Sept. 3, 1940. V. A. BENSON 2,213,483

BARBECUE STOVE

Filed June 21, 1939

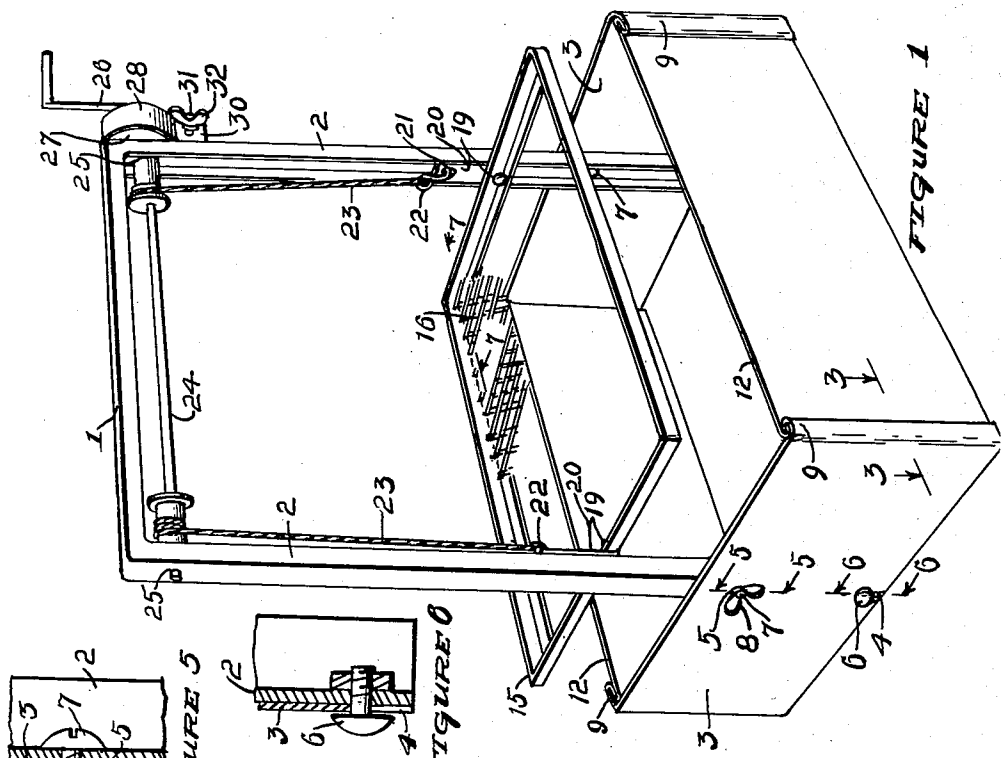


FIGURE 1

FIGURE 5

FIGURE 6

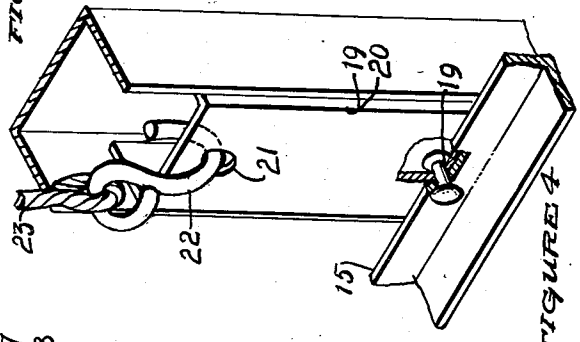


FIGURE 4



FIGURE 7

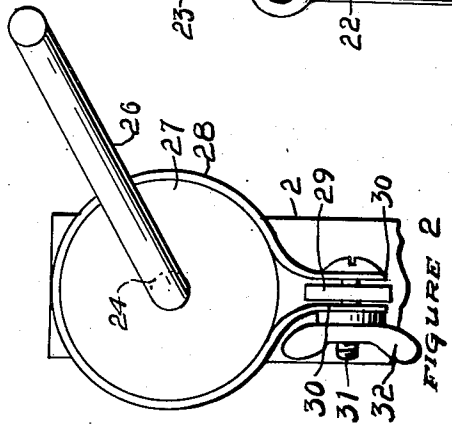


FIGURE 2

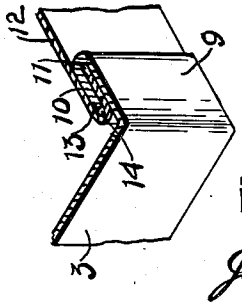


FIGURE 3

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Patented Sept. 3, 1940

2,213,483

UNITED STATES PATENT OFFICE

2,213,483

BARBECUE STOVE

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Application June 21, 1939, Serial No. 280,268

6 Claims. (Cl. 126—14)

The present invention relates particularly to that type of barbecue stoves wherein the grill is adjustable relative to the floor of the fire box.

It is one object of the present invention to provide a device of the character indicated that may be quickly and easily collapsed into small space for transportation or storage, and as easily and quickly assembled for use.

It is another object to provide a simple and efficient control for effecting the vertical adjustment of the grill.

It is also an object to provide a device wherein the grill is so constructed that it may be quickly and easily cleaned and economically assembled.

Finally, it is an object of the invention to provide a device of the character indicated that will be economical to manufacture, that consists of few and simple parts, that will be light in weight, strong, durable, and highly efficient in its practical application.

In the drawing:-

Figure 1 is a perspective view of a device embodying my invention, a part being broken away.

Figure 2 is an end elevation of a portion of the grill adjusting device.

Figure 3 is a perspective illustration showing an enlarged detail section on line 3—3 of Figure 1.

Figure 4 is a perspective illustration showing a portion of the grill adjusting mechanism, with a portion of the grill frame and standard.

Figure 5 is an enlarged detail section on line 5—5 of Figure 1.

Figure 6 is an enlarged detail section on line 6—6 of Figure 1.

Figure 7 is an enlarged section on line 7—7 of Figure 1.

Referring now more particularly to the drawing, I show at 1 a supporting frame or standard formed of a channel iron bent into the form of an inverted U, with the channel directed inwardly, forming legs as 2.

The fire-box is formed about the base of this frame, and when the end members of the box are in place they form a support for the frame in the following manner.

Each end of the fire-box consists of a plate 3 having a slot 4 formed in the bottom edge thereof midway its ends, and having a hole 5 formed therein adjacent its top edge and in vertical alignment with the slot 4.

Fixedly mounted in the bottom of each leg 2 is a headed pin 6, spaced from the bottom of the leg a distance equal to the length of the slot 4, and fixedly mounted in the leg 2 is a threaded pin 7 positioned to engage the hole 5.

The result of this construction is that when the slot 4 of plate 3 is engaged with the pin 6, on the outer side of leg 2, the hole 5 will engage pin 7. By threading a wing-nut 8 on pin 7 the plate 3 is fixedly held in position on the outer side of leg 2 and extending an equal distance on each side thereof with its bottom edge on a level with the bottom of the leg so that it functions not only as a closure for one end of the fire-box, but also as a supporting foot that maintains the leg in an upright position.

Each plate 3 has its two ends bent inwardly at right angles to the plane thereof as at 9, and thence backwardly into a plane paralleling part 9 as at 10 to form an intervening slot 11.

The front and rear of the fire-box are each formed by a plate 12 having its two ends bent as at 13 to form a slot 14. Each plate 12 is so formed and proportioned that the parts 10 will slide easily in slots 11, and consequently when dropped into position it is securely held without the aid of other mechanical devices.

If it is desired to provide a draft in the fire-box it is only necessary to raise one of the plates 12 a little way and support it in that raised position by placing a stone or other object underneath it.

At 15 is a rectangular frame of lesser external dimensions than the fire-box and formed of a single angle iron bent into shape with one flange extending inwardly to form a support or seat for the grill 16. The grill 16 comprises a piece of expanded metal lath cut slightly smaller than the inner dimensions of the sides of the frame 1. By using a grill of this type no fastenings are required and no other support than the flange of the angle iron is needed, therefore it can expand and contract under varying temperatures without affecting the frame in which it is seated. Furthermore, as shown in Figure 7, it provides a flat surface 17 for the support of meat or cooking utensils, contacting them along edges as 18 in such a manner that their whole lower surfaces are exposed to the heat developed in the fire-box.

On the outer side of the center of each end of the frame 15 is rigidly mounted as at 19 a short upstanding section of channel iron 20. The part 20 is disposed in opposed relation to the leg 2 in which it operates, and is adapted to slide easily therein.

The upper end of each part 20 is provided with a hole 21 through which a hook 22 may be inserted, the hook being attached to a cable 23

windable on a shaft 24 rotatably mounted as at 25 in legs 2 adjacent the top of the frame 1 and in parallel relation thereto.

The shaft 24 is rotated by means of a crank 26 on one end thereof. A circular member 27 is mounted on the shaft 24 to rotate therewith, and this member is fitted with a brake band 28 having its ends overlying each side of a spur 29 projecting laterally from the side of the adjacent leg 2. Passing through the spur 29 and both ends 30 of band 28 is a bolt 31 fitted with a wing-nut 32. By tightening the nut 32 the band 28 may be caused to grip the part 27. By tightening the band 28 properly on member 27 the grill may be securely held at any desired elevation, even with the weight of cooking food thereon, and yet the crank may be operated to change that elevation without changing the tension of the band.

The device may be reduced to a flat package by unfastening hooks 22, lifting out grill 16 and frame 15 and plates 12, and detaching end plates 3.

Although but one specific embodiment of the invention has been herein illustrated and described, it will be understood that various alterations in the details of construction and mode of assembly may be made without departing from the scope of the invention as indicated in the appended claims.

I claim:

1. A structure of the character described comprising, in combination, a vertically disposed inverted U shaped standard forming spaced legs, a vertically disposed plate removably attached to the bottom of each leg, and extending laterally therefrom to form supports for the legs and end closures for a fire-box, front and rear plates slidably engaging the end plates to form front and rear closures for the fire-box, and a grill suspended from the top portion of the standard and mounted for vertical adjustment relative to the fire-box.

2. A collapsible barbecue stove comprising, a vertically disposed inverted U shaped standard forming spaced legs, a fire-box encompassing the base of the legs comprising, end plates detachably mounted on the outer sides of the legs and extending laterally in both directions therefrom in parallel relation to each other to form supports for the legs, and front and rear plates having vertical sliding engagement with the ends of the end plates, and a grill suspended from the upper ends of the legs and between the same, and mounted for vertical adjustment within the confines of the fire-box.

3. A collapsible barbecue stove comprising, a supporting frame formed of an inverted U shaped channel iron with the channel directed inwardly, end plates detachably mounted on the flat lower outer faces of the frame, and extending laterally in both directions therefrom in parallel relation to each other to form supports for the frame, front and rear plates slidably and detachably engaging the ends of the end plates to cooperate with the end plates to form a fire-box, a grill inserted between the sides of the frame and having sliding engagement therewith and detachable therefrom, a shaft journaled in the upper portion of the frame, cables attached to the shaft and detachably connected to the grill, and a braking device inserted between the shaft and frame to control rotation of the shaft.

4. The structure set forth in claim 3 wherein the braking device comprises a circular member mounted on and rotatable with the shaft, a member fixedly mounted on the frame adjacent the circular member, a brake band encircling the circular member with its ends overlying opposite sides of the fixed member, and a brake band tightening device engaging its ends and the fixed member.

5. In a barbecue stove, a vertically disposed frame forming spaced legs, a vertically movable grill disposed between the legs, a shaft journaled between the upper portions of the legs, cables attached to the shaft and grill, and a braking device inserted between the shaft and frame to control rotation of the shaft.

6. In a barbecue stove, a vertically disposed frame forming spaced legs, a vertically movable grill disposed between the legs, a shaft journaled between the upper portions of the legs, cables attached to the shaft and grill, a circular member mounted on and rotatable with the shaft, a member fixedly mounted on the frame adjacent the circular member, a brake band encircling the circular member with its ends overlying opposite sides of the fixed member, and a brake band tightening device engaging its ends and the fixed member.

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