(No Model.)

C. A. HOLM.

ODOR PREVENTING DEVICE FOR COOKING STOVES.

No. 404,194. Patented May 28, 1889.

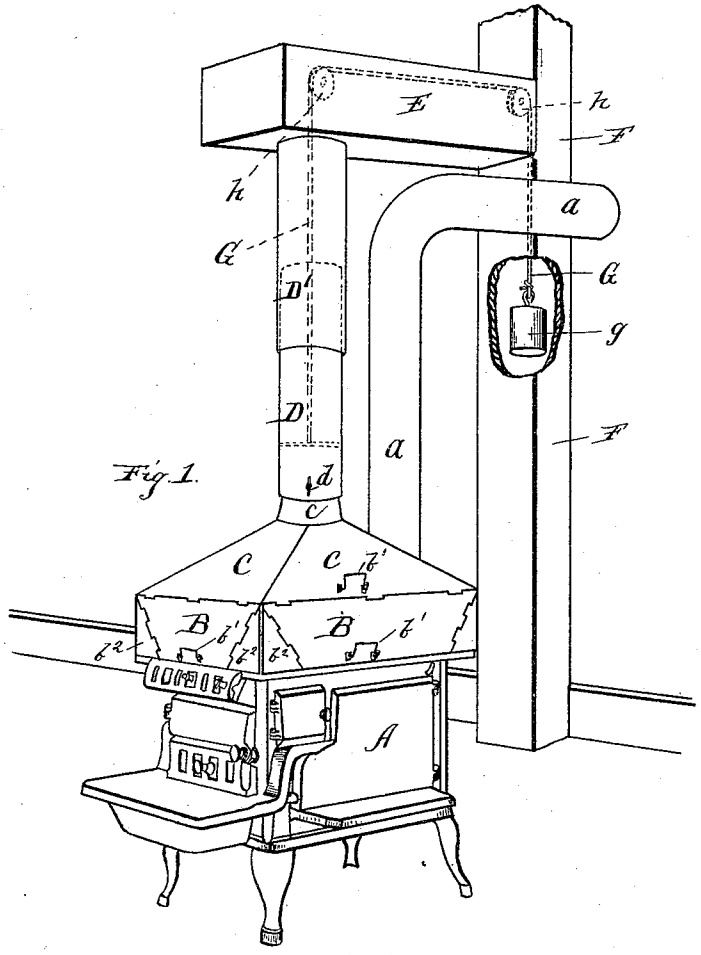


Fig. 1.

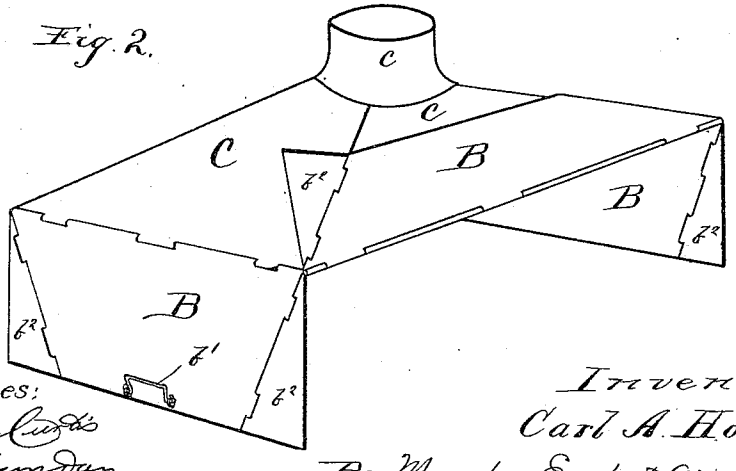


Fig. 2.

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UNITED STATES PATENT OFFICE.

CARL A. HOLM, OF CHICAGO, ILLINOIS.

ODOR-PREVENTING DEVICE FOR COOKING-STOVES.

SPECIFICATION forming part of Letters Patent No. 404,194, dated May 28, 1889.

Application filed June 20, 1888. Serial No. 277,656. (No model.)

To all whom it may concern:

Be it known that I, CARL A. HOLM, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Odor-Preventing Devices for Cooking-Stoves, of which the following is a specification.

This invention relates to the construction of a movable hood or cover adapted to be lowered over a cooking-stove while cooking-vessels are being used thereon, so as to prevent the escape of the fumes and steam, and the manner of raising and lowering such hood. The hood is made with hinged sides or leaves, any one of which can be raised independently of the others, either to give access of air to the cooking-vessels upon the stove or for the purpose of inspecting or removing the article being cooked. The top of the hood I form of four sloping sides, which meet at the center and terminate at that point in a thimble adapted to receive a pipe-connection. And in order that the folding or hinged sides when raised and folded over upon the top may conform to and be flat with the top, I also hinge the corners of such sides to the main or central portions thereof, as will be better understood from the description given below. The hood is connected with a ventilating shaft or flue of the house by vertical telescoping pipe-sections and a fixed horizontal box or pipe leading into the flue, and I attach the hood to a chain passing through these pipe-connections and suspend from the farther end of said chain in the ventilating-flue a counterbalancing-weight, so that the entire hood may be easily raised from the stove and will remain suspended in any position in which it may be left by the operator.

In the accompanying drawings, which form a part of this specification, Figure 1 is a perspective of a cook-stove to which my invention has been applied; and Fig. 2 is a like view of the hood detached, somewhat enlarged from Fig. 1, and showing one side open.

In said drawings, A represents the stove, and *a* the smoke-pipe thereof leading into a flue, preferably distinct from the ventilating-flue hereinafter mentioned. The hood is composed of hinged vertical sides or leaves B, and a conical top formed of four sloping sides, C, terminating in a central pipe or thimble, *c*. The sides B are hinged at their junction with the top in any suitable and inexpensive manner, or they may be made detachable. In order that the corners b^2 of the side leaves may not interfere with each other when two of the leaves are turned over upon the top, I make the corners of the leaves separate from the body portions thereof and hinge them to the latter upon diagonal lines. This permits the corners to assume the positions parallel with the sloping sides of the top and allows two adjacent sides to be turned over at the same time without interfering one with the other. The top and the side of the hood are preferably furnished with lifting-handles *b'*.

D D' are the telescoping vertical pipe-sections, which telescope together when the hood is raised from the stove. One of them sets over the thimble *c*, and is preferably provided with a damper, *d*, so that when no cooking is being done and the heat is desired to be retained in the room all escape at the ventilating-shaft may be cut off.

E is a horizontal box suspended either from the ceiling above or from the wall and forming a connection between the telescoping pipes and the flue or ventilating-shaft F. It will be readily seen from the description thus far given that all the steam and odors arising from the cooking will be conducted by the hood and its connections to this ventilating-shaft, in which an upward current should prevail, so that the air of the kitchen may remain unaffected by such odors, &c. In order that the hood may be readily lifted above the stove when desired, I suspend it by a chain or wire, G, connected to the thimble *c* or the lower telescoping pipe-section, and carrying at its farther end a counterbalancing-weight, *g*. This cable runs over pulleys or rollers *h*, located in the boxing E, so that a very slight lifting-force is all that is requisite to raise the hood. The counterbalancing-weight is heavy enough to hold the hood in any suspended position. It will be noticed that these suspending devices are all located within the pipes and flue and covered from

sight, so that the machinery of the device does not form an objectionable feature.

I claim—

1. The hood for carrying off odors and steam from a cooking-stove, having folding sides or leaves B, said leaves being provided with hinged corners, substantially as specified.

2. The hood for carrying off odors and steam from a cooking-stove, consisting of the hinged leaves or sides B, provided with hinged corners and the sloping-sided top C, substantially as specified.

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