

G. D. GRANT.
STOVE ATTACHMENT.
APPLICATION FILED AUG. 5, 1911.

1,044,643.

Patented Nov. 19, 1912.

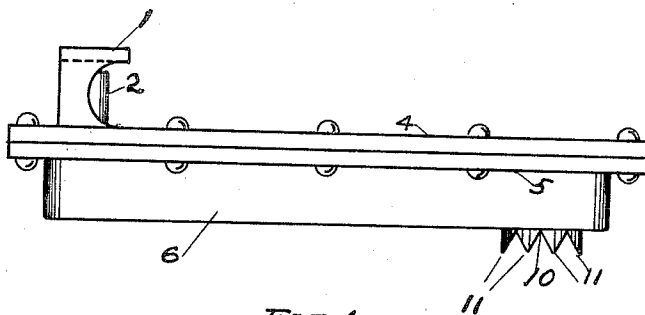


Fig 1

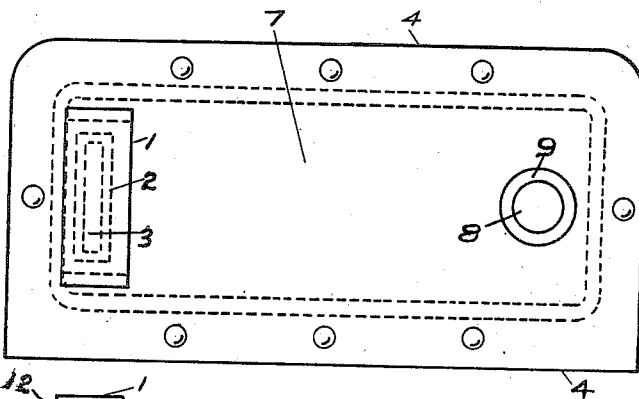


Fig 2

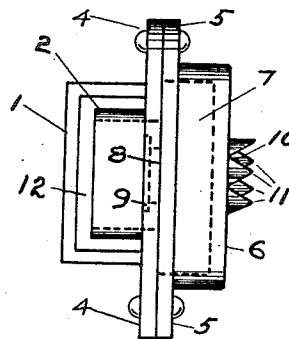


Fig 3

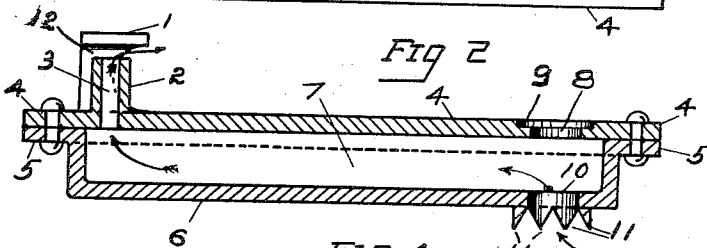


Fig 4

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STOVE ATTACHMENT.

1,044,643.

Specification of Letters Patent.

Patented Nov. 19, 1912.

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To all whom it may concern:

Be it known that I, GLENN D. GRANT, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake, State of Utah, have invented new and useful Improvements in Stove Attachments, of which the following is a specification.

This invention relates to heat deflecting appliances for use in connection with gas burners.

Among the objects of the invention are:—

1. To economize the fuel consumption.
2. To provide a warming plate upon which dishes may be kept warm without the waste of lighting the large burners of the oven.
3. To provide such an attachment as will enable the operator to use one burner in place of several for ordinary purposes.
4. To provide a means by which the flame and heat from one burner may be deflected and used at another point to heat any cooking utensil after the same flame and heat has been used at its starting point for the same purpose.

My invention consists among other things, in the novel construction of the device which consists of a rectangular flat box, with or without rounded corners; near one end of the bottom of the said box is an opening cut in a star-shaped manner, with the points of the star bent downward, so as to fit between the rows of gas jets in the gas burner beneath it, and form a kind of a flue to direct the heated gases upward; immediately above the said star shaped opening there is a hole in the top of the box, and at the opposite end there is also an opening in the top of the box.

With the foregoing and other objects in view, the invention consists of the details of construction and in the arrangement and combination of parts hereafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings which are hereby made a part of this specification.

Similar characters denote similar parts in the several views, in which:—

Figure 1 shows the device looking at it from the front and on a level with it. Fig. 2 represents the device looking down on it from the top. Fig. 3 represents the device as viewed from one end on a level with it and Fig. 4 is a longitudinal cross-section of the device.

The manner of construction is as follows:—A piece of sheet metal is bent or any metal cast into the shape of a box, with the four sides thereof having their upper edges bent over at right angles to provide a flange to which to rivet or otherwise attach the upper side of the box. At one end a hole is cut in the bottom of the box, the incisions being serrate shaped and the said serrate projections being bent downward so as to fit between the rows of jets in a gas burner; immediately above the hole there is cut a hole in the top of the box over which a cooking utensil may be set thus getting the full benefit of the heat arising through the bottom hole. When nothing is over the said upper hole and it is desired to use the heat coming from the other end, a cover is placed over the said mentioned hole in the upper side and the heat is deflected either by the said cover or by the cooking utensil so that it passes to the other end of the box where I have provided a vent or chimney to create a draft; above this vent is placed a shelf on a bracket at a small distance above the opening of the said vent so that the heat in passing through the said vent will strike on the bottom of the said shelf heating the same as it passes out of the said vent and thus providing another place upon which to put cooking utensils or articles to be kept warm.

In the several drawings, 1 is the shelf placed above the vent or chimney, 2, but not touching the same. 3 is the inside of the said vent and the arrows indicate the direction of the hot gases.

4 is the upper side of the box.

5 is the flange on the side of the box.

6 is the bottom section of the box. 7 is the interior of the said box. 8 is the hole in the upper side of the said box, immediately above the hole in the bottom of the said box. 9 is the cover to be placed over said hole on occasion. 10 is the opening in the bottom of the said box.

11 represents the serrate projections at the hole in the bottom of the box.

12 is the space between the vent or chimney, 2, and the shelf, 1.

It will be readily seen that by placing the device over a gas burner so that the hole 10 will be over the gas burner, that the projections 11 serve to direct the hot gases from the burner upward against the cover 9, should the said cover be in position, or if the cover 9 has been removed and a cooking

utensil placed above the hole 8, it will be observed that the said hot gases will be directed first against the said cooking utensil, and thence they will be directed and drawn by the draft of the chimney 2, under the upper side of the box until they pass out through the space 12 immediately underneath the shelf 1, which they heat in their passage.

10 Articles not requiring the direct heat of the flame may be placed upon any part of the upper side; the cover, 9, may be removed and a cooking utensil placed immediately above the flame and other cooking
15 utensils or articles to be kept warm may be placed on the shelf, 1.

In practice I find that there is great economy in the consumption of gas by the use of this appliance.

20 Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

In a stove attachment, a box comprising a top portion and a bottom portion and
25 sides; the edges of the sides being bent at

right angles to form a flange to which to secure the top of the said box, the bottom of the box having an opening made in one end and projections or points extending downward from the edges of the said opening; the upper side of the said box having a hole immediately above the said bottom opening, with a suitable cover to place over the same, and at the end opposite to the said bottom opening a vent or chimney attached thereto leading from the interior of the device, the same being surmounted by a shelf, with a sufficient opening between the top of the said vent and the bottom of the said shelf, and means for securing the two portions of the said box together.

In testimony whereof I have hereto affixed my signature in the presence of two witnesses.

GLENN D. GRANT.

Witnesses:

M. S. CARLETON,
F. S. GRANT.