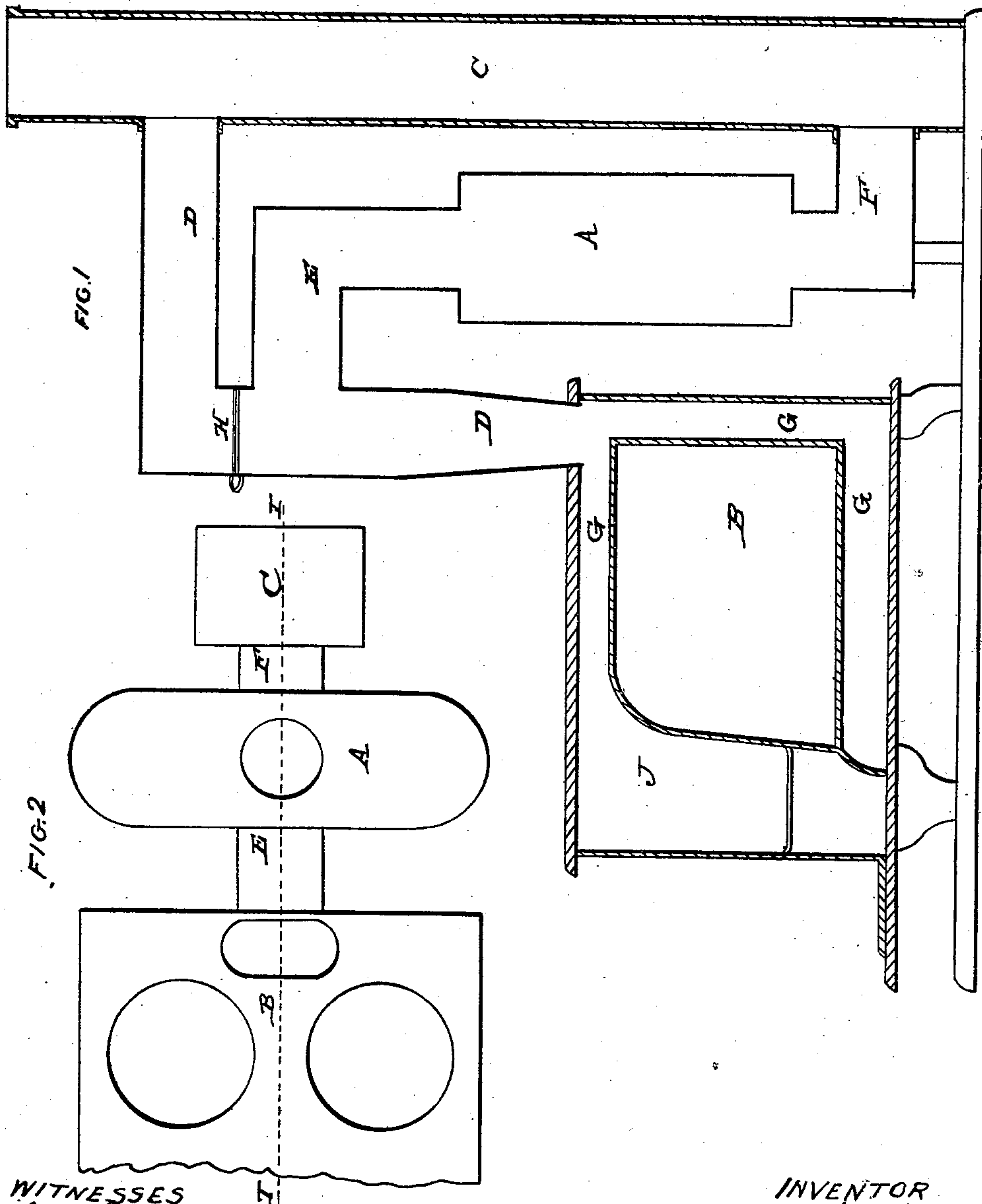


M. T. HITCHCOCK.
Heat Controller Attachment.

No. 49,029.

Patented July 25, 1865.



WITNESSES
John M. Peabody
Jos. Morgan

INVENTOR
Mary Hitchcock

UNITED STATES PATENT OFFICE.

MARCUS T. HITCHCOCK, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND JAMES M. ROSS, OF SAME PLACE.

HEAT-CONTROLLER ATTACHMENT.

Specification forming part of Letters Patent No. **49,029**, dated July 25, 1865; antedated July 19, 1865.

To all whom it may concern:

Be it known that I, MARCUS T. HITCHCOCK, of Springfield, in the county of Hampden, in the State of Massachusetts, have invented a new and useful Improvement in a Heat-Controller Attachment to Cook-Stoves and Heaters; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is a vertical section of the apparatus through line I I of Fig. 2. Fig. 2 is a horizontal view.

The nature of my invention consists in so attaching to cook-stoves and heaters a sheet-metal drum that the hot air and products of combustion flow into the top and circulate down through the body and are discharged into the pipe F, connecting the bottom with the chimney, as shown by reference to the drawings, Fig. 1.

Letters D, E, and F represent the pipes or flues, and A the drum.

After the fire is made, shut the damper H. Then the hot air and products of combustion are forced down through the pipe E into the drum A, having no other outlet but from the bottom of the drum, through the pipe F, into the chimney. Then the cold air in the chimney, being more dense, forms of itself a natural damper, retarding the rush of the hot air and products of combustion from the fire into the chimney. The effect of my arrangement is the holding back of the hot air in the stove or heater, hence retaining a very large portion of the heat in the room, and also of burning all the gases and most of the smoke, consequently saving a very large per cent. in fuel.

It will be seen by reference to the drawings, Fig. 1, that the pipe D enters the chimney at a point higher than the drum and pipe F at a point lower than the drum, which enables me to fully accomplish the above.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Take sheet-iron (either Russia or common iron) to construct the drum A, and proceed in making the joints, &c., same as you would to make a sheet-iron stove, using the same machinery, making one opening in each end, with flange to receive the connections of common stove-pipe, as shown on drawings, Fig. 1. Then make an opening in the pipe D, with a flange the size of opening, to correspond with the attachment-pipe E, which connects the drum A with the pipe D, and with the pipe F make the connection from the bottom of the drum with the chimney.

A A is the drum; B B, sections of the stove; C C, the chimney; D D, the common lead-pipe from the stove to the chimney; E, the connecting-pipe from the top, and F the connecting pipe or flue from the bottom, of the drum with the chimney, as shown on drawings, Fig. 1; G G, fire-flues in the stove; H, the damper; J, the fire-box in the stove.

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

The combination and arrangement of the drum A and pipes D, E, and F and damper H, as applied in the manner and for the purposes substantially as herein described.

MARCUS T. HITCHCOCK.

Witnesses:

JOHN M. STEBBINS,
JOS. MORGAN.