(No Model.) 2 Sheets—Sheet 1.

P. W. ELLIOTT.

COOKING STOVE, RANGE, &c.

No. 551,116. Patented Dec. 10, 1895.

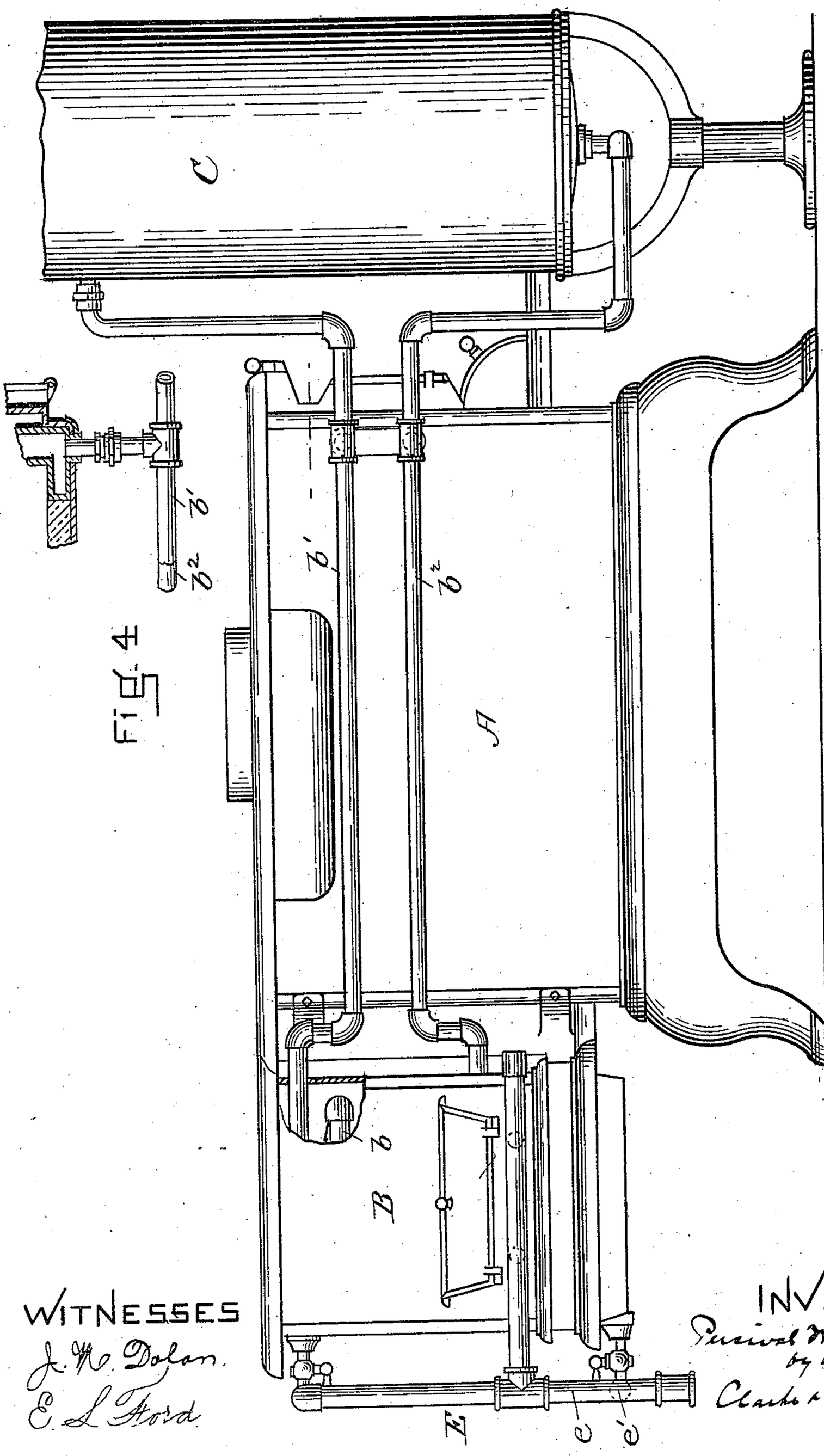

FIG. 4.

FIG. 1.

WITNESSES

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E. L. Ford.

INVENTOR

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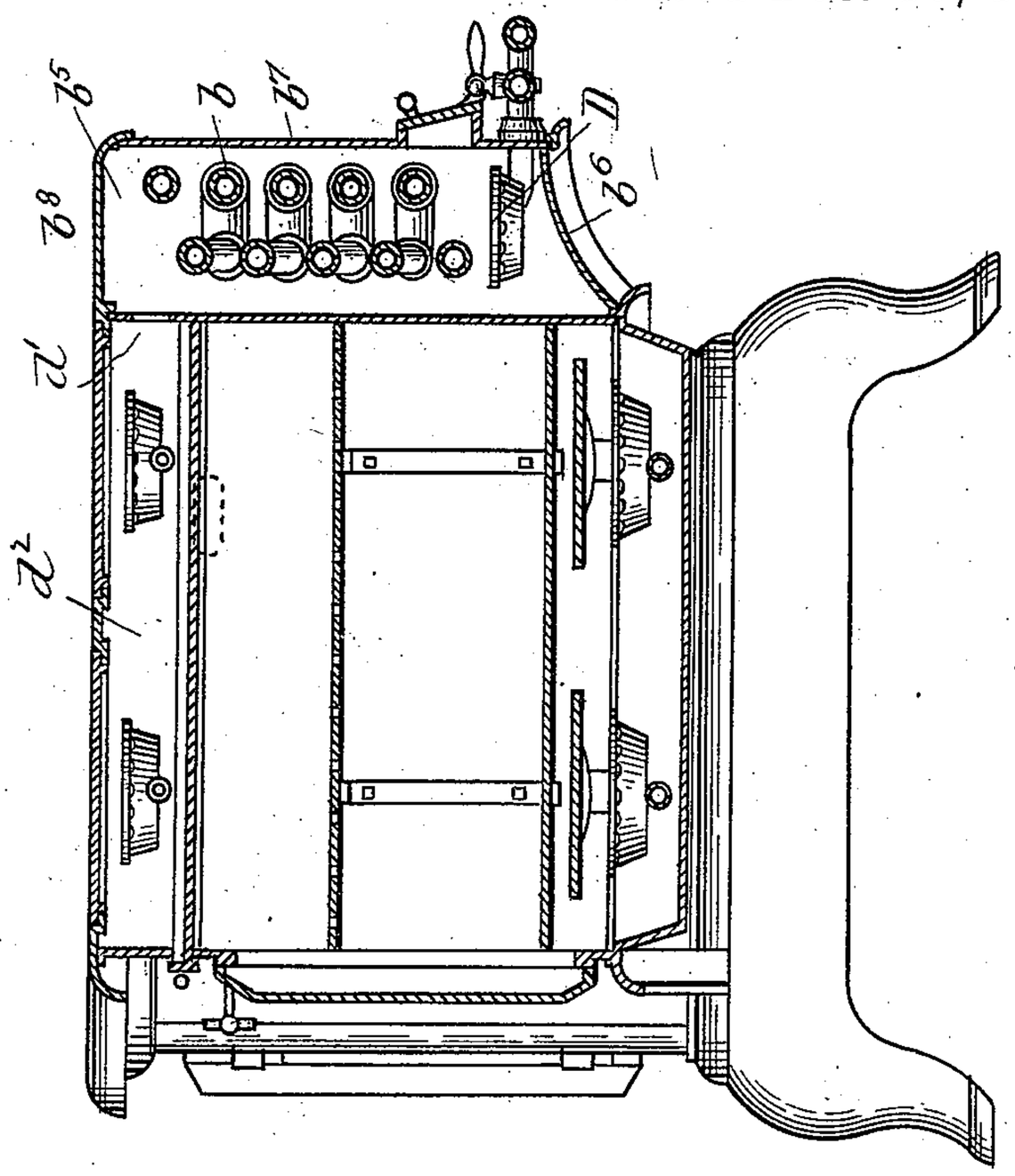

Fig. 3.

Fig. 2.

WITNESSES
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UNITED STATES PATENT OFFICE.

PERCIVAL W. ELLIOTT, OF READING, ASSIGNOR TO THE HIGHLAND FOUNDRY COMPANY, OF BOSTON, MASSACHUSETTS.

COOKING STOVE, RANGE, &c.

SPECIFICATION forming part of Letters Patent No. 551,116, dated December 10, 1895.

Application filed May 31, 1895. Serial No. 551,075. (No model.)

To all whom it may concern:

Be it known that I, PERCIVAL W. ELLIOTT, a citizen of the United States, residing at Reading, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Cooking Stoves, Ranges, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention is an improvement upon that described in my application for Letters Patent of the United States filed July 30, 1894, Serial No. 518,911; and it consists in the arrangement and organization of a coal stove or range, a gas-stove combined with the coal-stove for joint or separate use, as described in my said application, and a hot-water tank or boiler connected with the water-heating system of the coal-stove and with a water-heating system of the gas-stove, whereby either or both may be used for heating the water of the tank.

In the drawings, Figure 1 is a view in rear elevation of my composite or double stove and the said hot-water tank or boiler. Fig. 2 is a view in plan representing a part of the coal-burning section of the stove and the gas-burning section, a part of the top plate being removed to show the construction underneath. Fig. 3 is a view in vertical cross-section upon the dotted line of Fig. 2. Fig. 4 is cross-section on the dotted line of Fig. 1.

A represents the coal-burning section of the stove, B the gas-burning section thereof, and C the hot-water tank or boiler. It is connected with the coil or other heating device in the fire-pot of the coal-burning section by means of the pipes c c', (shown by dotted lines in Fig. 1,) in which may be cocks for shutting out or disconnecting this section of the stove, and it is connected with the coil b in the gas-burning section of the stove by the pipes b' b^2, which may also have cocks for forming or breaking the connection with the said coil b. The coil b is contained in the heating-chamber b^3 at the rear of the main gas-burning section, (see Figs. 2 and 3,) the said chamber being formed by plates b^4 b^5, attached to the back of the main gas-burning section of the stove and covered by the extension b^6 of the main top plate, in which there may be one or more small pot-holes b^7. (See Fig. 2.) The coil is preferably rectangular in shape, and the gas-burner D is arranged beneath it, and the heat from the burning gas rises upward about the coil, circulation being established, when desired, through the flue d' in the back plate of the gas-burning section (see Figs. 2 and 3) to the direct up-flue of the coal-burning section, following the course of the arrows (see Fig. 2)—that is, connecting with the burner-section d^2 and the flue d^3, which connects it with the flue d^4 of the coal-burning section. The burners D are connected with the gas-supply pipe E by extending downward the section e of the gas-supply pipe and running from it a lateral branch e', (see Fig. 2,) from which extend short pipes e^2 to the burners, each pipe having a regulating-cock. It will be seen that by this means the water of the boiler may be heated by either the coal-burning section of the stove or by the gas-burning section, or by both, and that when the gas-burning section of the stove alone is used the water of the boiler may be hot or not, as desired.

The coal-burning section is connected with the boiler, as shown in Figs. 1 and 4, by the pipes c c', which connect with the pipes B' B^2 near the front end of the coal-burning section.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

In a composite stove, the combination of the boiler C, the coal burning section A, the gas burning section B, the chamber b^5 at the back of the section B, formed of the plates b^4 b^5 and the extension b^6, the burner D situated in said chamber, the coil b also situated in said chamber, the pipes b' b^2 connecting the coil with the boiler C and the pipes c c' from the coal burning section A, connected with the pipes b' b^2 and containing cocks whereby the water may be shut off from the coal burning section if desired, as and for the purposes described.

PERCIVAL W. ELLIOTT.

Witnesses:
F. F. RAYMOND, 2d,
J. M. DOLAN.