

(No Model.)

W. S. LANEY.
STEAM ATTACHMENT FOR COOK STOVES.

No. 422,598.

Patented Mar. 4, 1890.

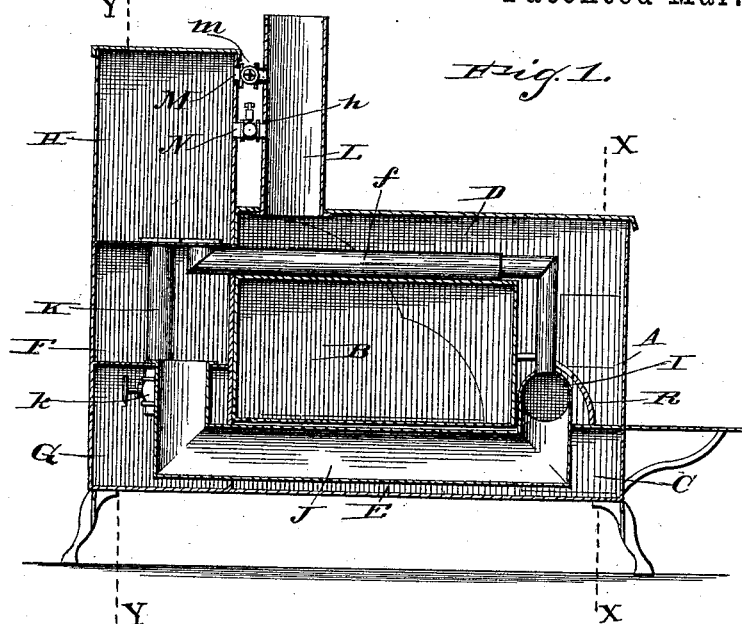


Fig. 2.

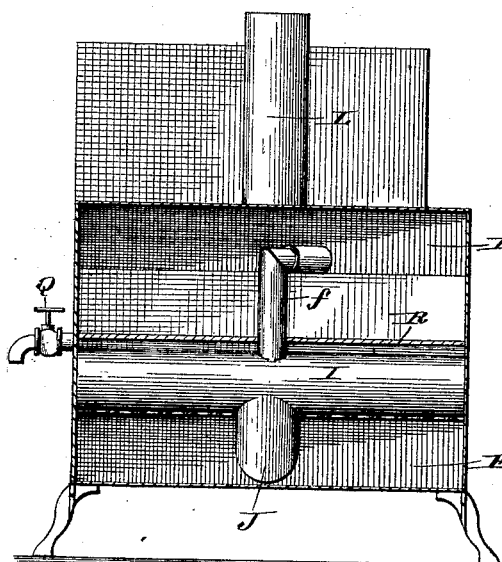
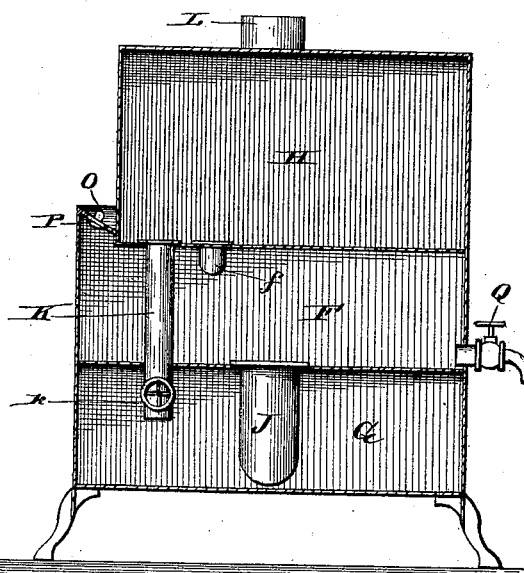


Fig. 3.



WITNESSES

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STEAM ATTACHMENT FOR COOK-STOVES.

SPECIFICATION forming part of Letters Patent No. 422,598, dated March 4, 1890.

Application filed July 3, 1889. Serial No. 316,368. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. LANEY, a citizen of the United States, residing at Lithopolis, in the county of Fairfield and State of Ohio, have invented certain new and useful Improvements in Steam Attachments for Cook-Stoves; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to heating and cooking stoves, and has for its object to provide a stove that will be adapted for domestic, laundry, and cooking purposes.

The improvement consists of the novel features which will be hereinafter more fully described and claimed, and which are shown in the annexed drawings, in which—

Figure 1 is a vertical longitudinal section of a stove embodying my invention. Fig. 2 is a cross-section on the line X X of Fig. 1. Fig. 3 is a cross-section on the line Y Y of Fig. 1.

The stove is of ordinary construction, comprising the fire-box A, the oven B, the ash-pit C, the hot-air space D between the stove-top and the oven, and the hot-air space E beneath the oven.

In the rear of the stove is arranged the steam cooking-chamber G, the water-tank F, and the clothes boiler or steamer H, the three being placed in the same vertical line and above one another, as shown most clearly in Fig. 1. The heater I, placed in the fire-box, is lower than the tank F, and is connected with said tank by the pipe J, which is connected with the bottom of said tank F and is connected by steam-pipe *f* with the steam-chamber H. The pipe J passes down through the ash-pit, through hot-air space E, and into and up through the cooking-chamber G to tank F, as shown. The steam-pipe *f* extends up

through the fire-box, through hot-air space D and into tank F, where it takes a short turn and connects with the bottom of the clothes-steaming chamber H.

The chambers G and H are in communication through the pipe K, the latter being provided with the cock *k*, which can be opened or closed, as required, to establish or cut off communication between the two chambers, as required.

The clothes-steaming chamber H is connected with the smoke-pipe L by the two horizontal pipes M and N. The pipe M has a cock *m*, which can be opened to establish a free passage for the escape of the steam before removing the clothes from said chamber H. The pipe N is provided with a safety or check valve *n* to relieve a high pressure of steam.

Water is poured into the trough O at one end of the tank F and escapes from thence into the tank through a suitable opening, which is closed by the gate P. The water flows from tank F through pipe J to heater I, where it is heated. The steam from heater I escapes through pipe *f* to chamber H, and from chamber H to chamber G through pipe K. Water can be drawn from tank F through the cock Q. The shield R protects the heater I from intense heat and prevents it from burning. In the event of a slow fire the shield can be removed.

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

1. The combination, with the stove and the tank F, and the chambers H and G, above and below tank F, respectively, of the heater in the fire-chamber connected with the tank F and with the chamber H, and the pipe connecting chambers H and G, substantially as and for the purpose described.

2. The combination, with the stove, the heater I, and the water-tank F, of the chamber H, connected with the said heater, and the pipes M and N, the one having a cock, the

other a safety-valve, connecting the chamber II with the smoke-pipe, substantially as described.

3. The combination, with the stove having
5 oven B and hot-air spaces D and E, of the
tank F, having trough O, the gate P, closing
the opening in the trough, the heater in the
fire-box connected with the tank, the chamber
H, connected with the heater and with
10 the smoke-pipe by pipes M and N, the cham-

ber G, and the pipe K, having cock k, connecting the two chambers G and H, substantially as described.

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

WILLIAM S. LANEY.

Witnesses:

MICHAEL DOWDAL,

WILLIAM SCHWEK.