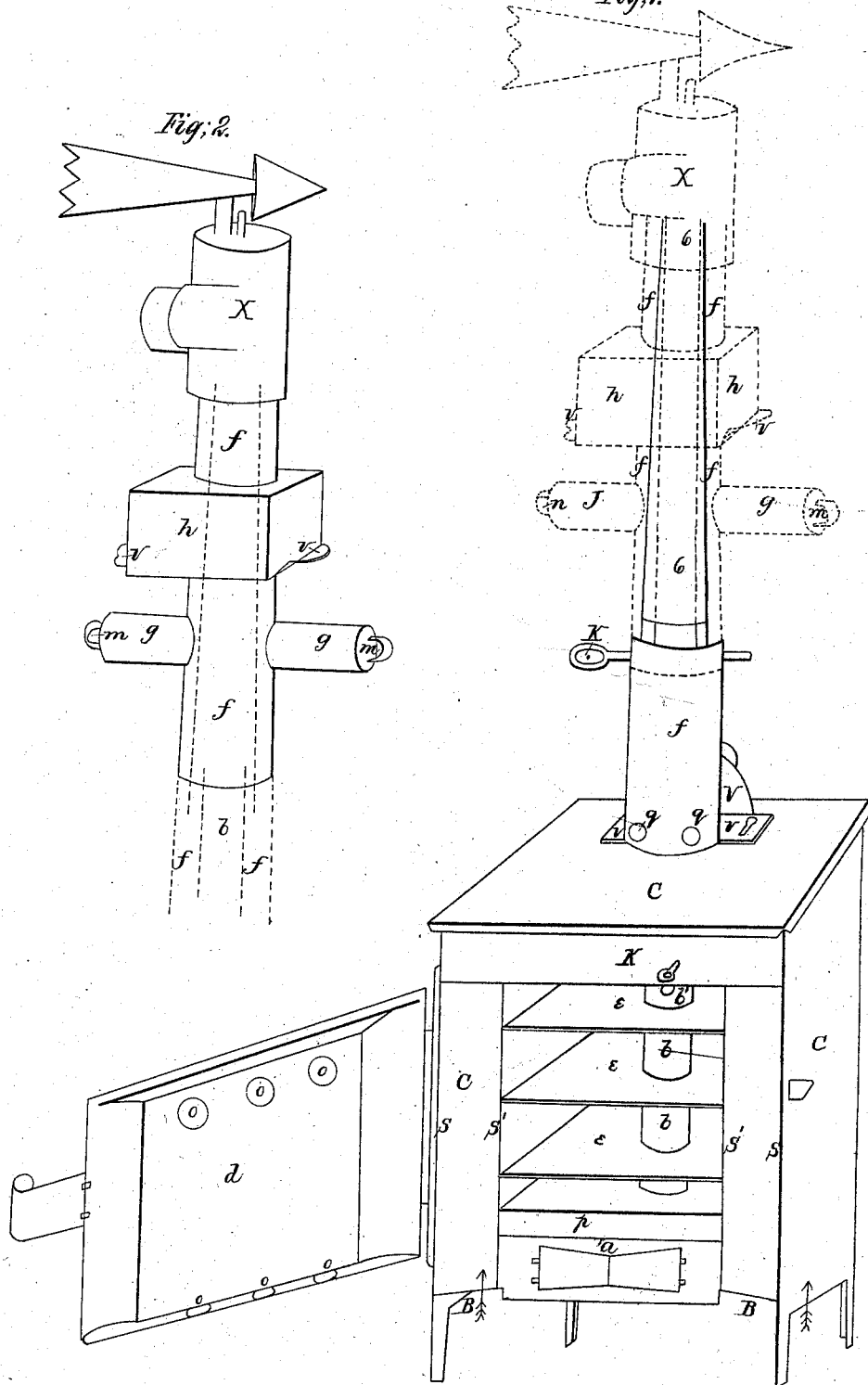


J. Woolley,

Cook Stove.

No. 3492.

Patented Mar. 16. 1844.
Fig. 1.



UNITED STATES PATENT OFFICE.

JOHN WOOLLEY, OF SPRINGFIELD, MASSACHUSETTS.

AIR-HEATING AND COOKING STOVE.

Specification of Letters Patent No. 3,492, dated March 16, 1844.

To all whom it may concern:

Be it known that I, JOHN WOOLLEY, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in warming rooms, &c., in combination with a winter and summer cooking-stove or other heating apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification, in which—

Figure 1, is a perspective view; Fig. 2, outer pipe detached.

The nature of my invention consists in providing a stove (*a*) having a common pipe or funnel (*b*) which passes up through the roof of the building on the lower floor of which the stove (*a*) should be situated, with a covering (*c*) consisting of a double case of tin or other suitable material, of any desirable size or form; on one side of this case is a door (*d*) that opens into the case, which is also made double like the other parts of the case. The outer and inner plates *s* and *s'* forming the case double, should have a space between them of about two or three inches, and have the air of the room in which it is situated freely admitted between them from below, as the direction of the arrows indicate, the bottom being left open for that purpose, at the bottom of the door a row of holes *o, o, o*, are made to admit air between the outer and inner plates and at top similar holes admit the exit of the air into the interior. The pipe (*b*) from the stove (*a*) passes up through the interior of the case (*c*) and out through the double top and out through the roof; within the chamber of the case there is an opening (*b'*) into the said pipe through which the effluvia steam, &c., from cooking pass off. From the top of the case upward there is a pipe (*f*) of larger diameter than the stove pipe, which surrounds it, and is intended for carrying off all the heated air from the sides and top of the case with the interior of which it communicates; this pipe has lateral ones (see *g*, Fig. 2,) for conducting the heated air into the upper apartments which pipes can be closed with the stoppers (*m*); near the roof, there is a valve box (*h*) in which are two common slide valves (*v*). When all the heat is to be retained in the house these valves are closed which prevent the

heat from escaping out of the top of the chimney; by opening them a free egress is given to the heated air and the house is kept cool while cooking in the stove in the warmest weather. *X* represents a chimney cap of ordinary construction which fits over the outside pipe to assist the draft; (*k*) is a damper placed in the stove pipe of ordinary construction; it is just above the case and the handle only is shown in the drawings. On the top of the valve case there is a sliding valve (*v*) which cuts off the communication between the case and pipe (*f*) and letting the air into the room below in the front of this pipe there are apertures (*g*) for admitting cold air to the space between the funnels which prevent their heating too much.

The space inside the case above the stove serves as an oven, and is furnished with shelves or partitions (*e, e*), which are removable at pleasure during the process of baking, the door is closed, as it should be while cooking in warm weather when the heat is to be kept out of the house. The case (*c*) closely fits the stove and is made to conform to the kind of stove used. By this arrangement nearly all the heat and offensive scent is carried off in warm weather; and any degree of heat within the compass of the stove can be imparted to the building in which it is placed as desired.

The pipes may have elbows in any portion of their length to suit the structure in which it is placed, and if required a pipe may be added outside the other two.

What I claim as my invention and desire to secure by Letters Patent is—

1. The combination of the case (*c*) and stove (*a*) in the manner described; the pipe of the stove passing up through the center of the case, and having a hole therein for the purpose set forth.

2. I also claim carrying the two pipes (*b*, and *f*), out above the roof together and covering them both with a cap, constructed, combined and arranged in the manner and for the purpose herein described.

3. I claim in combination with the above the valve box (*h*) and valves (*v*) near the top of the house for closing the outer pipes.

JOHN WOOLLEY.

Witnesses:

GEORGE NICHOLS,
J. J. GREENOUGH.