(Model.)

# G. W. WALLACE.

## STOVE HOOD.

No. 346,694. Patented Aug. 3, 1886.

Fig. 1.

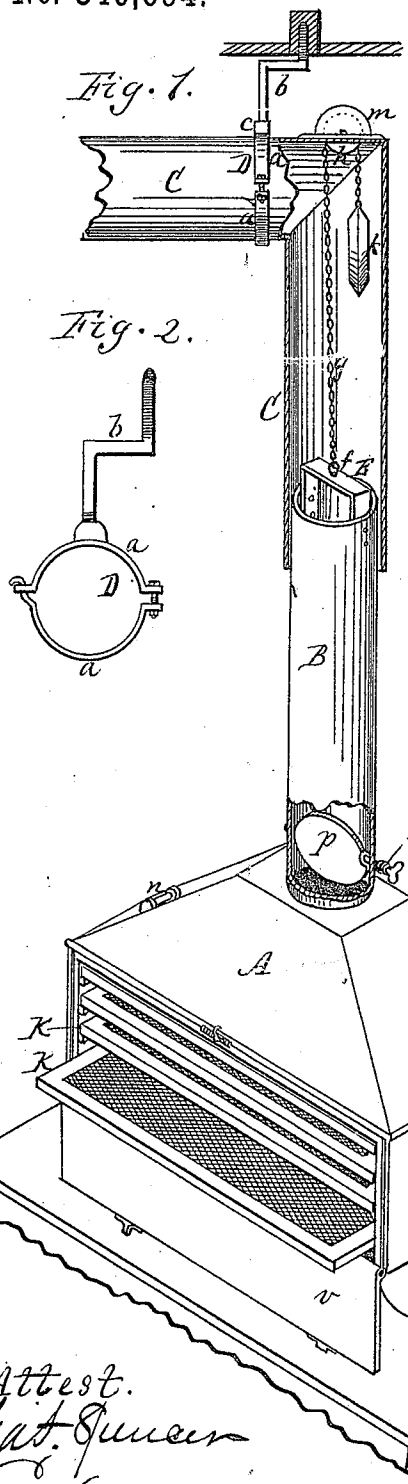
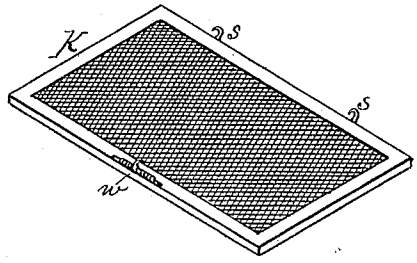



Fig. 2.




Fig. 3.




Attest.
Chas. Duncan
E. S. Adams

Inventor.
Geo. W. Wallace,
by R. F. Osgood,
Atty.

N. PETERS, Photo-Lithographer, Washington, D. C.

# UNITED STATES PATENT OFFICE.

GEORGE W. WALLACE, OF CANANDAIGUA, NEW YORK.

## STOVE-HOOD.

SPECIFICATION forming part of Letters Patent No. 346,694, dated August 3, 1886.

Application filed January 21, 1885. Serial No. 153,475. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. WALLACE, of Canandaigua, in the county of Ontario and State of New York, have invented a certain new and useful Improvement in Stove-Hoods; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view, partially in section, of my improvement located over a cook-stove. Fig. 2 is an elevation of the hanger for holding the pipe. Fig. 3 is a perspective view of one of the drying sieves or screens that fits in the hood.

My improvement relates to hoods used above cook-stoves and ranges for conveying off smoke, dust, odors, &c., through a pipe that leads to the stove-pipe or chimney.

The invention consists in the special construction of the hood and its attachments, as hereinafter described.

In the drawings, A indicates the hood, which is hollow, open at its bottom, and made of any desired form and size.

B is a section of pipe attached to the top of the hood, and forming a fixture thereto. This pipe I denominate the "slip-pipe."

C is another section of pipe, that forms the exit-pipe leading off to the stove-pipe or chimney. This main pipe is suspended from the ceiling by means of a hanger, D. The hanger consists of two half-circular clamps, *a a*, which encircle the pipe and an elbow-shaped arm, *b*, both ends of which are threaded, one end screwing into a boss, *c*, on the top of the clamp, the other end entering the ceiling, as shown in Fig. 1. The clamp is fastened tightly around the pipe by means of hook and eye and bolt that draw the sides of the clamp together. By the construction of the hanger as described, with the elbow-shaped arm threaded at both ends, the pipe can be run in any desired direction without difficulty, as the clamp can be turned on the end of the elbow, and at the same time the elbow can be attached to the ceiling in whatever position the hanger is placed, as the upper cranked end of the elbow is of sufficient length to reach one of the joists in any direction.

E is a stirrup attached to the top of the slip-pipe B, and resting in the vertical part of the stationary pipe C.

*f* is a swivel attached to the top of the stirrup.

*g* is a chain or cable attached to the swivel, passing thence up through the vertical part of the stationary pipe and over a small pulley, *h*, at the top of the main pipe, and thence down, and having attached at the other end a counter-weight, *k*, of sufficient size to balance the hood and its attachments. By this means the hood can be raised and lowered to accommodate different articles on the stove, and can also be turned axially to stand lengthwise or crosswise or at an angle, thus covering articles on different parts of the stove. The latter result is produced by the use of the swivel, which allows the hood and pipe to turn without twisting the chain that passes over the pulley, and without disarranging any of the parts. The weight is preferably made of the wedging form shown, as it will freely pass any obstruction it may meet in the pipe. The pulley at the top of the main pipe is inclosed in a housing, *m*, attached on top of the pipe, and the chain passes down through a hole in the pipe. This housing with the pulley attached can be readily applied and removed.

*n n* are handles at opposite ends of the hood, by which it is raised and lowered.

*p* is a damper or valve in the mouth of the pipe B, by which the draft can be cut off at any time. A spring, *r*, is used on the stem of the damper outside the pipe, by which the damper is held in place at any adjustment.

K K are one or more sieves or screens used in the hood for drying fruit or other materials when desired. These screens are located across the opening of the hood, so as to force the hot air to pass up through the fruit placed on the screen before it can escape up the pipe. If a single screen is used, it is attached to the lower edge of the hood by means of two hooks, *s s*, on the back side, which catch in holes made in the rim of the hood, and a single spring-hook, *w*, on the front side, that catches in a hole in the front of the hood. By this means the screen is readily attached and detached, and the front edge can be let down at any time to examine the fruit while drying. When the fruit is dry, the screen can be detached and the fruit removed. If several screens are used, they may

be placed separately in the hood, or they may be attached to a shoe or frame and the latter be attached to the hood. In such case hooks and catches may be used on the shoe similar to those on the single screen. The shoe also has a flap-door, *v*, which turns down in front to expose the screens to remove them from place. By turning the damper more or less in the pipe the drying action may be graded exactly as desired.

By the means above described odors, smoke, dust, &c., can be readily and effectively conveyed away without contaminating the room, and, when desired, the apparatus can be employed for drying fruit or vegetables.

The hanger D is sufficient to sustain the whole pipe, one only being required, and it dispenses with wires and other inconvenient attachments now used for holding pipes, and has the advantage of adjusting itself to the pipe in whatever direction the latter runs, as before described.

The hood can be removed at any time, for cleaning or otherwise, by simply unhooking the chain from the swivel, hooking on the lower edge of the stationary pipe to sustain the weight, and then slipping the slip-pipe from the main pipe.

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

1. The combination of the hood, the slip-pipe attached permanently thereto and resting in the permanent pipe, the stirrup attached to the top of the slip-pipe, provided with a swivel, and the chain attached to the swivel, passing up over a pulley at the top, thence down through the stationary pipe, and having a counter-weight at the opposite end, whereby the hood can be adjusted vertically and turned axially without twisting the chain, as herein shown and described.

2. The combination of the hood provided with one or more screens for drying fruit, the slip pipe attached thereto and resting in the permanent pipe, the stirrup at the top of the slip-pipe provided with a swivel, the chain attached to the swivel, extending up over a pulley, thence down in the stationary pipe, and having a counter-weight at its lower end, and the hanger for supporting the stationary pipe, the whole arranged to operate in the manner and for the purpose specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

GEO. W. WALLACE.

Witnesses:
R. F. OSGOOD,
JACOB SPAHN.