

Record 1/10 US9464811B2 Wood fueled camping stove

Title: Wood fueled camping stove

Assignee/Applicant: Coffman Jeffrey Lee, Belington, WV, US

Publication Number:  [US9464811B2](#)

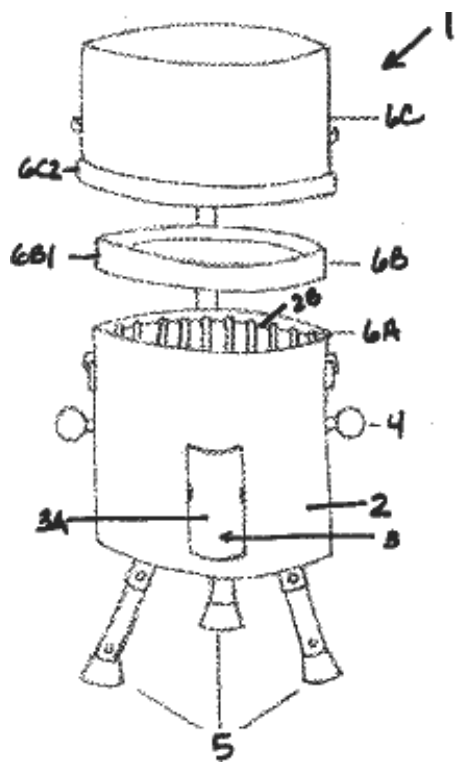
Publication Date: 2016-10-11

Priority Number: US2013956754P | US2013956754P | US14307376A

Abstract (English):

A wood fueled camping stove generally including (a) a stove chamber having an aperture, a tubular heat riser and a burn chamber, wherein the burn chamber extends perpendicularly from the heat riser; (b) a fuel feed drawer received in the aperture of the stove chamber, the fuel feed drawer having a forward portion and a drawer portion, wherein the drawer portion is sized and shaped to be received in and supported by the burn chamber; (c) telescopic legs extending from said stove chamber, adjustable by means of snap buttons and corresponding apertures; (d) a standoff grate, positioned on an interior ledge of said stove chamber; (e) a skillet having a short, hollow tube affixed to the side thereof, with corresponding apertures to receive the handle in a plurality of positions; (f) a pot having a short, hollow tube affixed to the side thereof, with corresponding apertures to receive the handle in a plurality of positions; (g) a tube affixed to the exterior of the stove chamber; and (h) a handle received in and removable from said tube; wherein the stove chamber, the skillet and the pot are sized and configured to form a unified unit for storage.

Front Page Drawing:



Title: Vaporizing burner

Assignee/Applicant:

Publication Number: **US20010044088A1**

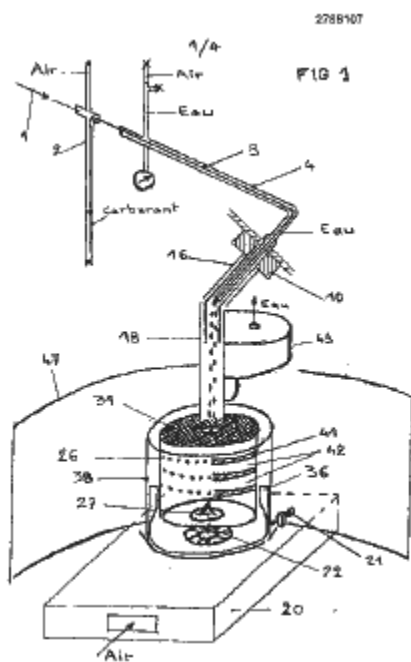
Publication Date: 2001-11-22

Priority Number: FR199816790A | WO1999FR3194A | FR199816790A

Abstract (English):

A closed furnace vaporizing burner and a feed therefor suitable for adapting to a closed fireplace, transforming it into a liquid fuel fireplace. The invention comprises two distinct portions: The fuel feed comprising the inlet 1, an air-liquid separator 2, an injector tube 3 terminated by two downwardly bent small-diameter tubes 30, a cooling tube 4, a holding and protection tube 13, two protective tubes 16 and 18 or a heat-recovery cooler 39, and a support 10. The combustion assembly comprises an air feed and hearth support box 20, a fan 22, a combustion pot 26, a receptacle 27, horizontal disks of grid, or expanded metal, or perforated sheet metal 31, radial fins 36, a transparent ceramic glass tube 38, a reflecting screen 47, and in a variant, air injection rings 41 and transparent ceramic glass tubes 42.

Front Page Drawing:



Title: | Indoor installation type rocket stove (*Translation from Clarivate Analytics*)

Assignee/Applicant: KAWAMURA O,JP

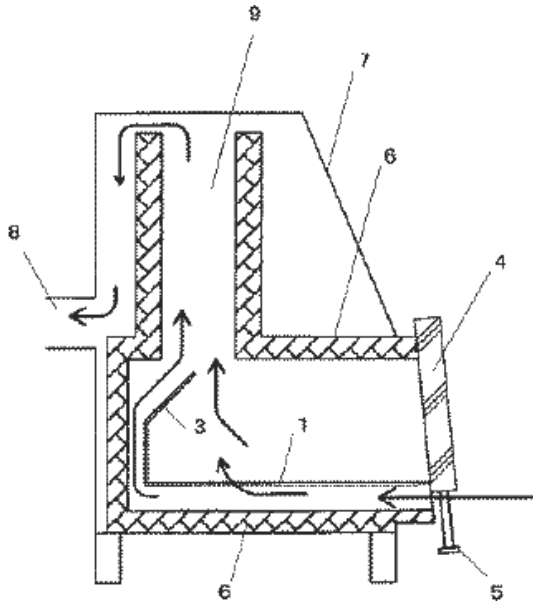
Publication Number:  **JP05834346B2**

Publication Date: 2015-12-16

Priority Number: JP2012288846A | JP2012288846A

Abstract (English):

Front Page Drawing:



Record 4/10 CN203518503U High-efficiency firewood drying device | Efficient firewood drying device

Title: High-efficiency firewood drying device | Efficient firewood drying device (*Translation from Clarivate Analytics*)

Assignee/Applicant: Jishou University, Jishou, Hunan, 416000, CN

Publication Number:  **CN203518503U**

Publication Date: 2014-04-02

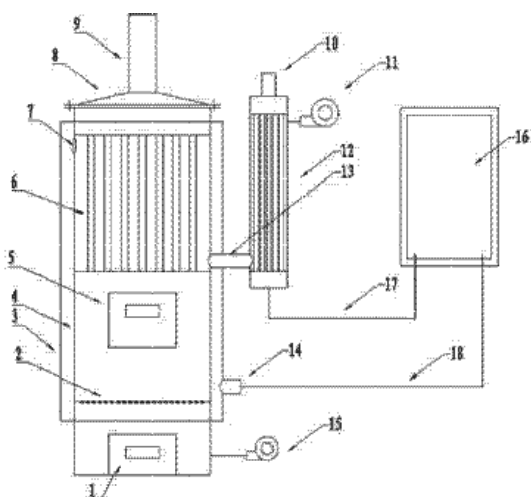
Priority Number: CN201320490826U | CN201320490826U

Abstract (English):

The utility model claims a high efficient firewood drying device, comprising a lower stove door, a grate, an outer cylinder, an inner cylinder, upper door, tube, in outlet, a smoke hood, a smoke discharging pipe, a tail gas outlet, a blower, a heat exchanger, a connection pipe, a hot air outlet. combustion blower drying room, drying chamber, exhaust pipe and air inlet pipe, wherein the door is located at the lower end of furnace bridge, upper terminal of the furnace bridge is provided with upper door and tube, tube upper end is provided with a smoke cover and smoke pipe, inner cylinder and outer cylinder form a jacket and connected with the inner outlet and the hot air outlet. jacket heat exchanger and in the outer cylinder through connection pipe, the combustion fan is located at the lower end of the furnace bridge, the jacket of the drying fan is connected with the heat exchanger, drying by drying an exhaust pipe and the heat exchanger tube is connected with the hot air outlet through the room air inlet pipe, heat exchanger tube upper end is provided with a tail gas outlet. the high efficient firewood drying device has simple structure, clean and sanitary application, reliable operation, efficiency, and is especially suitable for the country.

(*Translation from Clarivate Analytics*)

Front Page Drawing:



Title: WOOD STOVE

Assignee/Applicant: SAITO OSAMU | TAKAGI SEIICHI

Publication Number:  **JP2012145324A**

Publication Date: 2012-08-02

Priority Number: JP2010294752A | JP2010294752A

Abstract (English):

PROBLEM TO BE SOLVED: To provide a measure for improvement to continuously burn in a wood stove for a long time, as the wood stove can be used as an auxiliary heat source as energy-saving measures which is urgent need, due to increase of costs of heavy oil used in an agricultural vinyl greenhouse.

SOLUTION: A cover 1-1 is mounted on a ceiling of a sealed cuboid to which wood fuel is charged, a door 1-2 is mounted on a side face, a combustion section 3 is disposed at a lower section, and a heat insulating section 5 surrounded by a heat insulating material is disposed above the combustion section 4, thus the wood fuel can be burned for a long time.

SUBJECT of the Invention

By raise of a heavy-fuel-oil price, the energy-saving countermeasure of an agricultural vinyl greenhouse is pressing need.

As this countermeasure, a wood stove is made into an auxiliary|assistant heat source, and can be utilized, however the remedy which a long-time continuous combustion is made is required for a wood stove.

PROBLEM to be solved

This invention attaches the lid|cover 1-1 to the ceiling of the closed|enclosed rectangular parallelepiped which inserts firewood, or attaches the door 1-2 to a side surface, provides the combustion part 3 in the lower part, provides the combustion part 5 enclosed with the heat insulating material to the upper part of the combustion part 4, and burns firewood for a long time.

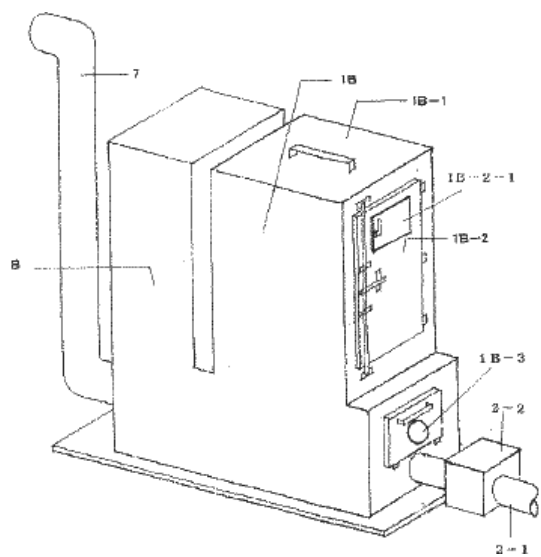
SELECTED DRAWINGS

FIG. 7

[MAT_IMAGE 000002]

(Translation from Clarivate Analytics)

Front Page Drawing:



Record 6/10 MX2015010990A WOOD AND OTHER BIOMASS STOVE. | ESTUFA DE LEÑA Y OTRAS BIOMASAS.

Title: WOOD AND OTHER BIOMASS STOVE. | ESTUFA DE LEÑA Y OTRAS BIOMASAS.

Assignee/Applicant: ALFREDO DELGADO DÁVILA,MX | NATHAN LORENZ,US

Publication Number:  [MX2015010990A](#)

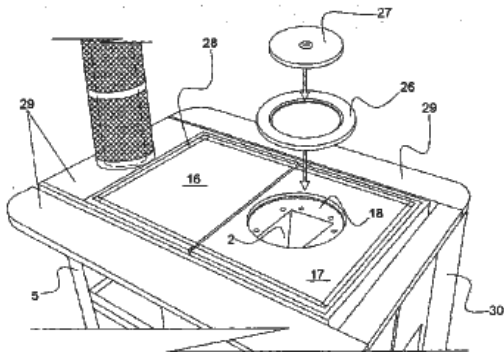
Publication Date: 2016-09-05

Priority Number: MX201510990A | MX201510990A

Abstract (English):

The present invention is related to the industry for manufacturing white goods and more particularly to stoves using wood or other biomass as a fuel. The invention is advantageous in that it provides a stove using wood and other biomass as a fuel, which is formed by a fuel chamber and a combustion chamber that is led to a hot gas channel, which is formed by a tray and a plate or upper griddles, so that these hot gases being flowed through the channel and heating the griddles and then being expelled by a stack almost extinct of heat.

Front Page Drawing:



Record 7/10 US4675029A Apparatus and method for treating the emission products of a wood burning stove

Title: Apparatus and method for treating the emission products of a wood burning stove

Assignee/Applicant: GeoEnergy International Corp., Tukwilla, WA, US

Publication Number:  **US4675029A**

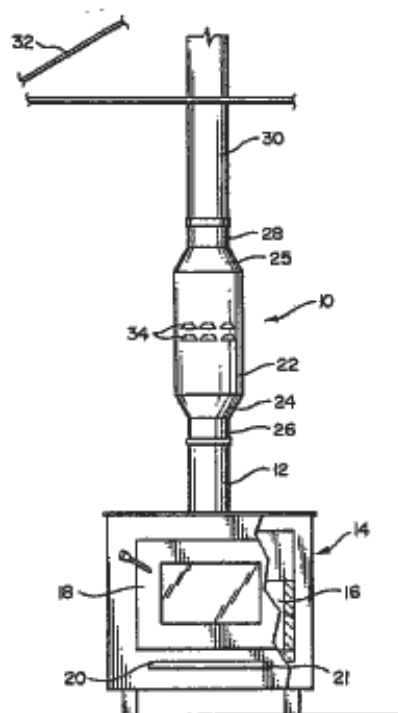
Publication Date: 1987-06-23

Priority Number: US1984674050A | US1984674050A

Abstract (English):

A pollutant removal/heat exchange apparatus is mounted to a wood burning stove to receive the emission products from the stove. The apparatus comprises a plurality of vertically aligned tubular electrodes which define vertical through passageways. Negatively charged disc-like electrodes are positioned within the tubular electrodes. Partially burned hydrocarbons and moisture in the emission products become negatively charged as they pass through the tubular electrodes to become deposited on the inner surfaces of the tubular electrodes. Ambient air is directed through the passageways between the tubular electrodes to extract heat from the emission products, with the heated air being discharged from the apparatus. The electrostatic precipitation of the material on the tubular electrodes not only removes undesired material from the emission products, but also enhances heat exchange with the ambient air passing through the apparatus.

Front Page Drawing:



Record 8/10 JP2014126356A HEATER WITH FIREWOOD AS ITS FUEL | The heater which uses firewood etc. as a fuel

Title: HEATER WITH FIREWOOD AS ITS FUEL | The heater which uses firewood etc. as a fuel

(Translation from Clarivate Analytics)

Assignee/Applicant: IZUMIKAWA SOGYO KK

Publication Number:  [JP2014126356A](#)

Publication Date: 2014-07-07

Priority Number: JP2012289487A | JP2012289487A

Abstract (English):

PROBLEM TO BE SOLVED: To eliminate some defects found in a heating stove with firewood as its fuel that it shows a poor combustion efficiency due to heat radiation from a wall surface enclosing a combustion chamber, produces soot or smoke and the like and at the same time a location that can be used as a heat source is limited to a place near the heating stove of a heater and further energy that can be utilized as a heating operation or heat source is limited to heat radiation from the combustion chamber and a vertical flue, i.e. radiation heat, convective heat.

SOLUTION: A rocket stove is constituted such that there are provided a plurality of air chambers defined in a height direction along an outer wall of an outer vertical flue, each of the air chambers is communicated to each other through fine holes, a lower air chamber is formed with an air flowing-in port and an upper air chamber is formed with an air discharging port. In addition, a water pipe is wound around an inner wall of the outer vertical flue in a coil-like manner and at the same time a water supplying port is arranged below it and a hot water discharging port is arranged above it. Further, a horizontal flue is extended into a greenhouse and connected to a vertical flue outside the greenhouse.

SUBJECT of the Invention

By the stove for heating which used firewood as the fuel, in order to thermally radiate heat from the wall surface surrounding a combustion chamber, while a combustion efficiency is bad and generate|occur|produces soot, smoke, etc., the site|part which can be utilized as a heat source is restricted to the vicinity of a heater.

Furthermore, that it can utilize as heating or a heat source has a subject which is restricted to the thermal radiation from a combustion chamber and a perpendicular|vertical flue part, i.e., radiant heat, and a convection heat and to say.

PROBLEM to be solved

Rocket stove

WHEREIN:

While providing the some air chamber divided into the height direction along the outer wall of an external perpendicular|vertical flue, each air chamber was mutually connected in the thin hole, and the air inflow port was formed in the lower air chamber, and the air discharge port was formed in the top air chamber.

Moreover, while winding the water pipe in the coil shape, the water supply port was provided in the downward direction, and the hot-water extraction opening was provided in the inner wall of the external perpendicular|vertical flue upwards.

Furthermore, while extending|stretching the horizontal flue to the inside of a greenhouse, it connected with the perpendicular|vertical chimney same temperature outdoor.

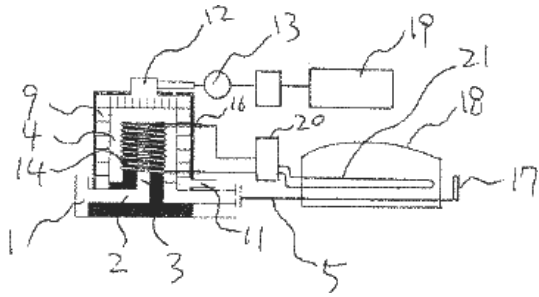
SELECTED DRAWINGS

FIG. 4

[MAT_IMAGE 000002]

(Translation from Clarivate Analytics)

Front Page Drawing:



Title: Heater with heat resistant anti-oxidant coating on interior surfaces

Assignee/Applicant: PERRAULT CHARLES JAMES

Publication Number:  **US6769424B2**

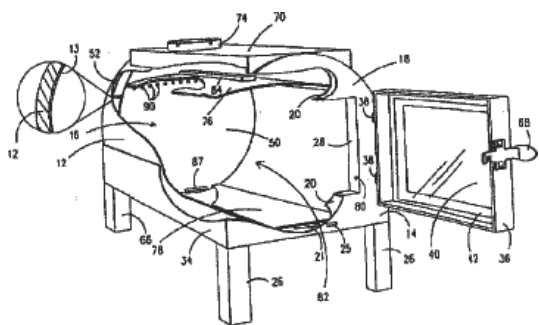
Publication Date: 2004-08-03

Priority Number: US2001868728A | US2001868728A | US2003356601A

Abstract (English):

A heater for burning fuel having a hollow enclosure with an air inlet, and a combustion gas outlet. The enclosure has an exterior heat exchange wall preferably directly exposed to ambient air and an interior surface defining a combustion chamber. The enclosure has a body with front and rear openings into which are fitted a front panel and a rear panel defining joints therebetween. The interior surface of the enclosure is coated and joints are sealed with heat resistant anti-oxidant material, for example: porcelain enamel, having a co-efficient of thermal expansion not substantially greater than the co-efficient of thermal expansion of the enclosure.

Front Page Drawing:



Title: STOVE

Assignee/Applicant: HONMA SEISAKUSHO KK

Publication Number:  **JP2000046334A**

Publication Date: 2000-02-18

Priority Number: JP1998215827A | JP1998215827A

Abstract (English):

PROBLEM TO BE SOLVED: To provide a stove where black smoke is hard to occur, in a chimney installation type of stove which burns fuel such as wood, etc., within a furnace body.

SOLUTION: This is a stove which is provided with a block cover 2 in the upper opening of a tubular furnace body 1 for burning cast-in fuel such as wood or the like, and the interior of this furnace body 1 is provided with a partition body 3 for partitioning the inner space of this furnace body 1 above and below, and the upper space part 4 over this furnace body 3 is provided with an exhaust part 5 which exhausts the air within this upper space part 4 to outside of the furnace 4. An under space part 6 under this partition body 3 is made in a combustion space 6A for fuel input, and a communication part 7 for connecting the upper space part 4 with the lower space part 6 is made in this partition body 3, and a catalyst 8 for burning the unburned gas produced in the under space part 6 is arranged in this communication part.

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SUBJECT of the Invention

The stove of the chimney equipment type which burns fuels, such as firewood, within a furnace
WHEREIN:

Provide the stove out of which a black smoke cannot come easily.

PROBLEM to be solved

It is the stove which provided the obstruction|occlusion cover body 2 in the upper opening of the cylindrical furnace 1 which throws in fuels, such as firewood, and burns them,

Comprising:

The partition 3 which partitions off this furnace 1 inner space up and down in this furnace 1 is provided, the exhaust_gas|exhaustion part 5 which discharges|emits the air in this upper side space part 4 out of the furnace 1 to the upper side space part 4 more_upward than this partition 3 is provided, and the lower side space part 6 more downward than this partition 3 is formed in the combustion space part 6A for fuel injection|throwing-in,

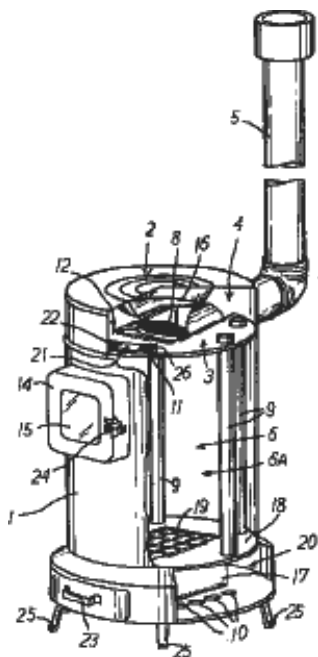
The connection part 7 which connects the said upper side space part 4 and the lower side space part 6 is formed in this partition 3,

The stove which arrange|positioned the catalyst 8 which burns the non-combusted gas emitted in the said lower side space part 6 in this connection part 7.

[MAT_IMAGE 000002]

(Translation from Clarivate Analytics)

Front Page Drawing:



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