(No Model.)

D. F. GALER.

HEATING ATTACHMENT FOR COOK STOVES.

No. 501,499. Patented July 18, 1893.

Fig. 1.

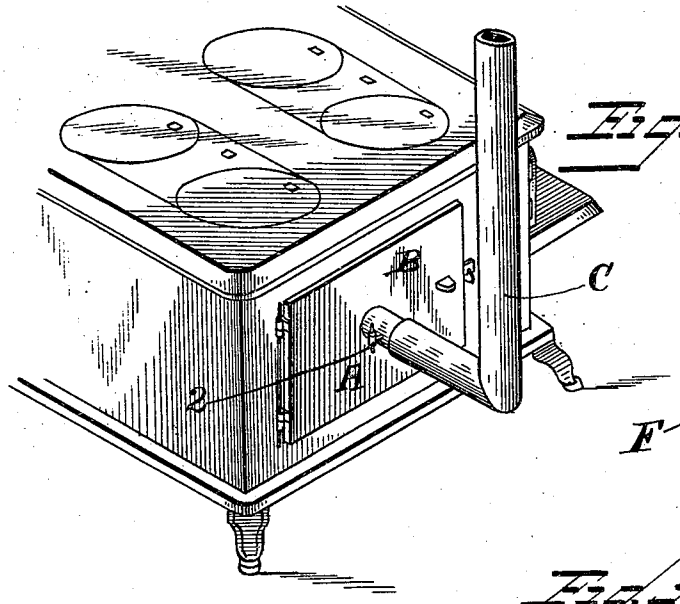


Fig. 5.

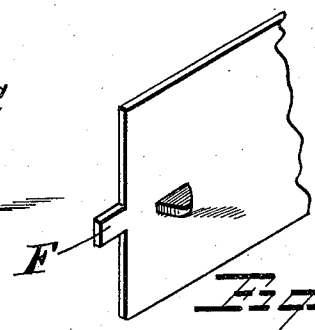


Fig. 3.

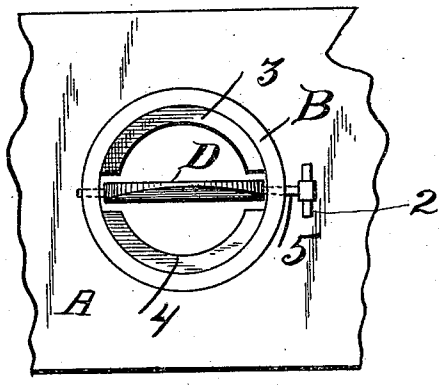


Fig. 2.

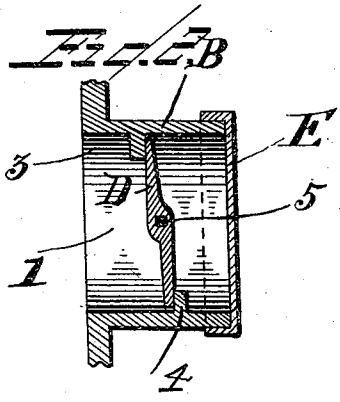
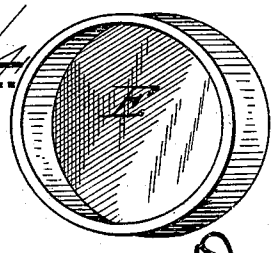


Fig. 4.



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HEATING ATTACHMENT FOR COOK-STOVES.

SPECIFICATION forming part of Letters Patent No. 501,499, dated July 18, 1893.

Application filed March 8, 1893. Serial No. 465,132. (No model.)

To all whom it may concern:

Be it known that I, DRUSILLA F. GALER, a citizen of the United States, residing at Palmyra, in the county of Lebanon, State of Pennsylvania, have invented certain new and useful Improvements in Heating Attachments for Cook-Stoves; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in heating attachments for cook-stoves.

The object of my invention is to provide a simple, inexpensive and readily attached device by means of which an ordinary cook-stove may be utilized for heating purposes.

A further object is to overcome the many disadvantages existing in the devices heretofore employed for the same purpose as my invention.

The invention will first be fully described in connection with the accompanying drawings, and then particularly pointed out in the claims.

In the drawings—Figure 1 is a perspective view of a part of a cook-stove having my improved heating attachment. Fig. 2 is a section through the center of the thimble and door. Fig. 3 is a front elevation of the thimble. Fig. 4 is a perspective view of the cap. Fig. 5 is an end view of door showing catch.

Referring to the drawings, A is an oven-door having a circular opening 1 surrounded by a thimble B preferably made integral with the door. This thimble is adapted to receive the end of the pipe C made of sheet iron and similar to the ordinary stove-pipe.

D is a damper, pivotally mounted in the thimble, having a suitable handle 2 outside the thimble, by means of which the damper may be rotated, the vertical or closed position of the damper being assured by an upper and a lower segmental stop 3 and 4, which stops are not directly over each other, but are located so that the outer face of the upper stop is in a vertical plane separated from the vertical plane passing through the inner face of the lower segment by the thickness of the edge of the damper; moreover the central portion of the damper is made thicker than its edges to give strength and rigidity to it, and to form a better bearing for the rod 5 on which it is mounted.

E is a cap adapted to be placed over the outer end of the thimble when pipe C is removed, as in the summer season.

F is a door-catch or tongue, which, instead of being formed as usual, is straight on both top and bottom edges; moreover the central axis of this tongue is in the same horizontal plane with the center of the door. By this construction the door may be used on either side of the stove as desired, it being only necessary to invert the door when changing it from one side to the other.

By manufacturing stove-doors with a thimble and damper, the ordinary stove-door may be lifted off and a new one put on by the users themselves, and the heating pipe may then be readily attached to the thimble and the heat from the oven of the cook-stove conveyed to any desired place.

I am aware that cook-stoves have been fitted in various ways to serve as heating stoves, but in all those with which I am acquainted an almost entire reconstruction of the stove is necessary, and moreover, in the majority of them the parts embodying the heating apparatus have been located so as to be exposed to the fire and liable to burn out, whereas in my arrangement it is possible to quickly and easily make the necessary connections to convert a cook-stove into an excellent heating stove. As the oven doors do not fit air-tight there will always be enough air entering the oven to keep up the supply.

By means of the damper the supply of air to the heating-pipe may be regulated, and when the pipe is removed, as in the summer season, the damper may be used to regulate the heat of the oven in cooking, or, when the oven is not being used, the cap may be placed on the thimble.

It is understood that, as only one door of the stove is provided with the thimble, the other door permits the use of the oven for cooking purposes in the usual way.

The provision of the internal stops 3, within the thimble B, is a very important feature of my invention. These stops 3 are semi circular and each extends almost half way around the interior of said thimble as seen in Fig. 3. By this formation of the stops it will be seen

that the damper D, is permitted to be turned but little more than a quarter revolution, whereby the annoyance heretofore attendant on adjusting such dampers is wholly obviated, and since the damper can only be moved a quarter revolution back to open the passage or forward to close, the time required for its adjustment is reduced to the minimum.

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

1. An interchangeable cook-stove door having an opening in its side adapted for connection with a heater-pipe and a tongue centrally formed on its free end, said tongue having its upper and lower edges parallel with the central axis of said door, substantially as described.

2. The combination with the tubular thimble, of the damper pivoted in said thimble and extending diametrically across the same, and the semi-circular stops 3, arranged in the interior of said thimble on opposite sides thereof, and extending in planes on opposite sides of the pivot point of said damper, each of said stops having its ends and one face adapted to contact with said damper in extreme positions thereof, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

her
DRUSILLA F. × GALER.
mark

Witnesses:
G. W. BALLOCH,
GEO. E. TERRY.