No. 652,560. Patented June 26, 1900.

R. L. HOLLINGSWORTH.

HEATING DRUM.

(Application filed Nov. 10, 1899.)

(No Model.)

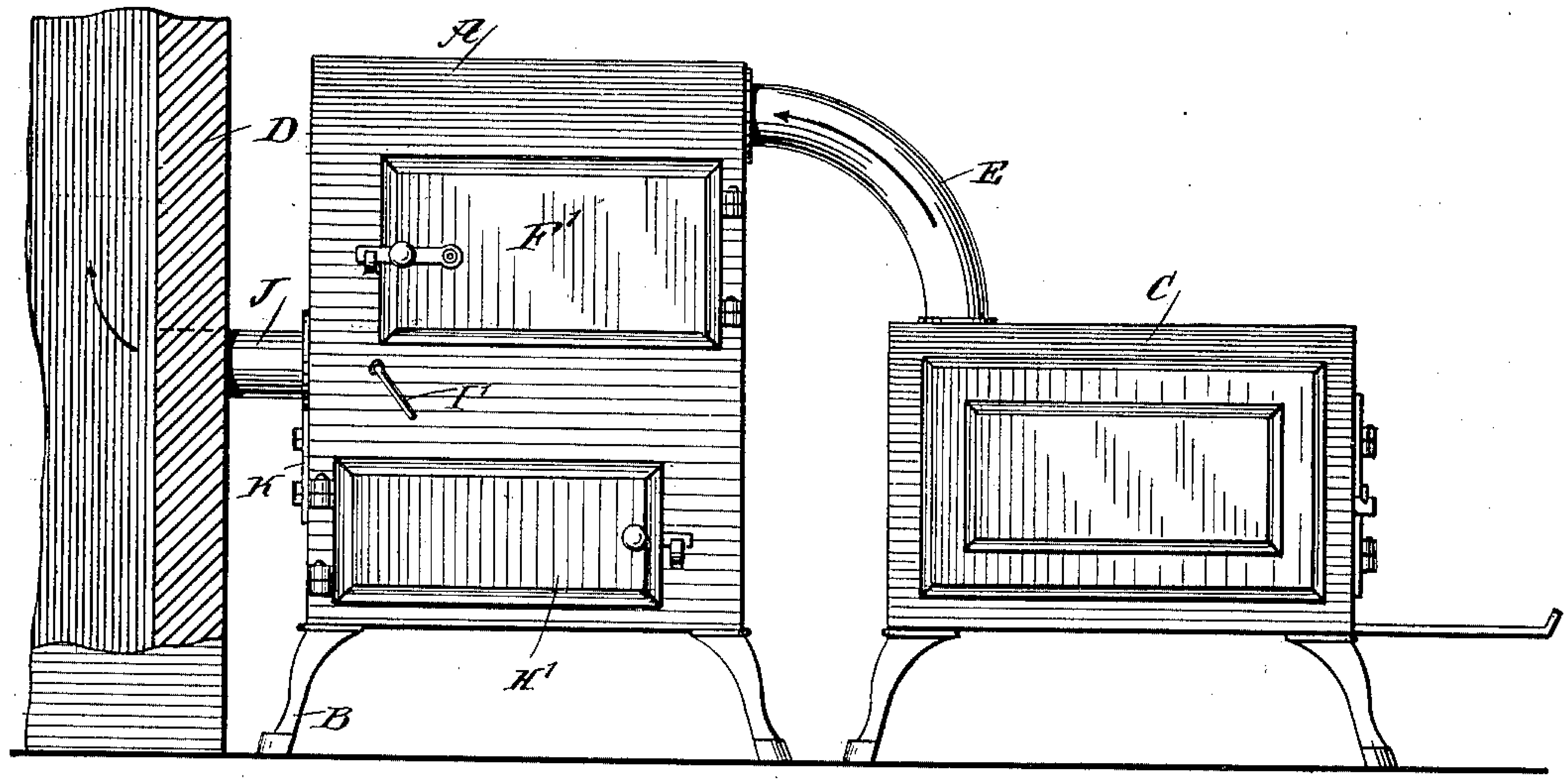
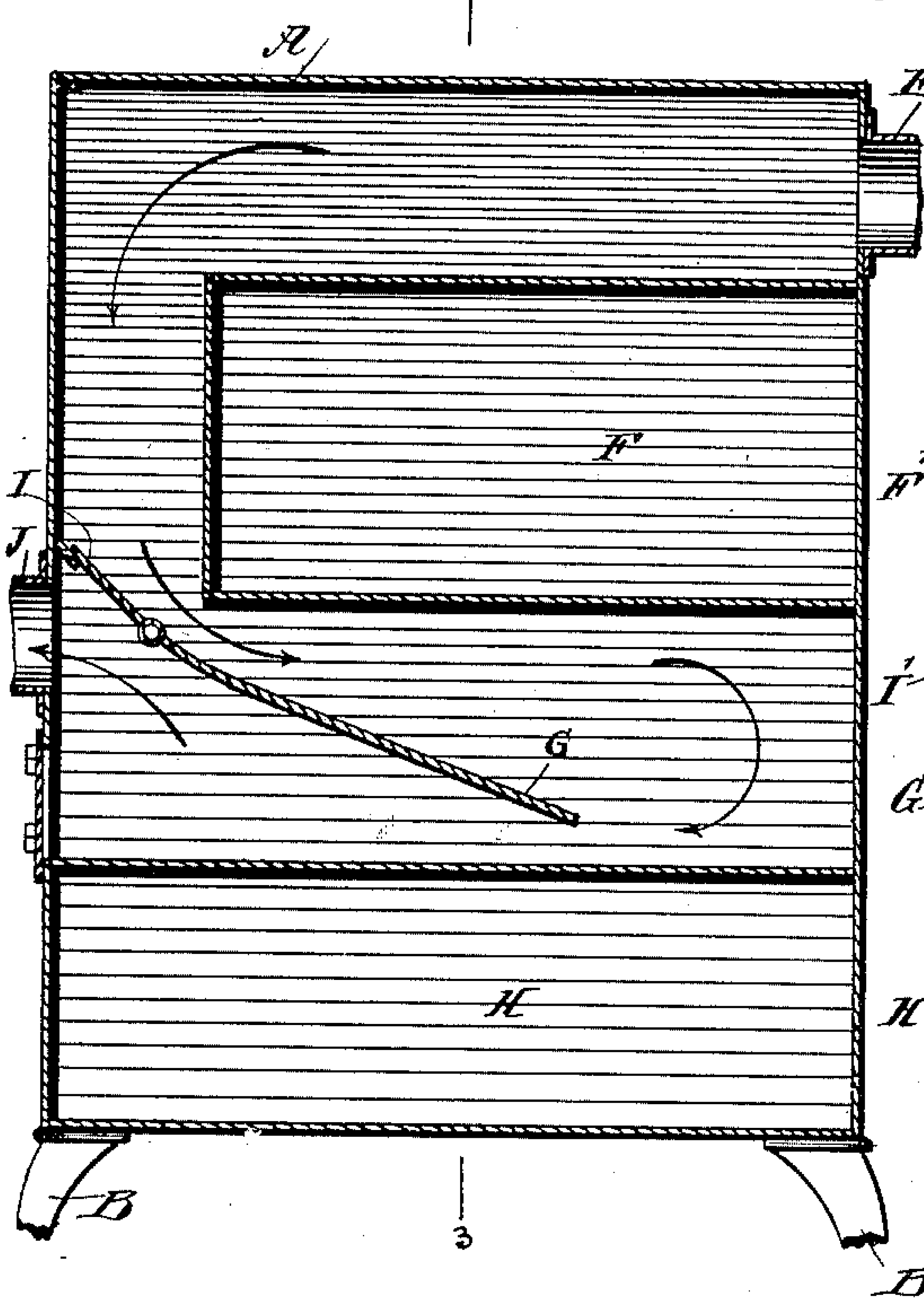
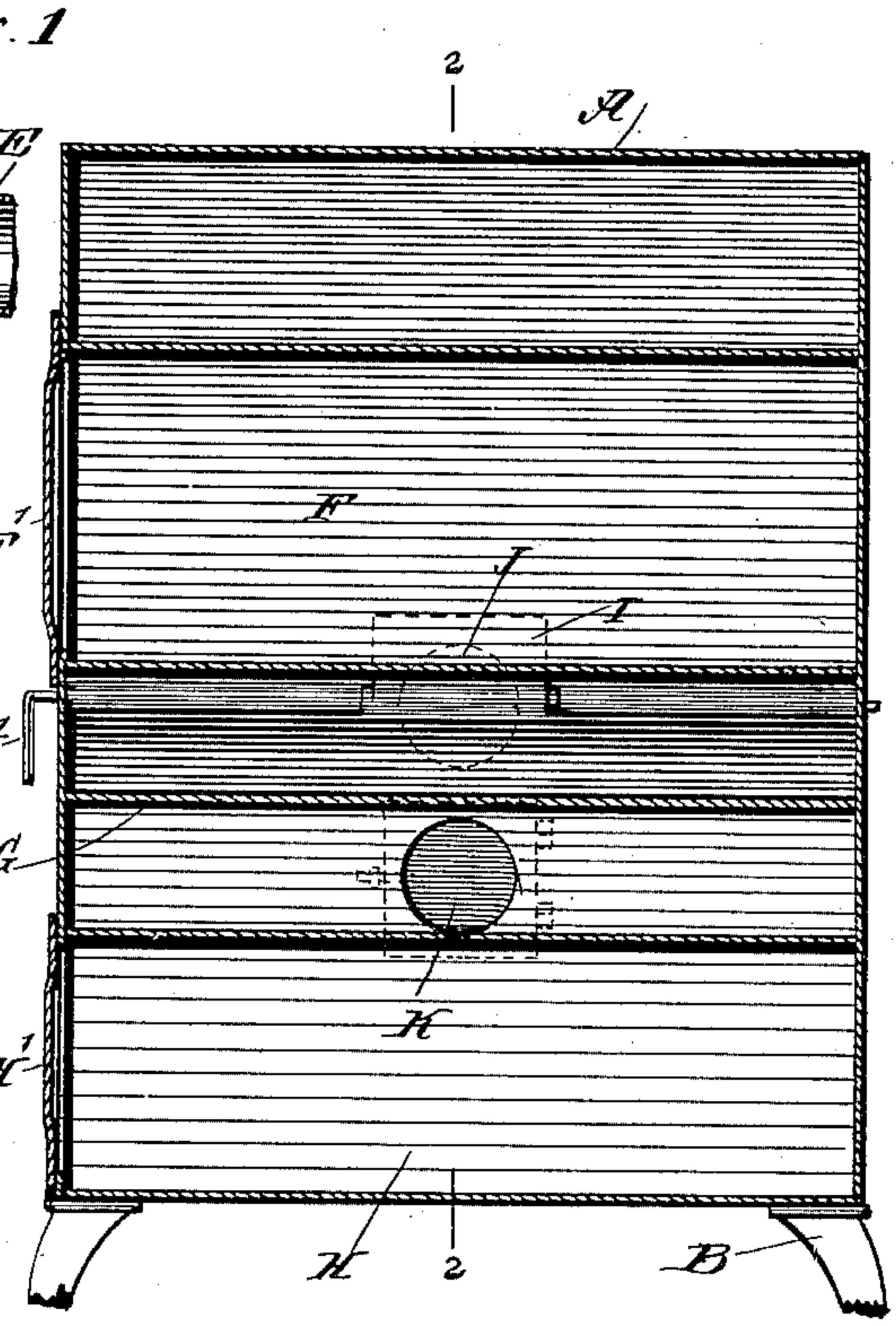


Fig. 1





WITNESSES:

Fig. 2

Fig. 3

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HEATING-DRUM.

SPECIFICATION forming part of Letters Patent No. 652,560, dated June 26, 1900.

Application filed November 10, 1899. Serial No. 736,459. (No model.)

To all whom it may concern:

Be it known that I, ROBERT LEE HOLLINGSWORTH, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented a new and Improved Heating-Drum, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved heating drum or oven arranged for connection with an ordinary heating-stove or kitchen-range and designed for heating and baking purposes, for warming dishes and the like, and without additional expense for fuel.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of my invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the improvement shown interposed between a kitchen-range and a chimney, the latter being in section. Fig. 2 is an enlarged sectional side elevation of the improvement on the line 2 2 in Fig. 3, and Fig. 3 is a transverse section of the same on the line 3 3 in Fig. 2.

The improved heating-drum is provided with a shell A, mounted on legs B and interposed between a heating-stove or a kitchen-range C and a chimney D, as illustrated in Fig. 1. The outlet-flue E of the stove or range C connects with the inlet of the shell A, at the upper end of the front thereof, as is plainly illustrated in Figs. 1 and 2, and in the shell A, below the said inlet, is arranged a baking-oven F, extending from one side of the shell to the other and having a door F′ at the front of the shell. Below the baking-oven F is arranged a transverse partition G, slightly inclined in a rearward and upward direction, as is plainly shown in Fig. 2, the partition terminating a suitable distance from the front end of the shell, said partition being located a distance above the top of a chamber H, arranged in the bottom of the shell A. The chamber H extends throughout the length and width of the shell and is provided at one side of the shell with a door H′ to give access to the chamber for placing dishes in the chamber to be warmed or for removing the warmed dishes from the chamber.

In the rear portion of the partition G is arranged an opening adapted to be closed by a damper I, held on a shaft extending to one side of the shell, a handle I′ being at one outer end of the shaft to permit the operator to swing the damper into a closed position, as shown in Fig. 2, or upward and forward into an open position, as indicated in dotted lines in Fig. 3.

Directly below the damper I, in the rear end of the shell, is arranged an outlet for the smoke and gases, and which outlet is connected by a pipe J with the chimney D, and below said outlet is arranged a cleaning-door K for giving access to the top of the chamber H to allow of removing any soot that may accumulate on the top of the chamber. When the damper I is in a closed position, the smoke and gases passing from the heating-stove or range C by way of the pipe I into the upper end of the shell pass over the top of the oven F, then around the rear end of the same and under the oven, above the partition G, to then travel around the front end of the partition, and under the partition and over the top of the chamber H, to finally reach and pass the outlet and the pipe J, which conducts the smoke and gases to the chimney D. Thus it will be seen that the smoke and gases while passing through the shell A thoroughly heat the oven F to permit of baking bread or other articles of food in said oven whenever desired. It will be seen that the chamber H is heated by the outgoing smoke and gases, so that dishes or like articles placed in the chamber become heated or warmed.

When it is desired to decrease the heat in the oven F and that in the chamber H, then the operator swings the damper I into an open position, so that the smoke and gases after passing over the rear end of the oven F pass directly through the open damper to the pipe J and to the chimney D.

The device is very simple and durable in construction and can be readily connected with an ordinary heating-stove or range to fully utilize the heat contained in the smoke and gases escaping from the heating-stove or range.

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

1. A heating-drum, comprising a shell having an inlet near the top of its front end and an outlet at the rear end, an oven in said shell and extending from one side thereof to the other, the top of the oven being below the said inlet and the rear end of the oven being spaced from the rear wall of the shell, a transverse partition extending from the rear wall of the shell above the outlet and passing forward below the bottom of the oven, and terminating short of the front end of the shell, and a heating-chamber in the lower part of the shell below the partition and outlet, substantially as described.

2. A heating-drum, comprising a shell having an inlet near the top of its front end and an outlet at the rear end, an oven in said shell and extending from one side thereof to the other, a door being at one side of the shell, the top of the oven being below the said inlet and the rear end being a distance from the rear end of the shell, a transverse partition below the bottom of the oven and terminating at its front end a distance from the front end of the shell, a damper at the rear end of said partition above the outlet of the shell, and a dish-warming chamber in the lower part of the shell and extending throughout the length and width thereof, the top of the shell being a distance below the said partition and said outlet, as set forth.

3. A heating-drum, comprising a shell having an inlet near the top of its front end and an outlet at the rear end, an oven in said shell and extending from one side thereof to the other, the top of said oven being below the inlet and the rear end being spaced from the rear end of the shell, a door for said oven at one side of the shell, a transverse partition below the bottom of the oven and terminating short of the front end of the shell, the said partition being provided with an opening in its rear portion, a damper above the outlet of the shell and adapted to close said opening in the partition, and a cleaning-door below the outlet of the shell to give access to the space below the partition, substantially as described.

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Witnesses:
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