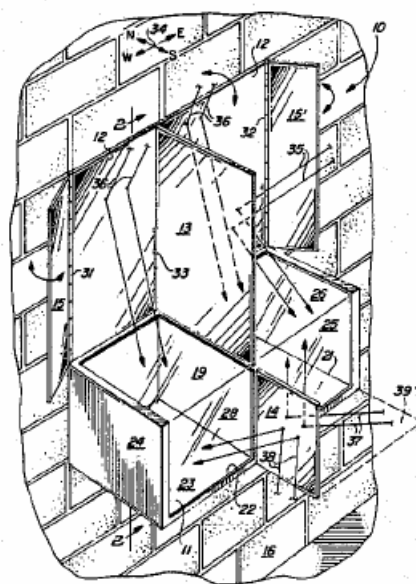
International (IPC 1-7): F24J2/02

CPC: Y02B40/18 Y02B10/20 F24S20/30 F24S30/20 Y02E10/40

European: F24J2/02 F24J2/52B Y02B10/20 Y02E10/47

US: 126/424 126/439 126/451 126/606 126/681

PatBase - US4655196_A



Family:

Publication number	Publication date	Application number	Application date
US4655196 A	19870407	US19860865764	19860522

Priority:

US19860865764 19860522

Probable Assignee:

KERR BARBARA P

Assignee(s): (std):

KERR BARBARA P

Inventor(s): (std):

KERR BARBARA P

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4655196 A	19870407	LSGT	+	granted / extensions (spc, cpc, pte)	
US4655196 A	19870205	LSGT	PAT1	Patented Case	
US4655196 A	19900618	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4655196 A	19950409	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4655196 A	19950620	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19950412
US4655196 A	20180130	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4655196 A	20180130	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US4655196 A	20060522	PEXP		Calculated Patent Term Expiry	

Title: FOOD **COOKING** DEVICE WITH HEAT SOURCE ABOVE THE FOOD

Abstract: The device has a frame associated with a food support for food, and a support that is detachably associated with the frame in a position above the food support at a chosen distance. The support is provided with electric resistors (26) for transmitting and/or propagating heat toward the underlying food support. The two supports are slidingly connected and extracted with respect to the frame.

Classifications:

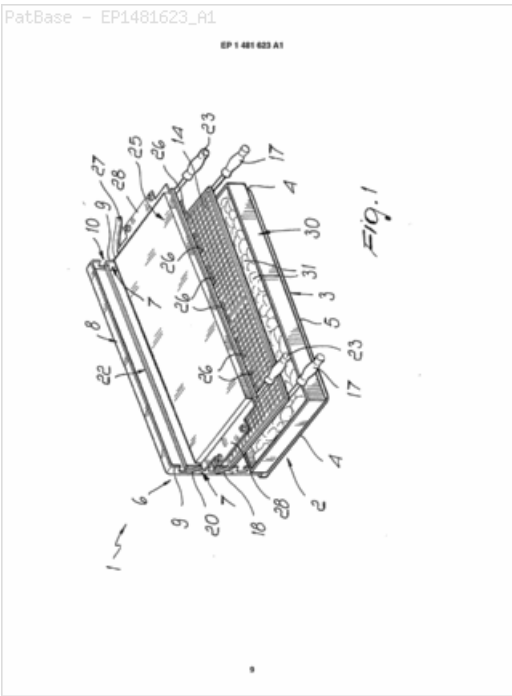
International (IPC 8-9): A47J37/00 A47J37/06
A47J37/07 (Advanced/Invention);

A47J37/06 A47J37/07 (Core/Invention)

International (IPC 1-7): A47J37/07 F24C7/08

CPC: A47J37/067 A47J37/0709

European: A47J37/06D A47J37/07B2



Family:

Publication number	Publication date	Application number	Application date
EP1481623 A1	20041201	EP20040012237	20040524
ITTV20030084 A1	20041130	IT2003TV00084	20030529
ITTV20030147 A1	20050429	IT2003TV00147	20031028

Priority:

IT2003TV00084 20030529 IT2003TV00147 20031028

Probable Assignee: MYTYM S R L

Assignee(s): (std): MYTYM S R L

Assignee(s): MYTYM SRL

Inventor(s): (std): CAVALLIN CAMILLO

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP1481623 A1	20041201	LSPB	+	published / reissued	
EP1481623 A1	20050803	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20050601
EP1481623 A1	20050824	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF

DOCUMENT : EE
 COUNTRY OF REF
 DOCUMENT : ES
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 COUNTRY OF REF
 DOCUMENT : SE
 COUNTRY OF REF
 DOCUMENT : SI
 COUNTRY OF REF
 DOCUMENT : SK
 COUNTRY OF REF
 DOCUMENT : TR

EP1481623 A1	20080430	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20080401
EP1481623 A1	20090408	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20081014
ITTV20030084 A1	20041130	LSPB	+	published / reissued	
ITTV20030147 A1	20050429	LSPB	+	published / reissued	

Title: SCHORNSTEIN FUER EIN HEIZGERAET CHIMNEY FOR A HEATER (Machine translation)

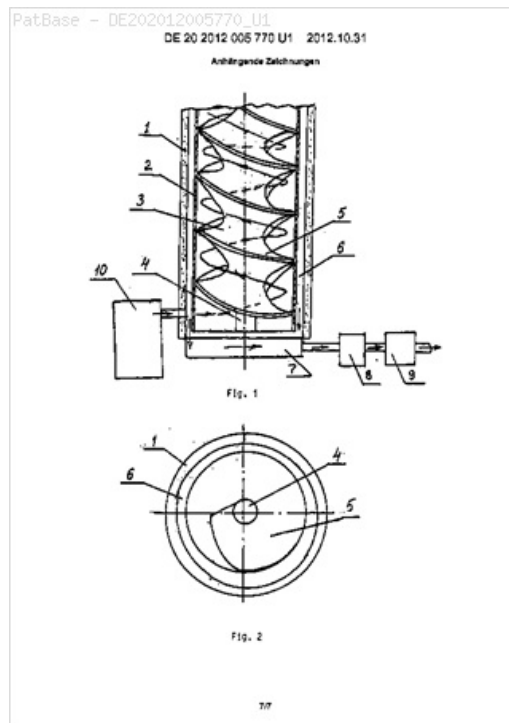
Abstract: Source: DE202012005770U1 [DE] Schornstein fuer ein Heizgeraet (10) in Form eines senkrechten Rohrs, das eine Einrichtung (8) fuer den Abzug des Rauchs aufweist, dadurch gekennzeichnet, dass er aus einigen Abschnitten eines metallischen Rohrs gebildet ist, wobei jeder Abschnitt mit einer Schraubenbeilage (3) versehen ist, dass die Schraubenbeilagen (3) in einem geschlossenen zylindrischen metallischen Mantel (2) angeordnet und auf einem metallischen Kern (4) mit dem Rand eines metallischen Bands (5) aufgeschweisst sind, dass das Band (5) mit dem aeusseren Rand dicht an die Wand des Mantels (2) angrenzt, dass der Schritt der Spirale nicht kleiner ist als die Breite des Bands (5) und dass der Mantel (2) mit der eingebauten Schraubenbeilage (3) innerhalb des Hemds (1) des Schornsteins mit einem zylindrischen Spielraum (6) ueber die ganze Hoehe der Schraubenbeilage (3) reicht.

Machine translation: Chimney for a heater (10) in the form of a vertical pipe, which comprises means (8) for the release of smoke, characterized in that it is formed of several sections of a metallic tube, in which (each portion with a helical insert provided 3), is that the screw inserts (3) (in a closed cylindrical metallic shell 2 is arranged), and on a metallic core (4) with the edge of a metal band (5) are welded to the outer said band (5) with the edge close to the wall of the shell adjacent (2), that the step of the spiral is not smaller than the width of the belt (5) and that the casing (2) with the installed helical insert (3) inside of the skirt (1) of the chimney with a cylindrical room (6) over the entire height of the helical insert ranges (3).

Classifications:

International (IPC 8-9): F23J11/00 (Advanced/Invention)

CPC: F23J11/00 F23L17/16



Family:

Publication number	Publication date	Application number	Application date
DE202012005770 U1	20121031	DE201220005770U	20120614

Priority:

DE201220005770U 20120614

Probable Assignee:

MANVELYAN MICHAEL

Assignee(s): (std):

MANVELYAN MICHAEL

Assignee(s):

MANVELYAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE202012005770 U1	20121031	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202012005770 U1	20121031	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20121031
DE202012005770 U1	20160101	LSLE	-R156	LAPSE OF IP RIGHT AFTER 3 YEARS	
DE202012005770 U1	20220614	PEXP		Calculated Patent Term Expiry	

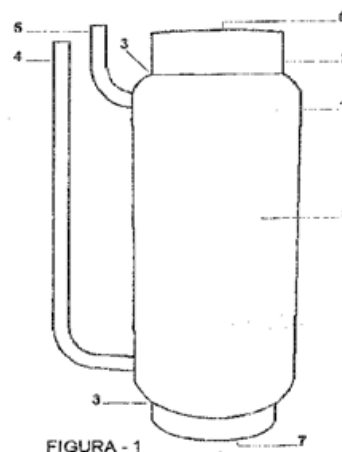
Title: RECUPERADOR, COM DIRECIONADORES DE CALOR, PARA REAPROVEITAR PARTE DO CALOR DESPERDICADO PELA CHAMINE DO FOGAO A LENHA NO AQUECIMENTO DE AGUA EM UM RESERVATORIO TERMICO INSTALADO ACIMA DO FORRO **STOVE**, HEAT WITH DRIVERS FOR PART OF reuse waste heat by **stove** chimney WOOD IN WATER HEATING IN A RESERVOIR INSTALLED THERMAL LINING UP (Machine translation)

Abstract: Source: BRPI1003197A [PT] RESUMO RECUPERADOR, COM DIRECIONADORES DE CALOR, PARA REAPROVEITAR PARTE DO CALOR DESPERDICADO PELA CHAMINE DO FOGAO A LENHA NO AQUECIMENTO DE AGUA EM UM RESERVATORIO TERMICO INSTALADO ACIMA DO FORRO. A presente invencao tem por finalidade converter atraves de um recuperador dotado de direcionadores de calor parte do calor liberado pela chamine do fogao a lenha, no aquecimento d'agua domiciliar com o proposito de economizar energia eletrica. O dito sistema e constituído por um boiler ou caixa d'agua com isolamento termico (12) instalado acima do forro e interligado pelos tubos (4) e (5) a camara (8) do recuperador de calor (9) formada por dois tubos de inox (1) e (2) sobrepostos e soldados (3) responsaveis pela circulacao autonoma do sistema por conveccao, sendo os direcionadores de calor (6), removiveis para a limpeza, que potencializam a eficiencia do sistema. **Machine translation:** ABSTRACT **stove**, with heat DRIVERS, to recycle waste heat PART OF THE **STOVE** CHIMNEY WOOD IN WATER HEATING IN A RESERVOIR INSTALLED THERMAL LINING UP. The present invention aims to convert through a **stove** equipped with drivers heat of the heat released by the chimney of the wood **stove**, heating d'household water with the purpose of saving electric power. The said system is constituted by a boiler or water tank with thermal **insulation** (12) installed above the ceiling and connected by tubes (4) and (5) the chamber (8) of the **stove** (9) formed by two stainless steel tubes (1) and (2) overlapping and soldiers (3) responsible for autonomous circulation system by convection, and the heat drivers (6), removable for cleaning, that enhance the efficiency of the system.

Classifications:

International (IPC 8-9): F24C13/00 (Advanced/Invention)

PatBase - BRPI1003197_A2
1/4



Family:

Publication number	Publication date	Application number	Application date
BRPI1003197 A2	20150811	BR2010PI03197	20100831

Priority:

BR2010PI03197 20100831

Probable Assignee:	ALANO JOSE ALCINO
Assignee(s): (std):	ALANO JOSE ALCINO
Assignee(s):	JOSE ALCINO ALANO
Inventor(s): (std):	ALANO JOSE ALCINO
Inventor(s):	JOSE ALCINO ALANO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI1003197 A2	20150811	LSPB	B03A	PUBLICATION OF AN APPLICATION: PUBLICATION OF A PATENT APPLICATION OR OF A CERTIFICATE OF	

				ADDITION OF INVENTION	
BRPI1003197 A2	20151020	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE AS ANUIDADES EM DEBITO.
BRPI1003197 A2	20160920	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2337 DE 20-10-2015 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDO O ARQUIVAMENTO DO PEDIDO DE PATENTE, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.

Title: A MOBILE HEARTH FOR CONTAINING A FIRE

Abstract: Hearth for containing a fire comprising a firing cylinder having a first and a second end, a supporting burning plate for supporting said first end, a number of legs supporting said burning plate and a grid placed in the firing cylinder. This hearth is advantageous, in that it is mobile and allows relatively long pieces of wood to be burnt within the firing cylinder supported by the grid.

Classifications:

International (IPC 8-9): A47J37/07 F24C1/16 (Advanced/Invention);
A47J37/07 F24C1/00 (Core/Invention)

International (IPC 1-7): A47J37/07 F24B1/18 F24C1/16

CPC: A47J37/07 F24C1/16

European: A47J37/07 F24C1/16

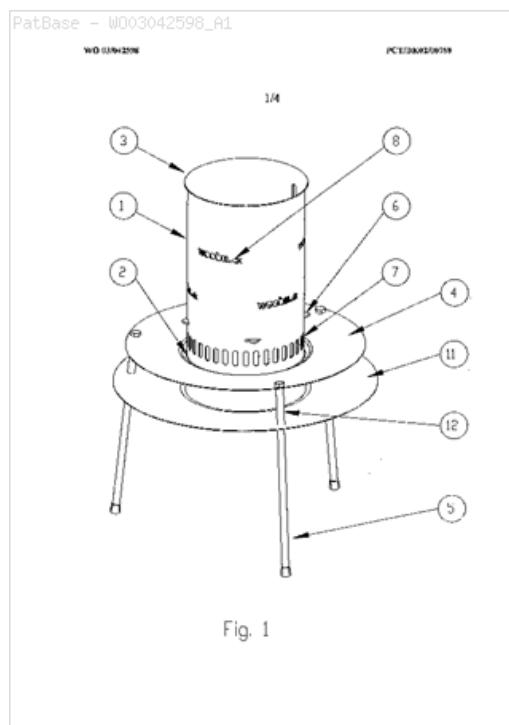


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
DK200100312 U3	20020125	DK20010000312U	20011116
WO03042598 A1	20030522	WO2002DK00768	20021115

Priority:

DK20010000312U 20011116

Probable Assignee: JENSEN JOERN G

Assignee(s): (std): JENSEN JOERN G

Inventor(s): (std): JENSEN JOERN G

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DK200100312 U3	20020125	LSPB	+	published / reissued	
DK200100312 U3	20050624	LSLE	-UBP	UTILITY MODEL LAPSED	
WO03042598 A1	20030522	LSPB	+	published / reissued	
WO03042598 A1	20050615	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO03042598 A1	20060530	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO03042598 A1	20060530	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP

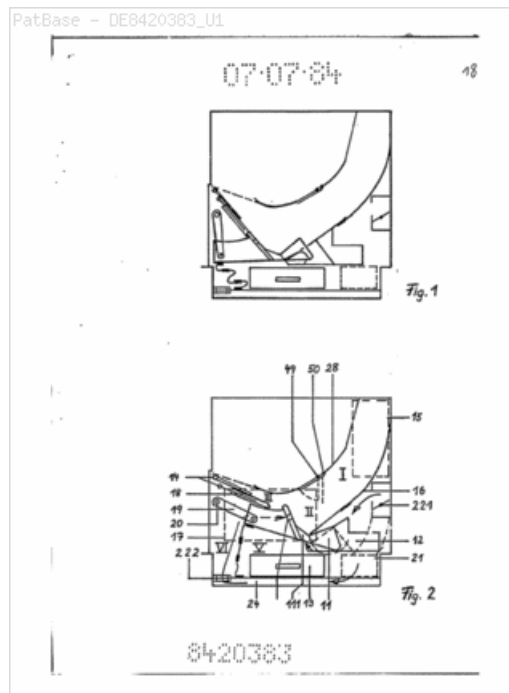
Title: VORGEFERTIGTE FEUERSTAETTE FUER FESTE BRENNSTOFFE PREFABRICATED FEUERSTAETTE FOR SOLID FUELS (Machine translation)

Abstract: Source: DE8420383U1 [DE] (Claim 1) 1. Vorgefertigte Feuerstaette fuer feste Brennstoffe mit einer schraegliegenden Brennstoffkammer und mit einem darunterliegenden, unter Veraenderung der t greater than Groesse der Rostflaeche verstellbaren zweiteiligen Rost, an den sich auf der der Brennstoffkammer gegenueber- liegenden Seite ein entgegengesetzt schraeg liegender, in seinem Volumen veraenderbarer Raum anschliesst, der in eine Ausbrennkammer muendet, dadurch gekennzeichnet, dass oberhalb zumindest eines Teiles der Brennstoff- kammer (I) und oberhalb des Rostes (11,12) und des in seinem Volumen veraenderbaren Raumes (III) ein heraus- nehmbares oder abnehmbares Bauteil angeordnet ist, welches die Ausbrennkammer (IV) und mindestens einen F. tursug (34) aufnimmt.

Machine translation: (Claim 1) 1 Prefabricated Feuerstaette for solid fuels with a schraegliegenden fuel chamber and with an underlying, under alteration of t greater than size of Rostflaeche adjustable two-piece rust, to which the fuel chamber oppositely-lying side of an oppositely inclined, connects in its volume variable space, empties into the Ausbrennkammer, wherein at least a portion above the fuel chamber (I) and is arranged above the grate (11,12) and the variable volume chamber in his (III) is an out-detachable or removable component, which the Ausbrennkammer (IV) and at least one F. tursug (34) picks up.

Classifications:

International (IPC 1-7): F24B11/00



Family:

Publication number	Publication date	Application number	Application date
DE8420383 U1	19850124	DE19840020383U	19840707

Priority:

DE19840020383U 19840707

Probable Assignee: PROEMMEL JOACHIM 3050 WUNSTORF DE

Assignee(s): PROEMMEL JOACHIM 3050 WUNSTORF DE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE8420383 U1	19850124	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Household energy-saving **firewood stove** with feed opening

Abstract: The utility model relates to a household energy-saving **firewood stove** with a feed opening. The overall outline structure of a **stove** body is basically the same as the ordinary household coal-fired return air **stove**; a feeding opening is arranged on one side of the **stove** body and directly communicated with a **stove** core; an air inlet and an air regulating plate are arranged at the bottom of the **stove** core respectively; a flameproof ring is arranged at the lower part of the **stove** core; a flame bridge is arranged between the lower part of the flameproof ring and the main air inlet; combustion-supporting air inlets are arranged at the upper part of the **stove** core and communicated with a negative pressure cavity of the **stove** core; a fire damping ring with a circular horn mouth is arranged at the top of the **stove** core; the **stove** core is manufactured into a conical cavity body structure with a small upper part and a big lower part; a cavity sandwich layer composed of an inner layer and an outer layer of the **stove** core serves as the negative pressure cavity; and an air heat **insulating** layer is arranged between the **stove** core and the **stove** body. The household energy-saving **firewood stove** has the advantages of sufficient burning, no smoke dust, high thermal efficiency and no wood tar, does not need to use secondary energy and air blast, and is secure and sanitary.

Classifications:

International (IPC 8-9): F24B1/187 F24B1/191 F24B1/195
F24B13/04 (Advanced/Invention)

PatBase - CN201858667_U

CN 201858667 U 说明书附图 1/1页

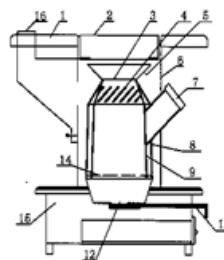


图1

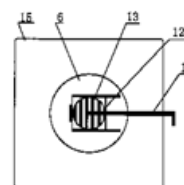


图2

Family:

Publication number	Publication date	Application number	Application date
 CN201858667 U	20110608	CN201020529577U	20100908

Priority:

CN201020529577U 20100908

Probable Assignee: ZUNYI HUOYANSHAN ELECTRICAL APPLIANCE CO LTD

Assignee(s): (std): ZUNYI HUOYANSHAN ELECTRICAL APPLIANCE CO LTD

Assignee(s): ZUNYI HUOYANSHAN ELECTRICAL APPLIANCE CO

Inventor(s): (std): ZHENG GANG DENG

Inventor(s): DENG ZHENG GANG

Legal status (INPADOC)

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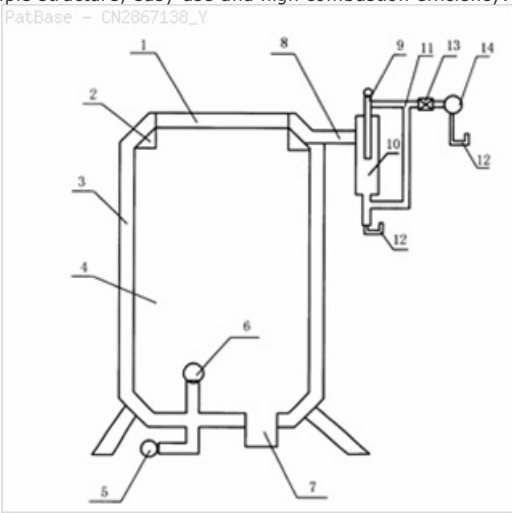
Patent	Date recorded	Event group	Code	Event	Details
CN201858667 U	20110608	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201858667 U	20110608	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201858667 U	20151028	LSWD	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN201858667 U	20200908	PEXP		Calculated Patent Term Expiry	

Title: Firewood gasification furnace

Abstract: The utility model provides a firewood gasification furnace, comprising a feed inlet (1), a gas-material insulating layer (2), a heat insulation layer (3), a storage pot (4), a fan (5), a wind head (6), an ash hole with sealed cover (7), a connection pipe (8), a gas outlet (9), an air tank (10), a three-way with connection pipe (11), a drain elbow (12), a gas switch (13) and a special stove (14). The utility model has the advantages of simple structure, easy use and high combustion efficiency.

Classifications:

International (IPC 8-9): C10B53/02 F24B1/14
F24C3/00 (Advanced/Invention);
C10B53/00 F24B1/00 F24C3/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
 CN2867138 Y	20070207	CN200620109223U	20060113

Priority:

CN200620109223U 20060113

Probable Assignee:	ZHOU GUANGRONG
Assignee(s): (std):	ZHOU GUANGRONG
Inventor(s): (std):	ZHOU GUANGRONG
Inventor(s):	GUANGRONG ZHOU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2867138 Y	20070207	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2867138 Y	20070207	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2867138 Y	20090318	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2867138 Y	20160113	PEXP		Calculated Patent Term Expiry	

Title: Center pole lodge

Abstract: A ventilating system for a tepee includes an uppermost portion of a wall of a tepee, a substantially horizontally disposed opening defined by a top of the uppermost portion, a support disposed above a center of the opening, and a cone-shaped cap having a vertex, a base and a pivot point located on a top side of the wall, wherein the pivot point is rotatably supported by the support and wherein a bottommost portion of the base, opposite from the pivot point, rests on an outer annular surface of the uppermost portion, such that the cap is rotatable about the support.

Classifications:

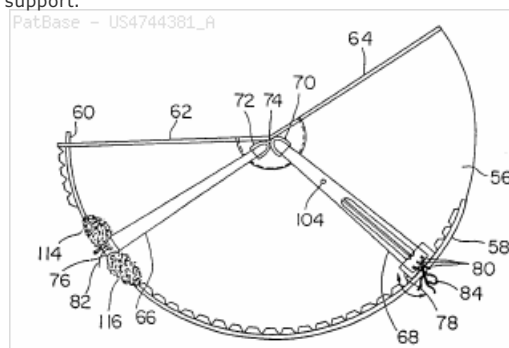
International (IPC 8-9): E04H15/14 E04H15/26 (Advanced/Invention); E04H15/00 (Core/Invention)

International (IPC 1-7): E04H15/14 E04H15/24 E04H15/26 F24B3/00

CPC: E04H15/14 E04H15/26

European: E04H15/14 E04H15/26

US: 126/15R 126/25R 126/29 126/30 126/58 126/59 126/77 126/9R 135/100 135/93 135/99



Family:

Publication number	Publication date	Application number	Application date
US4744381 A	19880517	US19860839158	19860313
US5203316 A	19930420	US19910794675	19911118

Priority:

US19860839158 19860313 US19880194951 19880517 US19900487727 19900306
US19910794675 19911118

Probable Assignee: PRITCHETT WAYNE

Assignee(s): (std): PRITCHETT WAYNE

Inventor(s): (std): PRITCHETT WAYNE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4744381 A	19880517	LSGT	+	granted / extensions (spc, cpc, pte)	
US4744381 A	19880318	LSGT	PAT1	Patented Case	
US4744381 A	19920429	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4744381 A	19960519	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4744381 A	19960730	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19960522
US4744381 A	20180130	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4744381 A	20180130	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5203316 A	19930420	LSGT	+	granted / extensions (spc, cpc, pte)	
US5203316 A	19930408	LSGT	PAT1	Patented Case	
US5203316 A	19970411	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5203316 A	20010422	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5203316 A	20010626	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20010420
US5203316 A	20180127	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5203316 A	20180127	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE

US5203316 A 20111118

PEXP

Calculated Patent Term
Expiry

Title: ELECTRIC STARTER

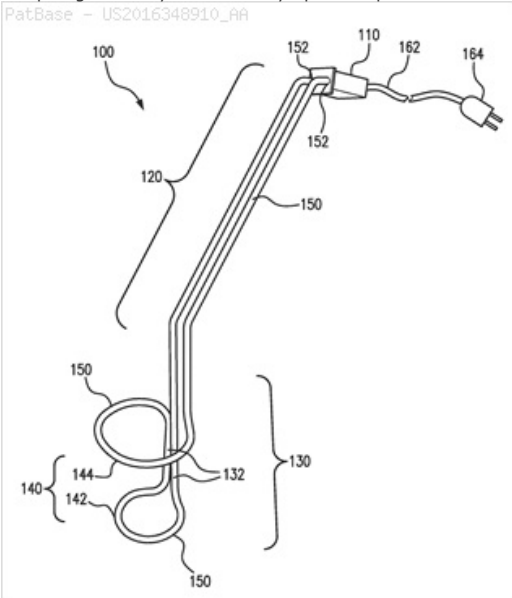
Abstract: An electric starter is disclosed, for lighting solid fuel such as charcoal or wood. The lighter includes a handle and a heating element coupled to the handle. The heating element may include multiple ignition layers vertically spaced apart.

Classifications:

International (IPC 8-9): F23Q7/02 H05B3/42 (Advanced/Invention)

CPC: F23Q7/02 H05B3/42

US: 219/270



Family:

Publication number	Publication date	Application number	Application date
US2016348910 AA	20161201	US20160165843	20160526

Priority:

US20150167080P 20150527 US20160165843 20160526

Probable Assignee: TYL INC

Assignee(s): (std): TYL INC

Inventor(s): (std): RODEN TRIPP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2016348910 AA	20161201	LSPB	+	published / reissued	
US2016348910 AA	20170707	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TYL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:RODEN, TRIPP; REEL/FRAME:042934/0854 EFFECTIVE DATE : 20170628
US2016348910 AA	20190716	LSES	ADV1	Advisory Action Mailed	

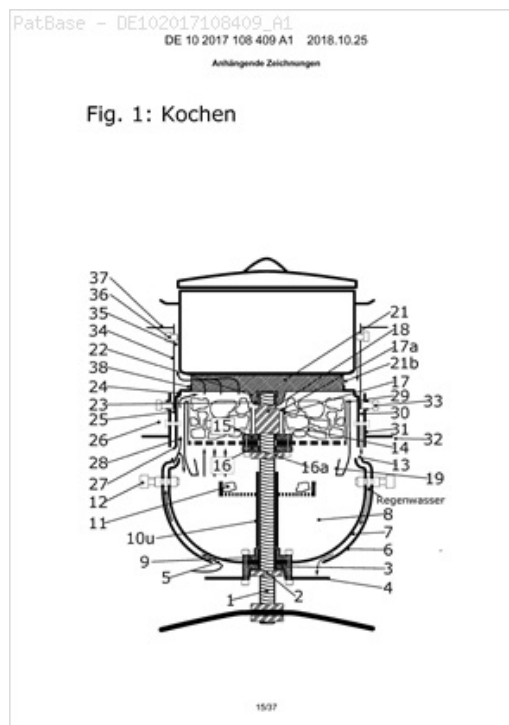
Title: UNIVERSELLES GERAET ZUR ZUBEREITUNG VON SPEISEN Universal DEVICE FOR PREPARING FOOD (Machine translation)

Abstract: Source: DE102017108409A1 [DE] Die Erfindung beschreibt ein universelles Geraet zur Zubereitung von Speisen, umfassend eine Gewindespindel (1), eine Ascheauffangvorrichtung (8), einen Anzuenderhalter (10u), eine Verbrennungskammer (14) und einen Topfhalter (21), wobei der Anzuenderhalter (10u), die Verbrennungskammer (14) und der Topfhalter (21) auf der Gewindespindel (1) verstellbar ausgebildet sind. Die Verwendung des universellen Geraetes ist vorgesehen zum Grillen und/oder Braten und/oder Raeuchern und/oder Backen und/oder Kochen. **Machine translation:** The invention describes a universal device for preparing food, comprising a threaded spindle (1), an ash capture device (8) comprising a holder (10u), a combustion chamber (14) and a holder (21), wherein the pot to a holder (10u) in the combustion chamber (14) and the cup holder (21) are formed on the threaded spindle (1). The use of the universal device is provided for grilling and/or roast and/or raeuchern and/or baking and/or **cook**.

Classifications:

International (IPC 8-9): A47J37/07 (Advanced/Invention)

CPC: A47J37/0704 A47J37/0786 A47J2037/0795



Family:

Publication number	Publication date	Application number	Application date
DE102017108409 A1	20181025	DE201710108409	20170420

Priority:

DE201710108409 20170420

Probable Assignee:

JADID RADWAN

Assignee(s): (std):

JADID RADWAN

Inventor(s): (std):

JADID RADWAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102017108409 A1	20181025	LSPB	+	published / reissued	
DE102017108409 A1	20170428	LSSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	
DE102017108409 A1	20180412	LSSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	

Title: HEAT STORAGE AND CONTROL SYSTEM FOR IMPROVING THE CONVENIENCE AND EFFICIENCY OF WOOD BURNING
STOVES

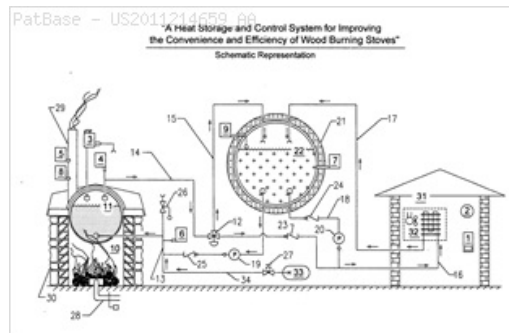
Abstract: This claim is an improvement to existing and commercially available domestic heating systems which consist of an outdoor wood burning **stove** and boiler which recirculate hot water through radiators located inside an inhabited structure or domicile. The inventor proposes the efficiency and convenience of such 'outdoor wood burning heating systems' are substantially improved by the addition of a large storage tank for the heated water and an electronic control system. The claimed improvement allows the firebox to be stoked and ignited at a time convenient to the dwelling occupant. Heated water is stored in an **insulated** water tank until called upon for heating. Combustion is optimized for maximum efficiency and atmospheric emissions are substantially reduced.

Classifications:

International (IPC 8-9): F24B1/00 F24H7/00 (Advanced/Invention)

CPC: F24B1/00 F24H7/00

US: 126/400 126/400S 126/58 126/58P



Family:

Publication number	Publication date	Application number	Application date
US2011214659 AA	20110908	US20110932052	20110217

Priority:

US20100309433P 20100302 US20110932052 20110217

Probable Assignee:

OGDEN DAVID KIRK

Assignee(s): (std):

OGDEN DAVID KIRK

Inventor(s): (std):

OGDEN DAVID KIRK

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2011214659 AA	20110908	LSPB	+	published / reissued	
US2011214659 AA	20140920	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

Title: Improved direct-fired energy-saving **stove**

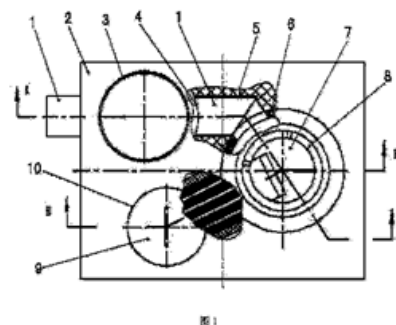
Abstract: The utility model relates to a civil **stove**, belongs to the technical field of combustion devices, and particularly discloses a direct-fired energy-saving **stove**, which mainly adopts straw, **firewood**, animal manure and the like as fuel. The energy-saving **stove** is improved in that: a cylindrical water tank cavity communicated with a **stove** platform surface is arranged in a flue section connected with a heating cavity, wherein a water tank is placed in the water tank cavity to form a ring-shaped flue; and integrally-solidified materials formed by mixing heat **insulating** materials and cement are filled in a space formed by a combustion hopper, the heating cavity, the water tank cavity and the **stove** body. In the **stove** provided by the utility model, the water tank and the **stove** body adopt a separated structure, are easy to dismount for cleaning, and have low probability of rusting and fouling; and the heat **insulating** materials adopting an integral structure are better to be positioned and can not be damaged during a long-distance transport.

Classifications:

International (IPC 8-9): F24B1/183 F24B1/191 (Advanced/Invention)

PatBase - CN202195511_U

CN 202195511 U 说明书附图 1/2 页



Family:

Publication number	Publication date	Application number	Application date
 CN202195511 U	20120418	CN201120299423U	20110817

Priority:

CN201120299423U 20110817

Probable Assignee:	ZHENGXIONG YANG
Assignee(s): (std):	ZHENGXIONG YANG
Assignee(s):	YANG ZHENGXIONG
Inventor(s): (std):	ZHENGXIONG YANG
Inventor(s):	YANG ZHENGXIONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202195511 U	20120418	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202195511 U	20120418	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202195511 U	20131009	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN202195511 U	20210817	PEXP		Calculated Patent Term Expiry	

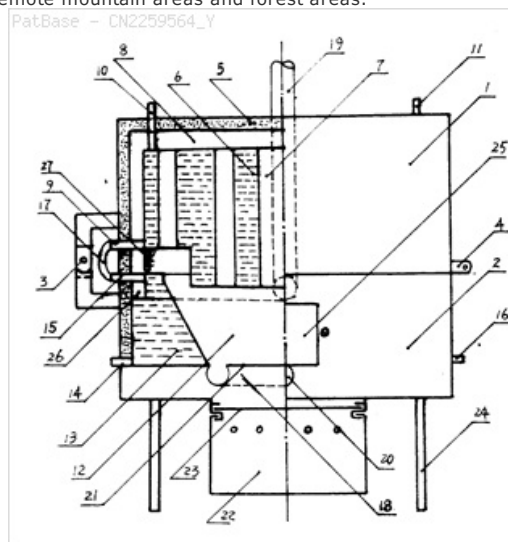
Title: Multi-purpose **firewood**-combustion **stove**

Abstract: The utility model relates to a multi-purpose **firewood**-combustion **stove**, which has a structure of a coupling split type of the whole body. The upper part of the utility model is a water tank body which can be relatively tilted; the lower part of the utility model is a **stove** chamber body; the upper part is coupled by a hinge; a plurality of tubular flues are arranged in a water tank of the water tank body; a rotary smoke cavity is formed in the space of the water tank and a sandwich of a heat **insulation** layer; the rotary smoke cavity is communicated with an annular smoke groove arranged outside a **stove** opening of the **stove** chamber body and between a water jacket and the heat **insulation** layer; a water outlet of the water jacket of the **stove** chamber is connected with a water inlet of the water tank by a soft pipe. The **stove** has the advantages of high heat efficiency, and safe and sanitary use. Besides, the utility model can save **firewood** by 50 percent; the utility model has the functions of **cooking**, showering and heating; the utility model is an ideal **stove** for remote mountain areas and forest areas.

Classifications:

International (IPC 8-9): F24B7/00 (Advanced/Invention);
F24B7/00 (Core/Invention)

International (IPC 1-7): F24B7/00



Family:

Publication number	Publication date	Application number	Application date
■ CN2259564 Y	19970813	CN19962011043U	19960507

Priority:

CN19962011043U 19960507

Probable Assignee: GUO KAIZHAN

Assignee(s): (std): GUO KAIZHAN

Inventor(s): (std): GUO KAIZHAN ; KAIZHAN GUO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2259564 Y	19970813	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2259564 Y	19970813	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2259564 Y	19990707	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2259564 Y	20060507	PEXP		Calculated Patent Term Expiry	

Title: SYSTEMS AND METHODS FOR HEATING WATER USING BIOFUEL

Abstract: The present invention may be embodied as a biofuel heating system for converting biofuel to heat energy to be delivered to a load comprising a combustion chamber defining a combustion zone, an under-fire zone, and an over-fire zone. A controller operates at least one of a fan, an under-fire damper, and an over-fire damper based on at least one operating parameter such that air flows along a flow path extending from at least one of an under-fire port and an over-fire port, through the combustion chamber, through a burn-out port, through a burn-out chamber, through a heat exchange port, through a heat exchange chamber, and out of an exhaust port. The heat exchange system transfers heat energy from air flowing through the heat exchange chamber to the working fluid.

Classifications:

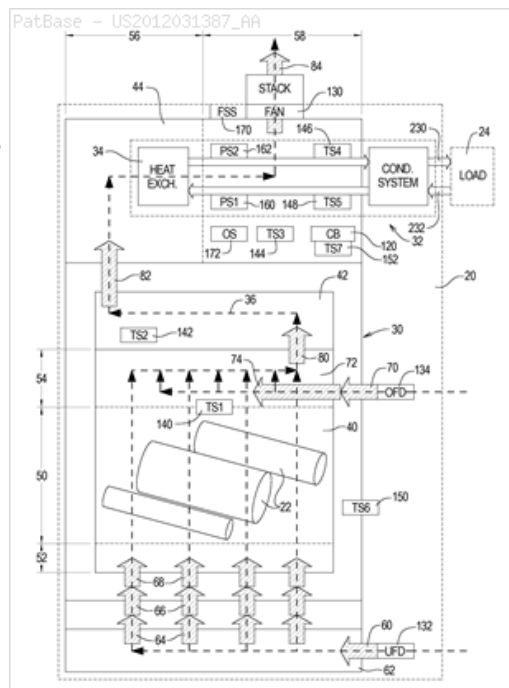
International (IPC 8-9): F23G5/44 F23G5/46 F23G5/50 F23G7/00
F23J11/00 F23L1/00 F24B1/188 F24B13/00 F24C1/00 F24H1/00 F24H1/08
F24H9/20 (Advanced/Invention)

CPC: F23G5/50 F23G2207/30 F23G2209/26 F24B13/004 F24H9/2035

F24H1/0027 F24H1/08 F24B1/1881

European: F23G5/50 F24B1/188B F24B13/00D R23G207/30 R23G209/26

US: 1/1 122/14.2 122/17.2 122/18.4 126/58 126/58P



Family:

Publication number	Publication date	Application number	Application date
EP2601444 A2	20130612	EP20110815423	20110808
EP2601444 A4	20180110	EP20110815423	20110808
US2012031387 AA	20120209	US20110205503	20110808
US2015362216 AA	20151217	US20150835563	20150825
US9115900 BB	20150825	US20110205503	20110808
US9568214 BB	20170214	US20150835563	20150825
WO12019196 A2	20120209	WO2011US46973	20110808
WO12019196 A3	20120705	WO2011US46973	20110808

Priority:

US20100371288P 20100806 US20110205503 20110808 WO2011US46973 20110808
US20150835563 20150825

Probable Assignee: GREENWOOD CLEAN ENERGY INC

Assignee(s): (std): DENTON DOUGLAS S ; GREENWOOD CLEAN ENERGY INC ; KUEHNER MICHAEL R ; LOUVIERE BRYAN J ; SHARPE DAVID S

Inventor(s): (std): DENTON DOUGLAS S ; LOUVIERE BRYAN J ; KUEHNER MICHAEL R ; SHARPE DAVID S

Agent(s): PLUCKROSE ANTHONY WILLIAM; MICHAEL R; SCHACHT LAW OFFICE INC; SCHACHT MICHAEL R

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 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 PE PG PH PL PT QA RO RS RU 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP2601444 A2	20130612	LSPB	+	published / reissued	
EP2601444 A2	20130612	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20130306

EP2601444 A4	20180110	LSSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20171213
EP2601444 A4	20190116	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20180719
US2012031387 AA	20120209	LSPB	+	published / reissued	
US2012031387 AA	20150805	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2015362216 AA	20151217	LSPB	+	published / reissued	
US2015362216 AA	20160915	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GREENWOOD CLEAN ENERGY, INC., WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SHARPE, DAVID S.; KUEHNER, MICHAEL R.; DENTON, DOUGLAS S.; AND OTHERS; REEL/FRAME:039756/0252 EFFECTIVE DATE : 20110815
US2015362216 AA	20170125	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US9115900 BB	20150825	LSGT	+	granted / extensions (spc, cpc, pte)	
US9115900 BB	20111014	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GREENWOOD CLEAN ENERGY, INC., WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SHARPE, DAVID S.; KUEHNER, MICHAEL R.; DENTON, DOUGLAS S.; AND OTHERS; REEL/FRAME:027067/0069 EFFECTIVE DATE : 20110815
US9115900 BB	20150805	LSGT	PAT1	Patented Case	
US9115900 BB	20190415	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US9115900 BB	20340306	PEXP		Calculated Patent Term Expiry (PTA 941 days)	
US9568214 BB	20170214	LSGT	+	granted / extensions (spc, cpc, pte)	
US9568214 BB	20170125	LSGT	PAT1	Patented Case	
US9568214 BB	20350825	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
WO12019196 A2	20120209	LSPB	+	published / reissued	
WO12019196 A3	20130206	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO12019196 A3	20130306	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2011815423 COUNTRY OF REF DOCUMENT : EP

Title: APPARATUS AND PROCESS FOR PRODUCING CHARCOAL FROM WOOD

Abstract: An apparatus and process for producing charcoal in a kiln from hardwood. The kiln is constructed over an array of hardwood logs supported on a suitable platform. Fill material is used to form a surrounding jacket surrounding the hardwood, a sawdust layer is applied over the surrounding jacket, and an airtight layer of clay earth and sand is applied over the sawdust layer. An ignition access port is provided through the several layers to allow ignition and combustion of the hardwood, after which the access port is closed to prevent air from entering the interior of the kiln during burning of the hardwood. After a predetermined burning time, the kiln and its contents are allowed to cool, and the filler, clay earth, sand and any remaining debris are removed from the hardwood. The hardwood is then cooled a second time, and then cooled a third time by stifling the hardwood, such as in a cooling box capped with earth.

Classifications:

International (IPC 8-9): C10B53/02 C10B9/00

F27B14/10 (Advanced/Invention);

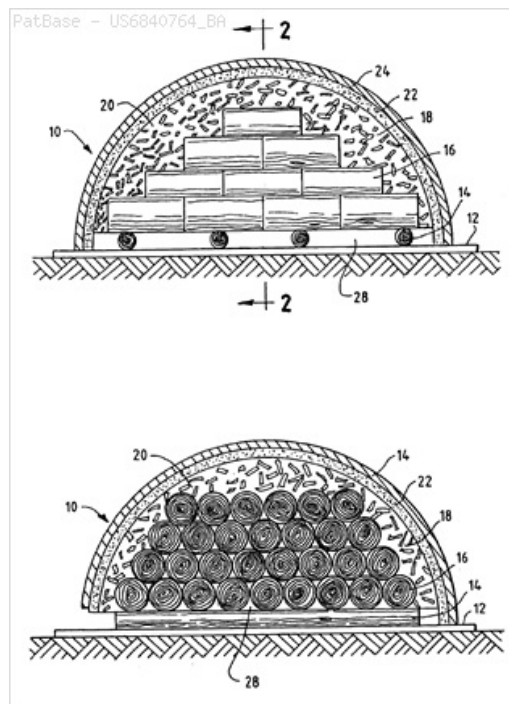
C10B53/00 C10B9/00 F27B14/00 (Core/Invention)

International (IPC 1-7): F27B14/10

CPC: C10B9/00 C10B53/02 Y02E50/14

European: C10B53/02 C10B9/00 Y02E50/14

US: 202/211 202/93 432/156 432/262 44/590 44/620



Family:

Publication number	Publication date	Application number	Application date
US6840764 BA	20050111	US20030663541	20030916

Priority:

US20030663541 20030916

Probable Assignee:

KENNEDY EUGENE

Assignee(s):

KENNEDY EUGENE

Inventor(s): (std):

KENNEDY EUGENE

Agent(s):

BARNES AND THORNBURG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US6840764 BA	20050111	LSGT	+	granted / extensions (spc, cpc, pte)	
US6840764 BA	20080819	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6840764 BA	20130111	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6840764 BA	20130111	LSRE	+REIN	REINSTATEMENT AFTER MAINTENANCE FEE PAYMENT CONFIRMED	
US6840764 BA	20130305	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20130111
US6840764 BA	20140220	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6840764 BA	20140707	LSRE	+PRDP	PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE	EFFECTIVE DATE : 20140709

US6840764 BA	20140709	LSGT	PAT1	Patented Case	
US6840764 BA	20140709	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6840764 BA	20170105	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6840764 BA	20230916	PEXP		Calculated Patent Term Expiry	

Title: A FUEL EFFICIENT, PORTABLE, NATURAL DRAFT, FRONT-LOADING BIOMASS FIRED DOMESTIC **COOK STOVE**

Abstract: A low cost portable domestic **stove** is designed and developed which can burn fuelwood with less emission of smoke. These **cook stoves** are operated by natural draft and able to reduce 30 percent fuel consumption, besides drastic reduction of smoke, carbon monoxide, carbon monoxide gas and particulate matter (black carbon) into the environment. So this is used for **cooking** in smokeless condition with reduced fuelwood consumption and pollution. The portable domestic **cook stove** of 0.65 to 1.1 kg/hr are designed and developed for domestic purposes which is fuel efficient and having low emission rate. The Thermal Efficiency of this **stove** is varying from 26.0 to 28.0 percent, and emissions like CO (2.81 to 3.03 g/MJd) and PM (212.6 to 300.0 mg/MJd) are within the BIS limits. The power of this **stove** is 0.88 to 1.64 kW. This **stove** is a portable multi fuel natural draft with front fuel feeding. This is a metallic **stove** where inside combustion chamber were made with mild steel or stainless steel flats shaped as ring placed one upon other with air space for entering of secondary air.

Classifications:

International (IPC 8-9): B65D21/08 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201611029844 A	20180309	IN201611029844	20160901

Priority:

IN201611029844 20160901

Probable Assignee: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Assignee(s): COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Inventor(s): BIBHUDATTA PRADHAN ; SANTOSH KUMAR MISHRA ; SNEHASIS BEHERA

Legal status (INPADOC)

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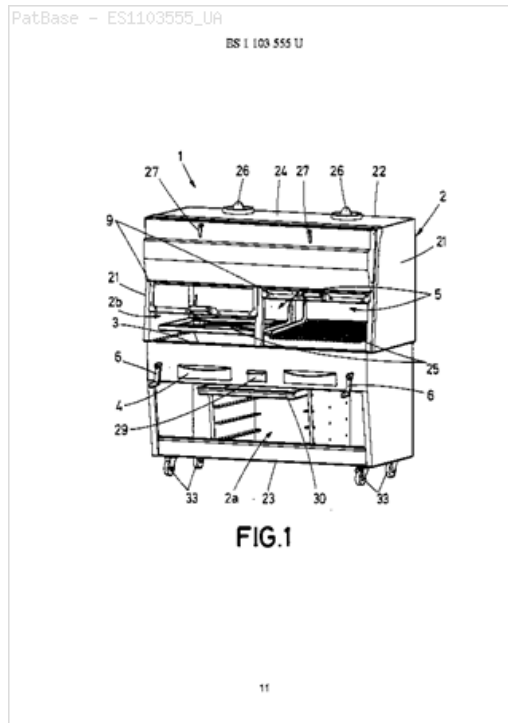
Patent	Date recorded	Event group	Code	Event	Details
IN201611029844 A	20180309	LSPB	+	published / reissued	

Title: HORNO ASADOR MULTIPLE A LENA O CARBON VEGETAL

Abstract: Source: ES1103555U [ES] 1. Horno asador multiple a lena o carbon vegetal que, siendo del tipo que se configura a partir de un cuerpo (2) metalico, en el que, al menos, se contempla una pared posterior (22) una base inferior (23) y una superior (24) que determinan un espacio interior con una zona de asado con bandejas (3) donde se colocan las brasas, esta caracterizado por contar con uno o mas bastidores moviles (5) con desplazamiento vertical mediante un actuador manual (6) y dotados de medios para acoplar en ellos diferentes utiles intercambiables para depositar los alimentos situandolos a alturas variables, regulables mediante dicho actuador, sobre la fuente de calor que constituyen el fuego y las brasas de las bandejas (3). 2. Horno asador multiple a lena o carbon vegetal, segun la reivindicacion 1, caracterizado porque cada uno de los bastidores moviles (5) consiste en una placa (51) metalica rectangular, dispuesta verticalmente entre dos guias (7) verticales adosadas sobre la pared posterior (22) del cuerpo del horno. 3. Horno asador multiple a lena o carbon vegetal, segun la reivindicacion 2, caracterizado porque las placas (51) estan asociadas a un mecanismo de pinones y ejes que, a su vez, se vincula a una manivela, situada en el frontal cuerpo (2) del horno, la cual constituye el actuador manual para, a traves de su giro, hacer que la placa (51) correspondiente se eleve o se aproxime a la bandeja (3) de brasas. 4. Horno asador multiple a lena o carbon vegetal, segun cualquiera de las reivindicaciones 1-3, caracterizado porque los medios para acoplar los utiles intercambiables en las placas (51) de cada bastidor movil (5), consisten en hendiduras (8) previstas en ambos lados de cada placa (51), siendo aptas para insertar en ellas los correspondientes anclajes de soporte con que esta provisto cada utensilio. 5. Horno asador multiple a lena o carbon vegetal, segun cualquiera de las reivindicaciones 1-4, caracterizado porque el cuerpo (2), que tiene una configuracion prismatica, con dos paredes laterales (21) una posterior (22) base inferior (23) y superior (24) que determinan un espacio interior dividido, en una zona inferior (2a) de almacenamiento y una zona superior (2b) de asado, por las bandejas (3) de las brasas, cuenta con puertas frontales deslizantes (9) metalicas y de accionamiento semi-vertical, que se acoplan por su propio peso. **Machine translation:** 1. Multiple rotisserie oven to wood or charcoal which, being of the type that is formed from a body (2) metal, in which at least a rear wall (22) having a lower base (23) and an upper contemplated (24) defining an interior space with an area of roast trays (3) where the coals are placed, it is characterized by having one or more mobile racks (5) vertical displacement by a manual actuator (6) and provided with means for coupling them useful for different deposit interchangeable, adjustable by said actuator, on the heat source to provide the heat and flames of the trays (3) by placing a food variable heights. Two. Multiple rotisserie oven to wood or charcoal according to claim 1, wherein each of the mobile racks (5) consisting of a plate (51) rectangular metallic, arranged vertically between two guides (7) attached on the rear vertical wall (22) of the furnace body. Three. Multiple rotisserie oven to wood or charcoal, according to claim 2, characterized in that the plates (51) are associated to a mechanism of gears and shafts which, in turn, to a crank on the front body (2) is linked furnace, which is the manual actuator, through its rotation, making the plate (51) corresponding rise or approaching the tray (3) of coals. April. Multiple rotisserie oven to wood or charcoal, according to any of claims 1-3, characterized in that the means of attaching the exchangeable useful in the plates (51) of each mobile frame (5), consist of slits (8) provided on both sides of each plate (51) being suitable for inserting therein corresponding support braces that each utensil is provided. May. Multiple rotisserie oven to wood or charcoal, according to any of claims 1-4, characterized in that the body (2) which has a prismatic configuration, with two side walls (21) a rear (22) lower base (23) and higher (24) that determine an interior space divided into a lower zone (2a) and storage area above (2b) roast for trays (3) of the coals, has metal sliding front doors (9) and of semi-vertical drive, which is coupled by its own weight.

Classifications:

International (IPC 8-9): A21B1/00 F24B1/20 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
ES1103555 UA	20140319	ES20140030304U	20140307
ES1103555 Y1	20140610	ES20140030304U	20140307

Priority:

ES20140030304U 20140307

Probable Assignee: BARQUEROS LOPEZ JOSE NARCISO

Assignee(s): (std): BARQUEROS LOPEZ JOSE NARCISO

Assignee(s): JOSE NARCISO BARQUEROS LOPEZ

Inventor(s): (std): BARQUEROS LOPEZ JOSE NARCISO
Inventor(s): JOSE NARCISO BARQUEROS LOPEZ

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES1103555 UA	20140319	LSPB	+	published / reissued	
ES1103555 UA	20140610	LSGT	+FG1K	UTILITY MODEL GRANTED	EFFECTIVE DATE : 20140604
ES1103555 UA	20170426	LSLE	-FD1K	UTILITY MODEL LAPSED	EFFECTIVE DATE : 20170426
ES1103555 Y1	20140610	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1103555 Y1	20240307	PEXP		Calculated Patent Term Expiry	

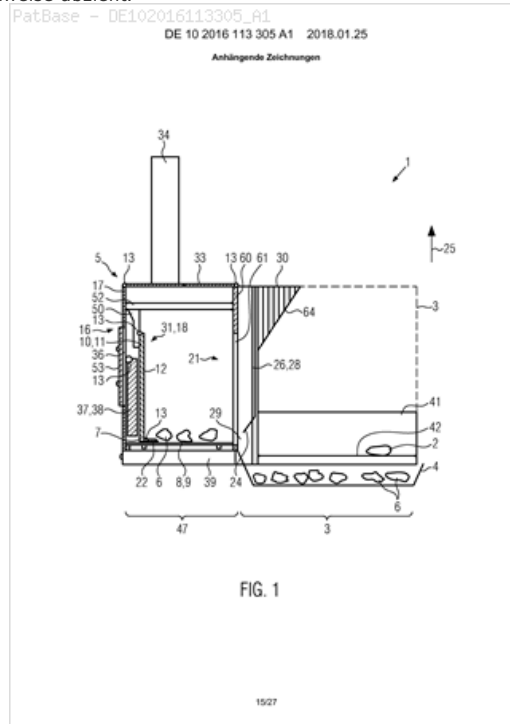
Title: ANZUENDVORRICHTUNG FUER BRENNSTOFFE UND WAERMVORRICHTUNG ZUM ERWAERMEN VON ESSBAREM ERWAERMUNGSGUT

Abstract: Source: DE102016113305B4 [DE] Anzuendvorrichtung (5) zum Entzuenden von abbrennendem Brennstoff (6) als Waermequelle zur Erwaermung von Lebensmitteln, insbesondere Fleisch, mit einer Brennstoffauflage (8), auf welcher der Brennstoff (6) anordenbar ist, wobei die Brennstoffauflage (8) luftdurchlaessig, insbesondere als Rost (9) ausgebildet ist, dadurch gekennzeichnet, dass eine relativ zu der Brennstoffauflage (8) beweglich und als Abziehmechanismus (10) ausgebildete Transporteinrichtung (7) zum wenigstens teilweisen Abziehen des entzuendeten Brennstoffes (6) von der Brennstoffauflage (8) vorgesehen ist, wobei der Abziehmechanismus (10) zum Verschieben von Brennstoff (6) aus der Anzuendvorrichtung (5) ausgebildet ist und einen Schild (11) aufweist, der wenigstens zwischen einer Rueckzugsposition (18) und einer Entleerungsposition (19) und gegebenenfalls in wenigstens eine Zwischenposition (20) verschieblich ist und bei Betaetigung entzuendeten Brennstoff (6) von der Brennstoffauflage (8) wenigstens teilweise abzieht.

Classifications:

International (IPC 8-9): A47J37/07 (Advanced/Invention)

CPC: A47J37/079



Family:

Publication number	Publication date	Application number	Application date
DE102016113305 A1	20180125	DE201610113305	20160719
DE102016113305 B4	20190627	DE201610113305	20160719

Priority:

DE201610113305 20160719

Probable Assignee:

DIETRICH DANIEL T

Assignee(s): (std):

DIETRICH DANIEL T

Inventor(s): (std):

DIETRICH DANIEL T

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102016113305 A1	20180125	LSPB	+	published / reissued	
DE102016113305 A1	20160719	LSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	
DE102016113305 A1	20170713	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102016113305 A1	20190319	LSGT	+R018	GRANT DECISION BY EXAMINATION SECTION/EXAMINING DIVISION	
DE102016113305 B4	20190627	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102016113305 B4	20360719	PEXP		Calculated Patent Term Expiry	

Title: Artificial ember bed

Abstract: An artificial ember bed (5) for use within a fireplace (7) is disclosed. The fireplace will include a burner (12, 13) positioned below an elevated log grate (19), on which at least a pair of spaced artificial logs (20, 21) will be positioned. Situated in the space defined by, and between the logs will be an ember bed support grate (24), having an elevated surface on which a plurality of non-combustible artificial embers (25) will be disposed such that in use they will glow to create the visual appearance of glowing embers within the fire. The ember bed support grate may be constructed with a Z-shaped or a C-shaped geometry, or may include a pair of bifurcated legs (33, 34), or a pair of spaced legs (36, 37) for supporting the ember bed support grate on the log grate within the fireplace. In addition, the ember bed support grate can be fashioned as a planar grate, supported either on the logs, or received within notches (39) defined within opposed faces of the logs when situated atop the log grate.

Classifications:

International (IPC 8-9): F24C3/00 (Advanced/Invention);
F24C3/00 (Core/Invention)

International (IPC 1-7): F24C3/00

CPC: F24C3/006

European: F24C3/00A2

US: 126/152B 126/512 126/92R 431/125

PatBase - US5839427_A

U.S. Patent Nov. 24, 1998 Sheet 1 of 2 5,839,427

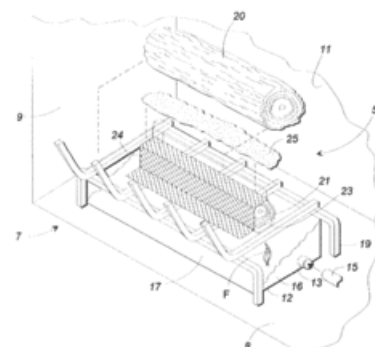


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US5839427 A	19981124	US19970996627	19971223

Priority:

US19970996627 19971223

Probable Assignee: AMERICAN GAS LOG CO INC

Assignee(s): (std): AMERICAN GAS LOG CO INC ; AMERICAN GAS LOG COMPANY INC

Assignee(s): WACHOVIA BANK NATIONAL ASSOC ; WACHOVIA BANK NATIONAL ASSOCIATION

Inventor(s): (std): SHORTS JOSEPH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5839427 A	19981124	LSGT	+	granted / extensions (spc, cpc, pte)	
US5839427 A	19971223	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AMERICAN GAS LOG COMPANY, INC., GEORGIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:SHORTS, JOSEPH; REEL/FRAME:008938/0942 EFFECTIVE DATE : 19971222
US5839427 A	20020429	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5839427 A	20050606	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WACHOVIA BANK, NATIONAL ASSOCIATION, GEORGIA OLDPARTY : SECURITY INTEREST;

US5839427 A	20061124	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5839427 A	20061227	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5839427 A	20061227	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5839427 A	20070123	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20061124
US5839427 A	20171223	PEXP		Calculated Patent Term Expiry	

Title: Gasification type **firewood** burning hot water **stove**

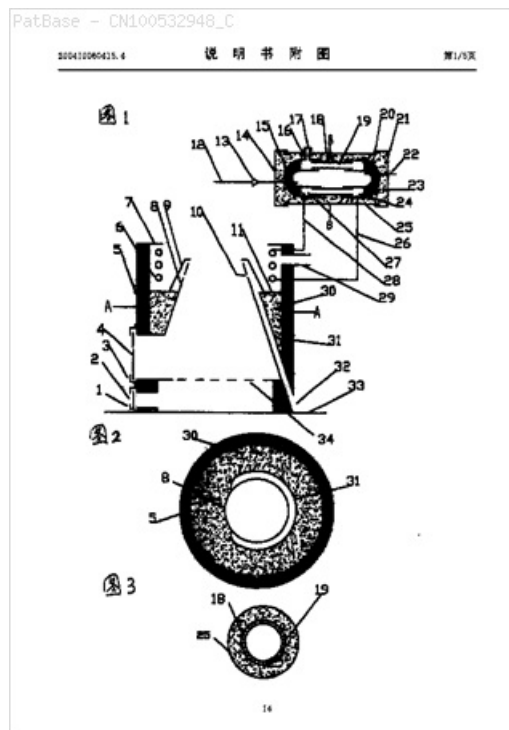
Abstract: The invention is a gasification **firewood** water heating kitchen range, and its kitchen range chamber is separated into top and bottom combustion chambers, there is secondary air feeding channel around the kitchen range chamber, the first combustion chamber is provided with secondary air inlet hole and gap on the top, the peripheral part in the second combustion chamber is installed with residual heat absorber, the cavity of the residual heat absorber is connected with thermal **insulating** water tank through pipeline, discharge flue is installed with heating radiator, and the invention adopts primary gasification and secondary air feeding structure and can make the **firewood** fully fire, both raising the combustion thermal efficiency of the **firewood** and reducing strong smoke pollution to the atmosphere. The invention can provide large amount of living hot water and heat and reducing atmospheric pollution while **cooking** a meal.

Classifications:

International (IPC 8-9): F24B5/06 F24B9/00 (Advanced/Invention)

CPC: Y02B40/163

European: Y02B40/16B



Family:

Publication number	Publication date	Application number	Application date
■ CN100532948 C	20090826	CN200410060415	20040719
■ CN1724939 A	20060125	CN200410060415	20040719

Priority:

CN200410060415 20040719

Probable Assignee: GAO XIANG

Assignee(s): (std): GAO XIANG ; XIANG GAO

Inventor(s): (std): GAO XIANG WANG ; PING WANG ; XIANG GAO

Inventor(s): XIANG WANG GAO ; WANG PING ; GAO XIANG

Agent(s):

Legal status (INPADOC)

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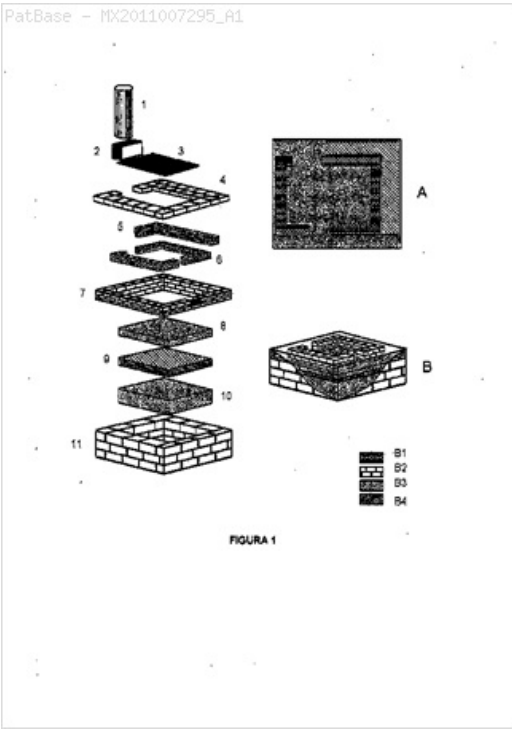
Patent	Date recorded	Event group	Code	Event	Details
CN100532948 C	20090826	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100532948 C	20090826	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100532948 C	20120919	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN100532948 C	20240719	PEXP		Calculated Patent Term Expiry	
CN1724939 A	20060125	LSPB	+	published / reissued	
CN1724939 A	20060125	LSPB	+C06	PUBLICATION	

Title: TRADITIONAL **STOVE**.

Abstract: THE PRESENT INVENTION RELATES TO A PROCESS FOR CONSTRUCTING A TRADITIONAL **STOVE**, AND TO THE **STOVE** ITSELF. THIS TYPE OF **STOVE** IMPROVES THE LIVING CONDITIONS AND THE ECONOMIC OPPORTUNITIES IN THE FAMILIES USING THE TRADITIONAL OPEN FIRE **STOVE**, WITH THE PURPOSE OF USING **FIREWOOD** IN A SUSTAINABLE MANNER AND CONTRIBUTING TO THE PROTECTION OF NATURAL RESOURCES AND THE REDUCTION OF THE ECOLOGICAL AND SOCIAL VULNERABILITY.

Classifications:

International (IPC 8-9): F24B13/00 F24C15/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
MX2011007295 A1	20130124	MX20110007295	20110707

Priority:

MX20110007295 20110707

Probable Assignee:	MARQUEZ YOLANDA MARTINEZ
Assignee(s): (std):	MARQUEZ YOLANDA MARTINEZ
Assignee(s):	YOLANDA MARTINEZ MARQUEZ
Inventor(s): (std):	MARQUEZ YOLANDA MARTINEZ
Inventor(s):	YOLANDA MARTINEZ MARQUEZ

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
MX2011007295 A1	20130124	LSPB	+	published / reissued	

Title: HORNO.

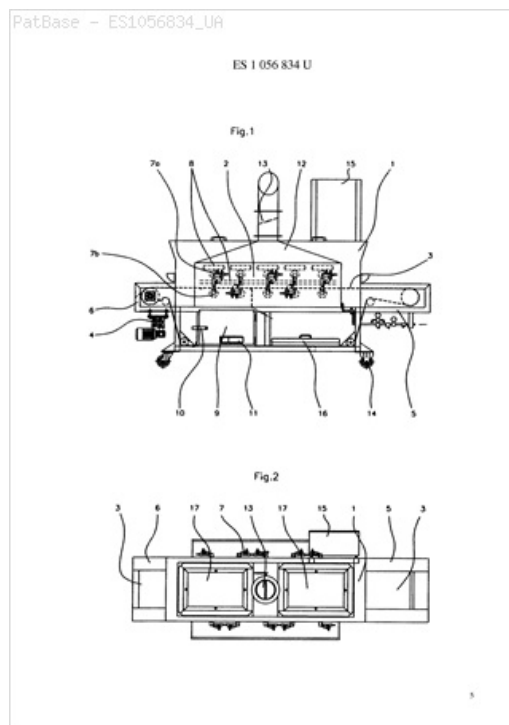
Abstract: Source: ES1056834U [ES] 1. Horno de tipo automatico para cocinar en continuo alimentos en grandes cantidades dejandolos listos para su consumo inmediato caracterizado esencialmente por presentar una estructura a modo de tunel de seccion rectangular que forma el esqueleto de la maquina, en donde se disponen dos zonas de combustion, una principal a gas propano o similar, formada por unas precamaras de combustion, una en la parte de entrada del hogar y otra en la de salida, y la camara de combustion propiamente dicha en donde se alojan las toberas de unos quemadores en dos hileras superpuestas, con los quemadores situados de forma alternativa, siendo esta camara de combustion a la vez la camara de coccion de los alimentos, la cual es atravesada por una parrilla-grill a modo de cinta sin fin movida por un motor reductor cuya velocidad de avance es regida por un variador de frecuencia incorporado en un cuadro de maniobra; y una segunda zona de combustion con un combustible secundario tal como lena, constituida por unacamara de combustion adicional, dispuesta en la parte inferior del horno y comunicada con la camara de coccion. **Machine translation:** 1. Automatic continuous type furnace for **cooking** food in large quantities leaving them ready for immediate consumption, characterized essentially by presenting a structure like a tunnel rectangular section forming the skeleton of the machine, in which are arranged two combustion zones, a main to propane gas or the like, formed by combustion prechambers, one at the inlet portion of the home and another at the output, and the combustion chamber itself where it is housed the nozzles of the burners in two rows, with the burners located alternatively, this being combustion chamber at the same time the **cooking** of food, which is traversed by A grill-grill by way of treadmill driven by a geared motor whose speed is governed by a variable frequency drive incorporated in a control panel; and a second combustion zone with a secondary fuel such as **firewood**, consisting of an additional combustion unacamara, arranged in the bottom of the oven and connected to the **cooking** chamber.

Classifications:

International (IPC 8-9): F24C 1/02 (Advanced/Invention);

F24C 1/00 (Core/Invention)

International (IPC 1-7): F24C 1/02



Family:

Publication number	Publication date	Application number	Application date
ES1056834 UA	20040516	ES20040000414U	20040224
ES1056834 Y1	20040901	ES20040000414U	20040224

Priority:

ES20040000414U 20040224

Probable Assignee: BAUTERMIC S A

Assignee(s): (std): BAUTERMIC S A ; BAUTERMIC SA

Inventor(s): (std): DE LA TORRE GARRIDO FELIX ; MIR GARCIA JAIME

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES1056834 UA	20040516	LSPB	+	published / reissued	
ES1056834 Y1	20040901	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1056834 Y1	20040901	LSGT	+FG1K	UTILITY MODEL GRANTED	
ES1056834 Y1	20130910	LSLE	-FD1K	UTILITY MODEL LAPSED	EFFECTIVE DATE : 20130910

Title: Fremgangsmade til isolering af ved gaering fremstillet bacitracin fra vandige oploesninger som et kompleks.

Abstract: Source: DK124215B [SV] [Source: Claim 1] Patentkrav. Fremgangsmade til isolering af ved gaering fremstillet bacitracin fra vandige oploesninger som et kompleks ved dannelse af en udfaeldning, kendetegnet ved at man danner udfaeldningen i pH-området 2-9 med et vandoploeseligt salt af et naftalinsul- fonsyre-foimaldehyd-kondensat, fortrinsvis med et alkalimetalsalt af et sadant,• idet udfaeldningen i tilfaelde af pH-vaerdier mellem 5,5 og 9 foretages i naervaerelse af et eller flere salte af divalen- te metaller. Fremdragne publikationer: Danske patenter nr. 111686, 116271. **Machine translation:** [Source: Claim 1] claims. Fremgangsmade til **insulation** af wood gaering fremstillet ba/citracin fra vandige oploesninger as et kompleks wood dannelse af a udfaeldning, kendetegnet wood at the Danner udfaeldnin- gene in pH 2-9 area with et vandoploeseligt salt af et naftalinsul- fonsyre-foimaldehyd-condensate, fortrinsvis with et alkali metal salt af et exists,• invalidity udfaeldningen in tilfaelde af pH vaerdier mellem 5.5 og 9 before will be taken away in naervaerelse af et or flere salte af divalen- te metals. Fremdragne publications: Danske patent no. 111686, 116271.

Classifications:

International (IPC 1-7): C12D9/20

Family:

Publication number	Publication date	Application number	Application date
 DK124215 B	19720925	DK19700001116	19700306

Priority:

DK19700001116 19700306

Probable Assignee: CHINOIN GYOGYSZER ES VEGYESZET

Assignee(s): (std): CHINOIN GYOGYSZER ES VEGYESZET

Assignee(s): CHINOIN GYOGYSZER ES VEGYESZETI TERMEKEK GYARA RT

Inventor(s): (std): AMBRUS G ; BELLA L ; GOCZA L ; HORVATH I ; INCZEFI I ; MAGYAR E ; SANDOR I ; SZARKA L ; VARGA F ; KOLLAR G

Inventor(s): LASZLO BELLA ; LASZLO GOCZA ; ISTVAN SANDOR ; DR GABOR AMBRUS ; DR GYULA KOLLAR ; DR ISTVAN HORVATH ; DR ISTVAN INCZEFI ; DR LASZLO SZARKA ; EVA MAGYAR ; FERENC VARGA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DK124215 B	19720925	LSPB	+	published / reissued	
DK124215 B	19851111	LSLE	-PBP	PATENT LAPSED	

Title: EXTINGUISHING SYSTEM, EXTINGUISHER AND METHOD FOR EXTINGUISHING FIRES

Abstract: The invention relates to an extinguishing system and to an extinguisher comprising an extinguishing liquid that is an aqueous solution of potassium formate, the extinguishing system or extinguisher producing a droplet size in the range from 10 to 2000 micrometres.

Classifications:

International (IPC 8-9): A62C99/00 A62D1/00 (Advanced/Invention);

A62C99/00 A62D1/00 (Core/Invention)

International (IPC 1-7): A62C31/00 A62D1/00

CPC: A62C99/0072 A62D1/00 A62D1/0035

European: A62C99/00B12 A62D1/00 A62D1/00C2

Family:

Publication number	Publication date	Application number	Application date
AU2003231335 AA	20031202	AU20030231335	20030514
EP1503828 A1	20050209	EP20030725241	20030514
FI113013 B	20040227	FI20020000913	20020515
FI20020913 A	20031116	FI20020000913	20020515
FI20020913 A0	20020515	FI20020000913	20020515
WO03097171 A1	20031127	WO2003FI00372	20030514

Priority:

FI20020000913 20020515 WO2003FI00372 20030514

Probable Assignee: KEMIRA OYJ

Assignee(s): (std): ARVOLA JOUKO ; FAHLENIUS ARO ; HUKKANEN PENTTI ; KEMIRA CHEMICALS OY ; KEMIRA OY ; KEMIRA OYJ ; KUKKONEN JARI ; NISSINEN TIMO

Inventor(s): (std): ARVOLA JOUKO ; FAHLENIUS ARO ; HUKKANEN PENTTI ; KUKKONEN JARI ; NISSINEN TIMO

Inventor(s): PENTTI HUKKANEN ; TIMO NISSINEN ; JARI KUKKONEN ; JOUKO ARVOLA ; ARO FAHLENIUS

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2003231335 AA	20031202	LSPB	+	published / reissued	
AU2003231335 AA	20050203	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2) (F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
EP1503828 A1	20050209	LSPB	+	published / reissued	
EP1503828 A1	20050209	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20041106
EP1503828 A1	20050309	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : KEMIRA OYJ
EP1503828 A1	20080604	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20071201
FI113013 B	20040227	LSPB	+	published / reissued	
FI113013 B	20141218	LSLE	-MM	PATENT LAPSED	
FI113013 B	20220515	PEXP		Calculated Patent Term Expiry	
FI20020913 A	20031116	LSPB	+	published / reissued	
WO03097171 A1	20031127	LSPB	+	published / reissued	
WO03097171 A1	20041106	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003725241 COUNTRY OF REF DOCUMENT : EP
WO03097171 A1	20050209	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2003725241

					COUNTRY OF REF DOCUMENT : EP
WO03097171 A1	20060705	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO03097171 A1	20060705	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP
WO03097171 A1	20071201	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2003725241 COUNTRY OF REF DOCUMENT : EP

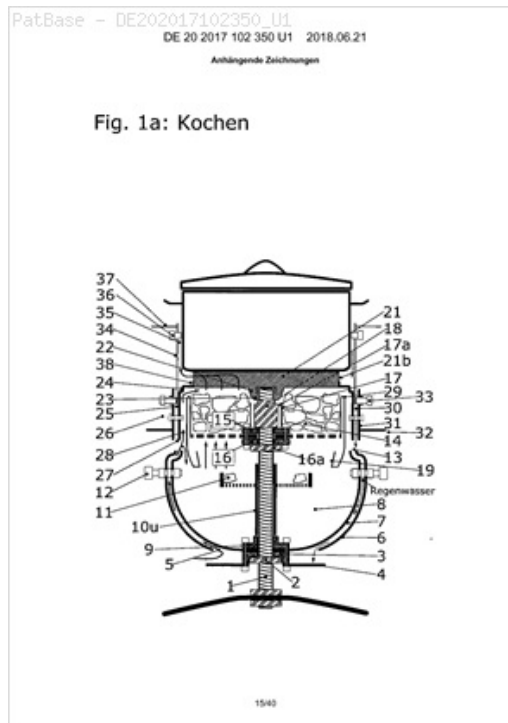
Title: UNIVERSELLES GERAET ZUR ZUBEREITUNG VON SPEISEN Universal DEVICE FOR PREPARING FOOD (Machine translation)

Abstract: Source: DE202017102350U1 [DE] Universelles Geraet zur Zubereitung von Speisen, umfassend eine Gewindespindel (1), eine Ascheauffangvorrichtung (8), einen Anzuenderhalter (10u), eine Verbrennungskammer (14) und einen Topfhalter (21), wobei der Anzuenderhalter (10u), die Verbrennungskammer (14) und der Topfhalter (21) auf der Gewindespindel (1) verstellbar ausgebildet sind. **Machine translation:** Universal device for preparing food, comprising a threaded spindle (1), an ash capture device (8) comprising a to holder (10u), a combustion chamber (14) and a holder (21), wherein the pot to a holder (10U) in the combustion chamber (14) and the cup holder (21) on the threaded spindle (1) are formed.

Classifications:

International (IPC 8-9): A47J37/07 (Advanced/Invention)

CPC: A47J37/0704 A47J37/0623 A47J37/067



Family:

Publication number	Publication date	Application number	Application date
DE202017102350 U1	20180621	DE201720102350U	20170420

Priority:

DE201720102350U 20170420

Probable Assignee:

JADID RADWAN

Assignee(s): (std):

JADID RADWAN

Assignee(s):

JADID

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE202017102350 U1	20180621	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202017102350 U1	20180621	LSGT	R207	UTILITY MODEL SPECIFICATION	
DE202017102350 U1	20270420	PEXP		Calculated Patent Term Expiry	

Title: IMPROVED BIOMASS COOKSTOVE HAVING HIGHER THERMAL EFFICIENCY

Abstract: The present invention discloses an improved, natural draft cookstove, in which the thermal efficiency is much higher than the existing cookstoves. The **stove** of the present invention has four holes at the bottom for primary air and twenty four holes in the upper side for secondary air. The adjustment mechanism is provided at the bottom so that the opening of holes can be adjusted according to the need and hence, the primary air inlet at the bottom can be controlled as per the requirement. Due to optimized diameter of primary and secondary holes the combustion process is faster and more efficient; leading to lesser pollutants i.e. the CO/CO₂ ratio is less than (0.04) the limit described in the testing standard (BIS, 2013) as compared to the majority of the existing cookstove models.

Classifications:

International (IPC 8-9): F23L15/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN01113DE2014 A	20151030	IN2014DE01113	20140423

Priority:

IN2014DE01113 20140423

Probable Assignee: SUDHIR KUMAR TYAGI

Assignee(s): SUDHIR KUMAR TYAGI

Inventor(s): PAL KUNWAR ; PANDEY ADARSH KUMAR ; SUDHIR KUMAR TYAGI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
IN01113DE2014 A	20151030	LSPB	+	published / reissued	

Title: REMOVABLE ASSEMBLY STONE BED HEAT WITH FIREPLACE

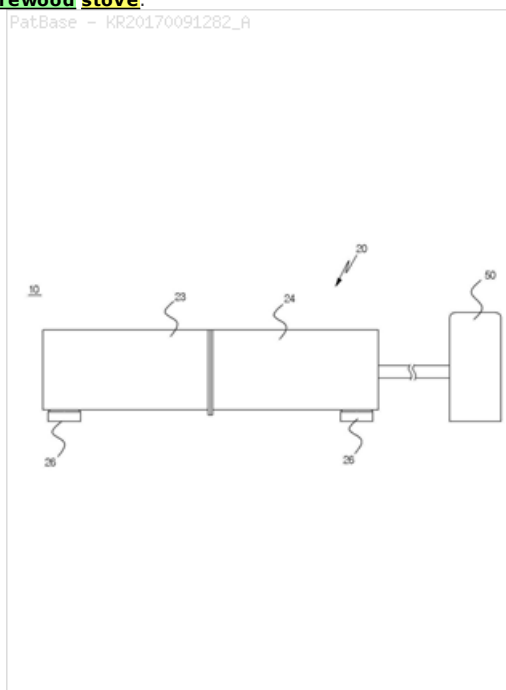
Abstract: The present invention relates to a movable assembly stone bed using a **firewood stove**. Specifically, the movable assembly stone bed comprises: a housing main body having an installation space inside and an open upper surface, wherein the housing main body has an inlet and an outlet on one side; an **insulation** panel having multiple coupling grooves on the upper surface installed on the bottom of the installation space; an **insulation** pipe unit comprising an **insulation** pipe installed in the upper part of the **insulation** panel, an inflow unit installed to penetrate the inlet and connected to the **insulation** pipe, and an outflow unit connected to the **insulation** pipe and installed to penetrate the outlet; the **firewood stove** installed in the inflow unit; a bleed-out fan installed in the outflow unit; an **insulation** block unit comprising a protection block having an insertion groove in order for the **insulation** pipe to be inserted therein, wherein the lower part of the protection block is inserted into the coupling groove, and also comprising a filling block inserted into the coupling groove; and a finishing **insulation** panel installed in the upper part of the **insulation** block unit. The movable assembly stone bed heats an indoor space by using heat of the **firewood stove** and emits the heat by receiving the heat generated in the **firewood stove**. The stone bed is formed in an assembly type so that all normal persons can easily assemble the stone bed. So, the stone bed can effectively use the heat of the **firewood stove** and can facilitate installation and transportation of the **firewood stove**.

Classifications:

International (IPC 8-9): A47C21/04 A47C27/00 F24B1/02 F24D19/06 F24D5/10 (Advanced/Invention)

CPC: A47C21/048 A47C27/00 F24B1/02 F24D19/062 F24D5/10 F24D2220/2081

PatBase - KR20170091282_A

**Family:**

Publication number	Publication date	Application number	Application date
KR101777647 B1	20170926	KR20160012085	20160201
KR20170091282 A	20170809	KR20160012085	20160201

Priority:

KR20160012085 20160201

Probable Assignee:

KIM TAE KYUNG

Assignee(s): (std):

KIM TAE KYUNG

Inventor(s): (std):

KIM TAE KYUNG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR101777647 B1	20170926	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101777647 B1	20360201	PEXP		Calculated Patent Term Expiry	
KR20170091282 A	20170809	LSPB	+	published / reissued	
KR20170091282 A	20160201	LSSES	A201	REQUEST FOR EXAMINATION	
KR20170091282 A	20170422	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20170091282 A	20170906	LSGT	+GRNT	WRITTEN DECISION TO GRANT	

Title: Energy-saving range

Abstract: The utility model discloses an energy-saving **stove**, which comprises a **stove** body; a **stove** hearth with an opening upper end and other sealed surfaces is arranged in the **stove** body, an iron pan is installed at the opening position of the **stove** hearth, the **stove** hearth is connected with a chimney through an air flue, and a **stove** door is also arranged on the **stove** body. The utility model is characterized in that an air inlet opening is arranged at the lower part of the **stove** door, the air inlet opening is communicated with the **stove** hearth, an air flue switch is arranged on the air flue, and two adjacent **stove** hearths on the **stove** body are communicated through the air flue. The energy-saving **stove** of the utility model can realize the two pans on one fire, the burning rate is high, the fire power is strong, the burning is complete, the **insulating** property is good, the heat efficiency is high, and the utility model can replace the prior **firewood stove**.

Classifications:

International (IPC 8-9): F24B1/02 (Advanced/Invention);
F24B1/00 (Core/Invention)

International (IPC 1-7): F24B1/02

Family:

Publication number	Publication date	Application number	Application date
 CN2554494 Y	20030604	CN20022023950U	20020426

Priority:

CN20022023950U 20020426

Probable Assignee: RURAL WORK LEADING GROUP OFFIC

Assignee(s): (std): RURAL WORK LEADING GROUP OFFIC

Assignee(s): RURAL WORK LEADING GROUP OFFICE ZHIJIANG THE DONG ; RURAL WORK LEADING GROUP OFFICE ZHIJIANG THE DONG NATIONDLITY AUTONOMOUS COIUNTY

Inventor(s): (std): LONG TAIJIN ; ZHOU FULIANG

Inventor(s): FULIANG ZHOU ; TAIJIN LONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2554494 Y	20030604	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2554494 Y	20030604	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2554494 Y	20050629	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2554494 Y	20120426	PEXP		Calculated Patent Term Expiry	

Title: High efficiency combustion heater

Abstract: A furnace or furnace-and-pot heating system comprises an inner shell, an outer shell surrounding the inner shell to form a duct between the two shells for preheating combustion air flowing down the duct to enter a combustion chamber within the inner shell. A container or pot for heating material such as water or foodstuffs may be supported inside the inner shell and above a combustion zone, such pot to be of diameter to form with the inner shell an annular flue for escape of combustion products. Draft control means are provided to regulate the amount of combustion air entering the combustion chamber.

Classifications:

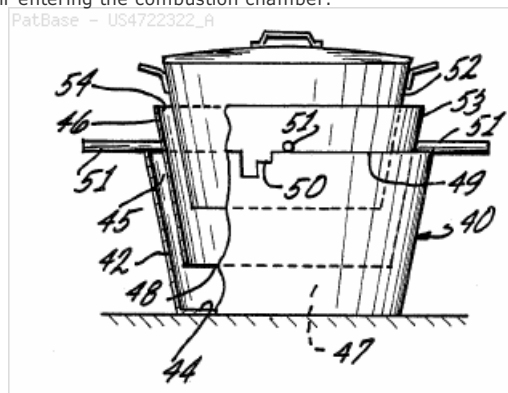
International (IPC 8-9): F24C1/16 (Advanced/Invention);
F24C1/00 (Core/Invention)

International (IPC 1-7): A47G23/04

CPC: F24C1/16

European: F24C1/16

US: 126/15R 126/261 126/262 126/9R



Family:

Publication number	Publication date	Application number	Application date
US4722322 A	19880202	US19870057711	19870601

Priority:

US19860841940 19860320 US19870057711 19870601

Probable Assignee: VARNEY FREDERICK M

Assignee(s): (std): VARNEY FREDERICK M ; VARNEY J ARNOLD

Inventor(s): (std): VARNEY FREDERICK M ; VARNEY J ARNOLD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4722322 A	19880202	LSGT	+	granted / extensions (spc, cpc, pte)	
US4722322 A	19871203	LSGT	PAT1	Patented Case	
US4722322 A	19910729	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4722322 A	19960116	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US4722322 A	20000130	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4722322 A	20000411	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20000202
US4722322 A	20180130	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4722322 A	20180130	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

Title: Multifunctional drawer-type high pressure steam case

Abstract: The **cooking** cabinet made of aluminium alloy or stainless steel plate and tube material possesses three types of large size, medium size and small size, in which the large size and medium size cookingcabinats are made into the form of **cooking** cabinet with sandwich heat **insulating** wall, and its small size **cooking** cabinet is made into the form of single-layer wall **cooking** cabinet, and their trays are made into the trapezoidal drawer mode, and divided into two kinds of having holes and having no holes for simultaneously steaming solid and fluid food. Its large and medium size **cooking** cabinets have more than two steaming chambers respectively, and under the steaming chamber these is a steam valve. Said invented **cooking** cabinet not only can steam **cooked** food and steam food box, but also can beused for disinfection, and can use several energy sources of coal, **firewood**, electric energy and gas energy, etc.

Classifications:

International (IPC 8-9): F24B1/20 (Advanced/Invention);

F24B1/00 (Core/Invention)

International (IPC 1-7): F24B1/20

Family:

Publication number	Publication date	Application number	Application date
 CN1325000 A	20011205	CN20001034781	20001130

Priority:

CN20001034781 20001130

Probable Assignee: LIU ZHICHENG

Assignee(s): (std): LIU ZHICHENG

Inventor(s): (std): LIU ZHICHENG ; ZHICHENG LIU

Legal status (INPADOC)

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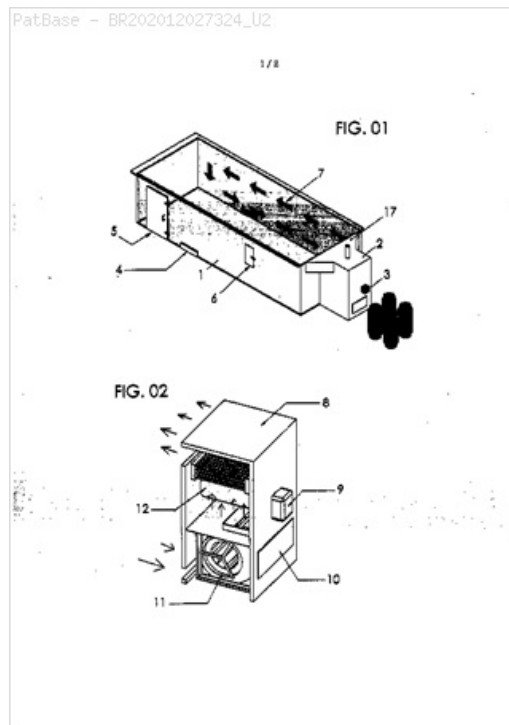
Patent	Date recorded	Event group	Code	Event	Details
CN1325000 A	20011205	LSPB	+	published / reissued	
CN1325000 A	20011205	LSPB	+C06	PUBLICATION	
CN1325000 A	20060503	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	

Title: AQUECEDOR/SECADOR DE CHAMA INDIRETA A GLP, GAS NATURAL OU OLEO DIESEL COM SISTEMA DE FLUXO DE AR INSUFLADO HEATER / DRYER INDIRECT A FLAME LPG, NATURAL GAS OR DIESEL OIL SYSTEM WITH AIR FLOW inflated (Machine translation)

Abstract: Source: BR202012027324U [PT] 1 RESUMO AQUECEDOR/SECADOR DE CHAMA INDIRETA A GLP, GAS NATURAL OU OLEO DIESEL COM SISTEMA DE FLUXO DE AR INSUFLADO, composto por sala de aquecimento (estufa) totalmente isolada termicamente (1), 5 dotada de dampers (4) dispostos na parte inferior para expulsao da umidade, portas de entrada laterais (5) e dependendo do projeto, portas frontais e visores (6) em sua extensao; contendo casa de maquinas (2) contigua a estufa (1) e que sustenta o trocador de calor (12), ventilador axial ou centrifugo (11), queimador de gas ou oleo (3) e as entradas e saidas do ar quente e frio; onde o fluxo convectivo 10 e variavel (7), podendo ser ascendente ou descendente, esse ultimo fornecendo maior economia de energia. **Machine translation:** 1 SUMMARY HEATER / FLAME DRYER INDIRECT The LPG, NATURAL GAS OR OIL DIESEL WITH AIR inflated FLOW SYSTEM, consisting of boiler room (oven) fully **insulated** (1), 5 equipped with dampers (4) arranged at the bottom for expulsion of moisture, side entrance doors (5) and depending on the design, front doors and displays (6) in their extension; containing machine-house (2) adjoining the oven (1) and holding the heat exchanger (12), axial or centrifugal fan (11), gas burner or oil (3) and the entrance and exits of hot and cold air; where the convective flow and variable 10 (7) and may be rising or falling, the latter providing greater energy savings.

Classifications:

International (IPC 8-9): A24B3/04 F26B9/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
BR202012027324 U2	20140916	BR20122027324U	20121025

Priority:

BR20122027324U 20121025

Probable Assignee:

Assignee(s): (std): MARTINS BRAINER RODRIGUES
Assignee(s): BRAINER RODRIGUES MARTINS
Inventor(s): (std): MARTINS BRAINER RODRIGUES
Inventor(s): BRAINER RODRIGUES MARTINS

Legal status (INPADOC)

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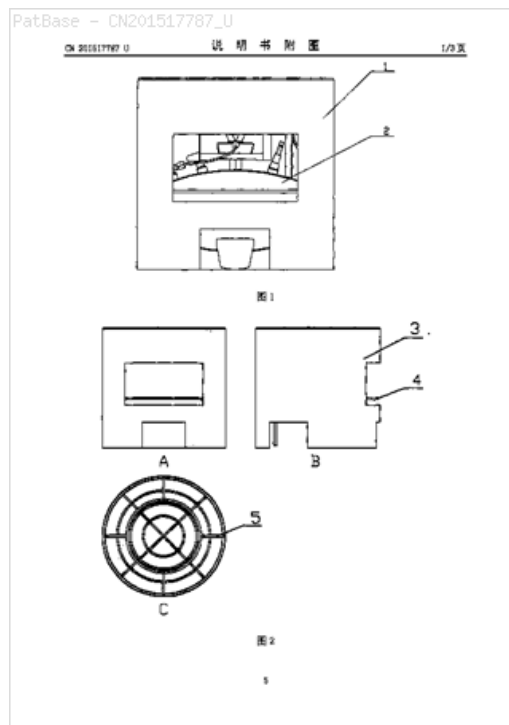
Patent	Date recorded	Event group	Code	Event	Details
BR202012027324 U2	20140916	LSPB	B03A	PUBLICATION OF AN APPLICATION: PUBLICATION OF A PATENT APPLICATION OR OF A CERTIFICATE OF ADDITION OF INVENTION	
BR202012027324 U2	20170829	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	
BR202012027324 U2	20171219	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	

Title: Multi-fuel military combined **stove**

Abstract: The utility model discloses a multi-fuel military combined **stove** suitable for wilderness survival, particular a military combined **stove** used under various environment conditions of field fight military equipment, and exploration and disaster emergency rescue places. The **stove** includes a gasification burner and an outer cover. The outer cover comprises a cover disc, an inner net and a side cylinder, not only plays the functions of protecting the gasification burner, **insulating** heat energy, and ensuring the safety of personnel and equipment after retraction, but also can be used as a **stove** independently. A pot to be heated is placed on the cover disc, **firewood**, crop straws and solid fuel are taken as the fuel and placed on the inner net through a fuel placing port of the side cylinder, the fire is accelerated under the action of the airflow field formed by an air inlet of the side cylinder and the cover disc at the upper part, and the pot can be heated.

Classifications:

International (IPC 8-9): F24C1/16 F24C15/12 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
 CN201517787 U	20100630	CN200920220338U	20091028

Priority:

CN200920220338U 20091028

Probable Assignee:

HAIYING LIU

Assignee(s): (std):

HAIYING LIU ; LAN MA

Assignee(s):

LIU HAIYING ; MA LAN

Inventor(s): (std):

HAIYING LIU ; LAN MA

Inventor(s):

LIU HAIYING ; MA LAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201517787 U	20100630	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201517787 U	20100630	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201517787 U	20171215	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN201517787 U	20191028	PEXP		Calculated Patent Term Expiry	

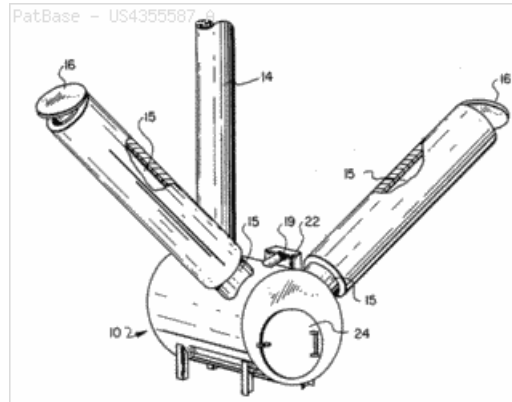
Title: SELF-FEEDING WOOD BURNING HEATING UNIT

Abstract: A wood burning heating unit capable of being stoked for continuous or extended burning, and of achieving effective combustion of volatiles contained in the smoke is provided. The **stove** body, a generally cylindrical casing, is supported so that its axis is substantially horizontal. A baffle divides the casing into a fire box or combustion chamber and an exhaust chamber which functions as a heat exchanger. The exhaust chamber is vented to the outside atmosphere by an exhaust conduit or flue pipe. A pair of elongate, fuel feed conduits extend downwardly and inwardly into the fire box or combustion chamber, so that respective, generally upstanding columns of logs can be formed in the fuel feeding conduits with the lower ends of the wood log columns contacting each other to define and limit the area of combustion in the fire box. Manifold means is provided for drawing combustion air from outside the **stove** body, passing the air through a heat exchange area in the manifold adjacent to the combustion zone for preheating the combustion air, and then supplying the heated air into proximity of the contact between the two columns of logs.

Classifications:**International (IPC 8-9):** F23G7/10 F23L15/00

F24B13/04 (Advanced/Invention);

F23G7/00 F23L15/00 F24B13/00 (Core/Invention)

International (IPC 1-7): F23K3/00**CPC:** F24B13/04 F23G7/105 F23L15/00 Y02E20/348**European:** F23G7/10A F23L15/00 F24B13/04**US:** 110/293 126/73**Family:**

Publication number	Publication date	Application number	Application date
US4355587 A	19821026	US19790087826	19791025

Priority:

US19790087826 19791025

Probable Assignee:

LEMON WILFRED T

Assignee(s): (std):

LEMON WILFRED T

Inventor(s): (std):

LEMON WILFRED T

Legal status (INPADOC)[View legal status timeline](#)

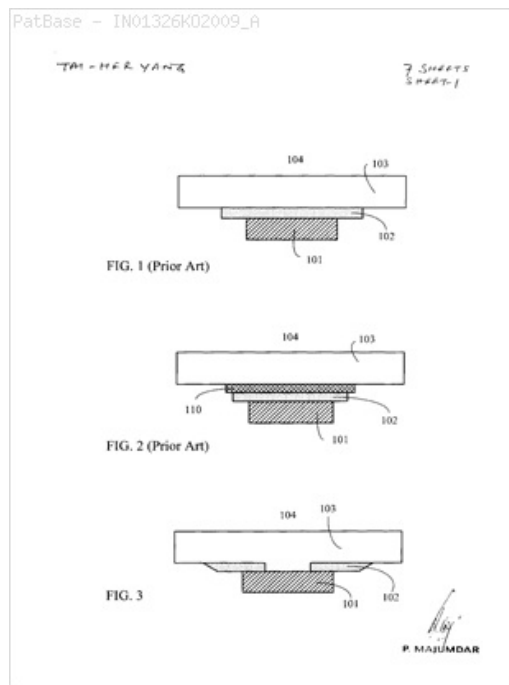
Patent	Date recorded	Event group	Code	Event	Details
US4355587 A	19821026	LSGT	+	granted / extensions (spc, cpc, pte)	
US4355587 A	19821026	LSGT	PAT1	Patented Case	
US4355587 A	19821026	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE

Title: THERMAL CONDUCTION PRINCIPLE AND DEVICE FOR INTERCROSSED STRUCTURE HAVING DIFFERENT THERMAL CHARACTERISTICS

Abstract: The present invention relates to relay thermal conductor made of material having better thermal conductivity coefficient, wherein which is thermal conductively coupled with heating or cooling first thermal body at one end or face thereof, and is coupled with interface thermal conductor having higher specific heat capacity at the other end or face thereof; the relay thermal conductor directly performs thermal conduction with second thermal body at another part thereof; and the interface thermal conductor having higher specific heat capacity is the thermal conducting carrier between the relay thermal conductor and the second thermal body.

Classifications:

International (IPC 8-9): H01L33/50 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
IN01326KO2009 A	20121019	IN2009KO01326	20091110

Probable Assignee: TAI HER YANG

Assignee(s): TAI HER YANG

Inventor(s): TAI HER YANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
IN01326KO2009 A	20121019	LSPB	+	published / reissued	

Title: GARRI PREPARATION

Abstract: 1468955 **Cooking** apparatus EAST CENTRAL STATE PROJECTS DEVELOPMENT AGENCY 23 May 1974 23026/74 Heading A4D [Also in Division B1] A machine 10 for use in the conversion of cassava pulp into garri comprises an elongate trough 12, a rotatable shaft 32 carrying blades 36 around its circumference and along its length, at least those blades towards an inlet 40 of the trough having holes (66) and at least those blades towards an outlet 38 of the trough being L-shaped when viewed in sections transverse to the shaft axis and thereby including flanges (68). The blades stir the trough contents and encourage it away from the inlet, where a predominance of cassava pulp flows through the said holes, towards an outlet, where a predominance of garri is carried around the rotating shaft by the flanges. Metal horizontal trough 12 is heated at its underside and has a sectional, vented cover. An electric motor 34 rotates shaft 32 on which the blades are arranged in a discontinuous helix overlapping each other in the shaft's axial direction and making an acute angle with the axis. If the trough is inclined the said angle may be zero. The angle is pre-set and the blade is sprung radially outwardly to scrape the trough. The areas of the holes decrease towards the outlet, the last blade having no holes at all. Flanges (68) cause, turbulence, aeration and cooling of the cassava pulp and throw it to one side of the trough, more pulp being thrown nearer the outlet because the flanges are wider, transversely to the shaft axis, on the blades towards the outlet. The cassava is thus gelatinized and dehydrated until dry garri is produced.

Classifications:

International (IPC 8-9): A23L1/214 A23L19/10 A47J27/14 B01F15/06 C10J3/02 C10J3/84 (Advanced/Invention);

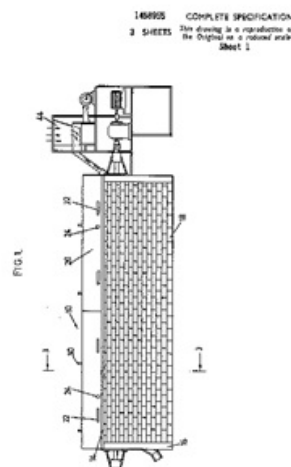
A23L1/214 A47J27/14 B01F15/00 C10J3/00 C10J3/02 (Core/Invention)

International (IPC 1-7): A47J27/66 B01F7/04

CPC: B01F15/065 C10J3/02 C10J3/30 C10J3/36 C10J3/723 C10J3/74 C10J3/76 C10J3/84 C10J2300/092 C10J2300/093 C10J2300/0956 C10J2300/0976 A47J27/14 A23L19/11

European: A23L1/214D A47J27/14 B01F15/06D C10J3/02 C10J3/84

PatBase - GB1468955_A



Family:

Publication number	Publication date	Application number	Application date
GB1468955 A	19770330	GB19740023026	19740523
GB1603605 A	19811125	GB19780025623	19780531

Priority:

GB19740023026 19740523 GB19780025623 19780531

Probable Assignee: EAST CENTRAL STATE PROJECTS DE

Assignee(s): (std): EAST CENTRAL STATE PROJECTS DE

Assignee(s): EAST CENTRAL STATE PROJECTS DEV AGENCY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB1468955 A	19770330	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1468955 A	19770810	LSGT	+PS	PATENT SEALED	
GB1468955 A	19850123	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	
GB1468955 A	19940523	PEXP		Calculated Patent Term Expiry	
GB1603605 A	19811125	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1603605 A	19820217	LSGT	+PS	PATENT SEALED	
GB1603605 A	19850123	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	
GB1603605 A	19980531	PEXP		Calculated Patent Term Expiry	

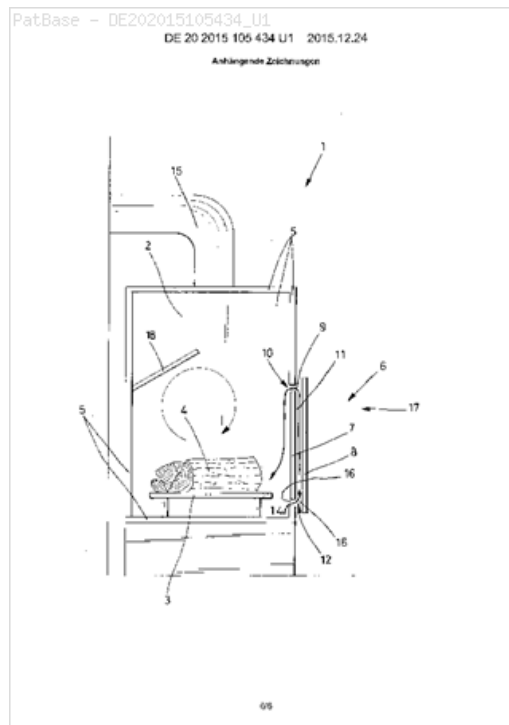
Title: OFEN MIT SCHEIBENLUEFTUNG OVEN WITH SCHEIBENLUEFTUNG (Machine translation)

Abstract: Source: DE202015105434U1 [DE] Ofen (1), mit einem Brennraum (2), der von Ofenwänden (5) umgeben ist wobei im Brennraum (2) ein Glutbett (3) vorgesehen ist und in einer Ofenwand (5) ein Fenster (17) vorgesehen ist, welches eine Glasscheibe (7) aufweist, und mit einer Luftfuehrung, welche eine Zuluftöffnung (10) aufweist, durch welche Luft in den Brennraum (2) und zu dem Glutbett (3) gelangt, dadurch gekennzeichnet, dass zwei Glasscheiben (7, 8) im Abstand zueinander als Doppelverglasung angeordnet sind, und dass eine Eintrittsoffnung (16) fuer Frischluft zwischen den beiden Glasscheiben (7, 8) vorgesehen ist und die Luftfuehrung in der Art ausgestaltet ist, dass die Zuluft durch die Eintrittsoffnung (16) in den Zwischenraum (11) zwischen den beiden Glasscheiben (7, 8) und von dort zu der Zuluftöffnung (10) stroemt. **Machine translation:** Furnace (1), with a combustion chamber (2), which is surrounded by Ofenwänden (5) where an ember bed (3) is provided in the combustion chamber (2) and in a furnace wall (5) a window (17) is provided having a glass disc (7), and with a LUFTFUEHRUNG which has a supply air opening (10) through which air in the combustion chamber (2) and arrives at the fuel bed (3), characterized in that two glass panes (7, 8) are mutually spaced apart as a double glazing, and in that a Eintrittsoffnung (16) for fresh air between the two glass panes (7, 8) is provided and the LUFTFUEHRUNG is configured in such a way that the supply air through the Eintrittsoffnung (16) in the intermediate space (11) between the two glass panes (7, 8) and from there to the air intake (10) flows.

Classifications:

International (IPC 8-9): F23L9/06 F24B1/185 F24B13/00 F24B5/02 (Advanced/Invention)

CPC: F24B1/185 F24B1/192 F24B5/02



Family:

Publication number	Publication date	Application number	Application date
DE202015105434 U1	20151224	DE201520105434U	20151014

Priority:

DE201520105434U 20151014

Probable Assignee:

BRUNS GMBH GEB

Assignee(s): (std):

BRUNS GMBH GEB

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE202015105434 U1	20151224	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202015105434 U1	20151224	LSGT	R207	UTILITY MODEL SPECIFICATION	
DE202015105434 U1	20190501	LSLE	-R156	LAPSE OF IP RIGHT AFTER 3 YEARS	
DE202015105434 U1	20251014	PEXP		Calculated Patent Term Expiry	

Title: COMBUSTION OF ORGANIC MATERIALS TO GENERATE HEAT - WITH CIRCULATION OF HYDROCARBONS FORMED THROUGH THE COMBUSTION ZONE

Abstract: The combustion of materials which produce gases contg. condensable hydrocarbons, occurs in a deseeding direction with enforced of the hydrocarbons through the combustion zone. The process pref. burns waste organic matter from agriculture and industry, e.g. vegetable refuse, sawdust, straw, etc. Formation of tarry deposits, e.g. on heat exchangers used to extract the heat from the combustion gas, is prevented or reduced, together with atmospheric pollution. A vertical combustion unit is used, which is fed from above with the organic matter, and (partly) supplied with air through the walls. The hot combustion gases from the base pass upwards through an outer jacket contg. a heat exchanger to extract heat.

Classifications:

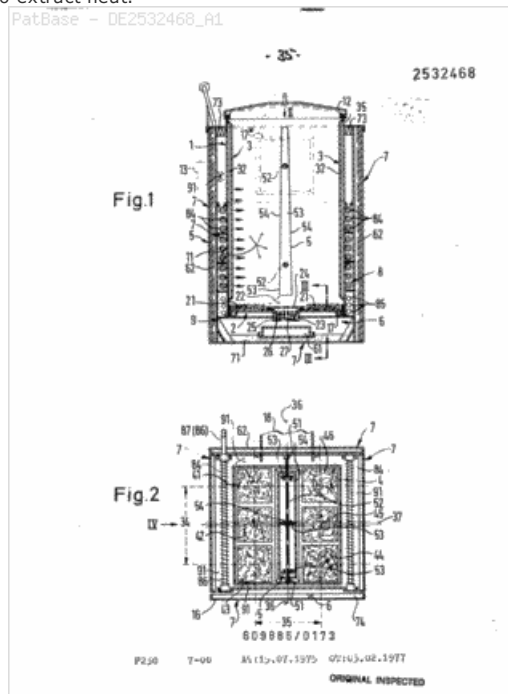
International (IPC 8-9): F23G7/10 (Advanced/Invention);

F23G7/00 (Core/Invention)

International (IPC 1-7): F23G7/00

CPC: F23G7/10

European: F23G7/10



Family:

Publication number	Publication date	Application number	Application date
DE2532468 A1	19770203	DE19752532468	19750719

Priority:

DE19752532468 19750719

Probable Assignee: PATRA PATENT TREUHAND ANSTALT

Assignee(s): (std): PATENT TREUHAND GES F ELEKTRISCHE GLUEHLAMPEN MBH ; PATRA PATENT TREUHAND ; PATRA PATENT TREUHAND ANSTALT

Legal status (INPADOC)

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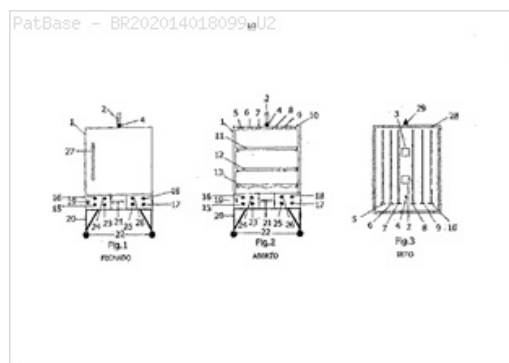
Patent	Date recorded	Event group	Code	Event	Details
DE2532468 A1	19770203	LSPB	+	published / reissued	
DE2532468 A1	19780824	LSAS	OGA	NEW PERSON/NAME/ADDRESS OF THE APPLICANT	
DE2532468 A1	19821007	LSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE2532468 A1	19850328	LSWD	-8130	WITHDRAWAL	

Title: CAMARA DE FUMEIRO VARAL DE ALIMENTOS CHAMBER OF FLUE FOOD clothesline (Machine translation)

Abstract: Source: BR202014018099U [PT] RESUMO. "CAMARA DE FUMEIRO VARAL DE AUMENTOS". A presente invencao refere-se a uma camara (1) utilizada na defumacao de produtos alimenticios provida de aspecto geometrico retangular disposta no plano horizontal com profundidade linear, composta de isolamento (28) termico, de um rack (20) montado sobre rodizios (22), provida de uma porta (27) com as mesmas dimensoes dessa camara (1), um termometro (4) e duplo duto (2) e (3) acoplados sobre o teto que utiliza fumeiro varais (5, 6, 7, 8, 9 e 10) mas gavetas (5, 6, 7, 8, 9 e 10) previstas no teto da camara (1) para promover o processo de defumacao dos alimentos a serem processados com fonte de calor de radiacao infravermelha a gas de GLP nos queimadores (15, 16, 17 e 18). sendo que no piso dessa camara (1) se encontra um aparador (13) de tres calhas para a protecao de liquidos e residuos e que separa os mesmos para o coletor (14) primario que os transferem para fora da dita camara (1) O aquecimento da caixa (21) de defumacao acontece atraves dos queimadores (23, 24, 25 e 26) que por sua vez sao acesos atraves da chave (19) de ignicao eletrica, interligando todos os ditos queimadores a caixa (21) que possui, tambem, orificios laterais que permitem a passagem do calor para provocar a queima, por conseguinte, do combustivel gerador de fumaca. Esse equipamento possui um registro (29) geral de entrada de gas GLP para referida camara (1). **Machine translation:** ABSTRACT. "CHAMBER OF FLUE clothesline INCREASES." The present invention relates to a camera (1) used in the smoking of food products provided disposed rectangular geometric point in the horizontal plane linear depth, comprising **insulation** (28) rails, a rack (20) mounted on casters (22) provided with a door (27) with the same dimensions of the chamber (1), a thermometer (4) and double duct (2) and (3) coupled to the roof using staves flue (5, 6, 7, 8, 9 and 10), but drawers (5, 6, 7, 8, 9 and 10) provided in the ceiling of the chamber (1) to promote the smoking process the food being processed with infrared heat source LPG gas burners (15, 16, 17 and 18). and in the floor of this chamber (1) is a sideboard (13) of three rails for the protection of liquids and waste and separating them to the collector (14) primary transferring them out of the said chamber (1) O heating box (21) of smoking takes place through the burners (23, 24, 25 and 26) which in turn are lit by through the key (19) of electric ignition, connecting all said burner box (21) has, also, lateral orifices which allow the passage of heat to cause the firing, therefore the fuel smoke generator. This equipment has a record (29) General LPG gas inlet to said chamber (1).

Classifications:

International (IPC 8-9): A23B4/044 A47G33/00
A47J37/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
BR202014018099 U2	20160531	BR20142018099U	20140723

Priority:

BR20142018099U 20140723

Probable Assignee:

LUIS CARLOS BARBOSA DA CRUZ

Assignee(s): (std):

LUIS CARLOS BARBOSA DA CRUZ

Inventor(s): (std):

CRUZ LUIS CARLOS BARBOSA DAQ

Inventor(s):

LUIS CARLOS BARBOSA DAQ CRUZ

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BR202014018099 U2	20160531	LSPB	B03A	PUBLICATION OF AN APPLICATION: PUBLICATION OF A PATENT APPLICATION OR OF A CERTIFICATE OF ADDITION OF INVENTION	

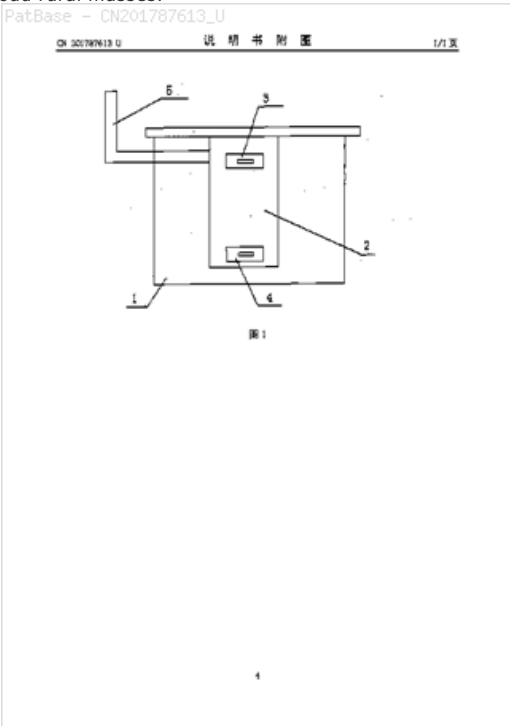
Title: FIREWOOD- SAVING FURNACE WITH EXHAUST PIPE

Abstract: The utility model discloses a firewood-saving furnace with an exhaust pipe, which comprises a furnace body. A combustion chamber is arranged inside the furnace body, a fuel inlet is formed on the wall of the furnace body at the upper end of the combustion chamber, and an air inlet slag hole is formed on the wall of the furnace body at the lower end of the combustion chamber; the exhaust pipe is also mounted on the other side at the upper end of the furnace body and is connected with the combustion chamber; the furnace body is made of heat insulating material, and the outer wall of the furnace body is made of a steel plate through welding; and the exhaust pipe is made of the heat insulating material. By the adoption of the structural mode that double combustion chambers are arranged in the furnace body and the exhaust pipe is additionally arranged on the side of the combustion chamber, the firewood-saving furnace provided by the utility model can effectively save fuel and heat water while cooking, has the advantages of energy conservation, high efficiency, safety and reliability and long service life, and is convenient for use, thereby being very suitable for application to broad rural masses.

Classifications:

International (IPC 8-9): F24B1/189 F24B1/191 (Advanced/Invention)

CPC: Y02B40/163



Family:

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Probable Assignee: ANHUI CHIZHOU JILI ENVIRONMENTAL BOILER MFG FACTORY

Assignee(s): (std): ANHUI CHIZHOU JILI ENVIRONMENTAL BOILER MFG FACTORY

Assignee(s): ANHUI CHIZHOU JILI ENVIRONMENTAL BOILER MANUFACTURING FACTORY

Inventor(s): (std): PINGLONG YAO

Inventor(s): YAO PINGLONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201787613 U	20110406	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201787613 U	20110406	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201787613 U	20121010	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201787613 U	20200811	PEXP		Calculated Patent Term Expiry	