

No. 877,976.

PATENTED FEB. 4, 1908.

M. E. WOOD.
STOVE ATTACHMENT.
APPLICATION FILED MAR. 15, 1905.

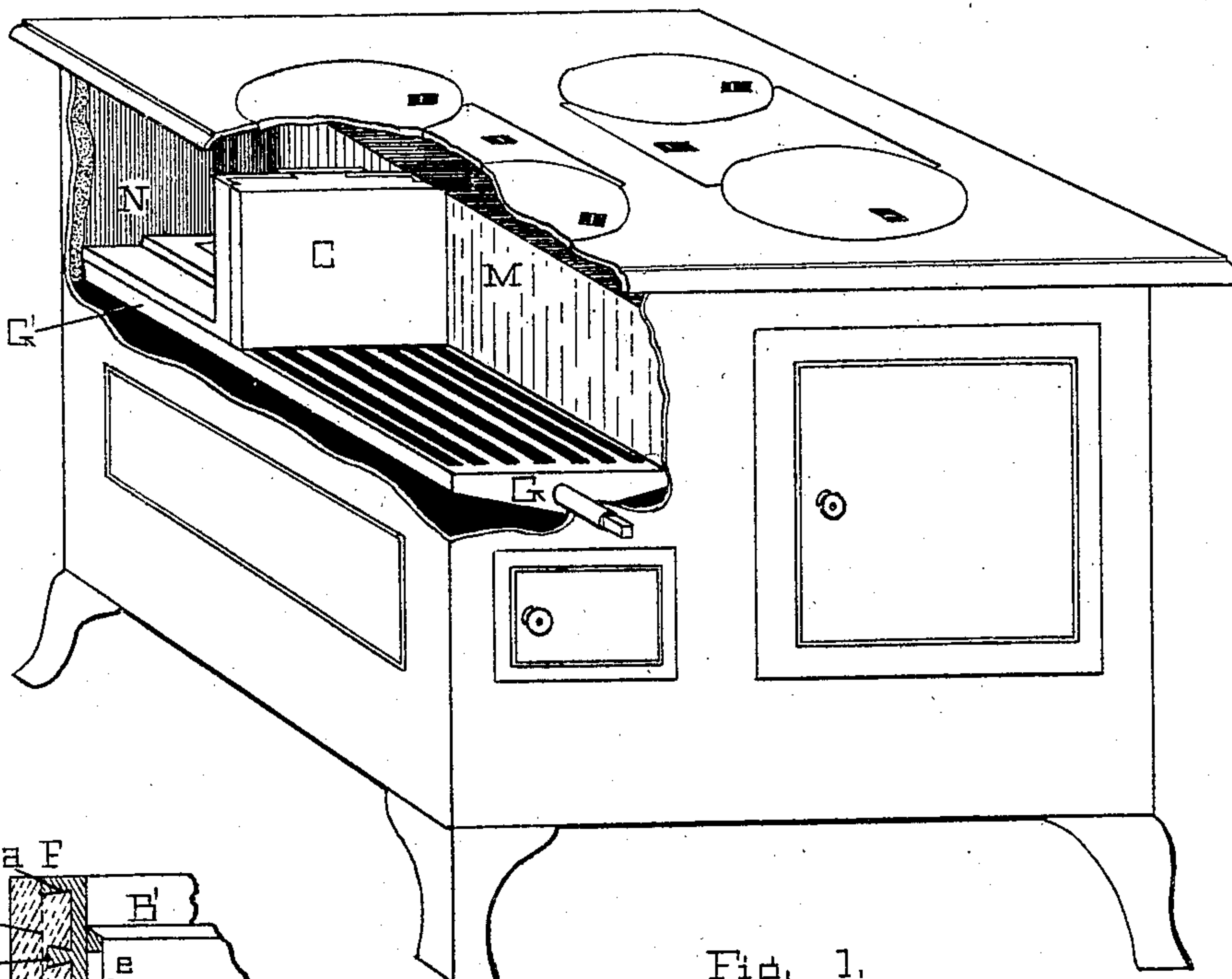


Fig. 1.

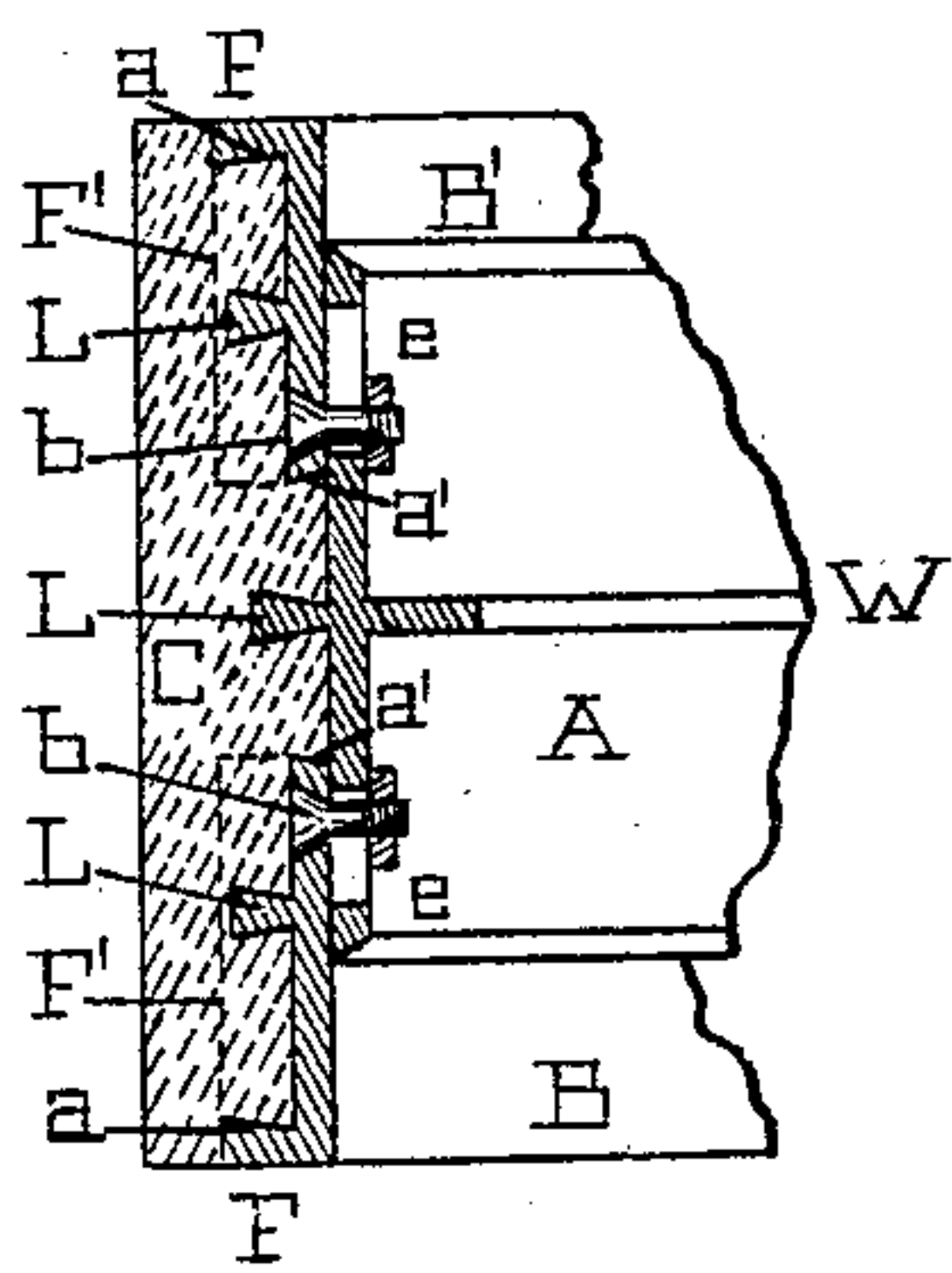


Fig. 3.

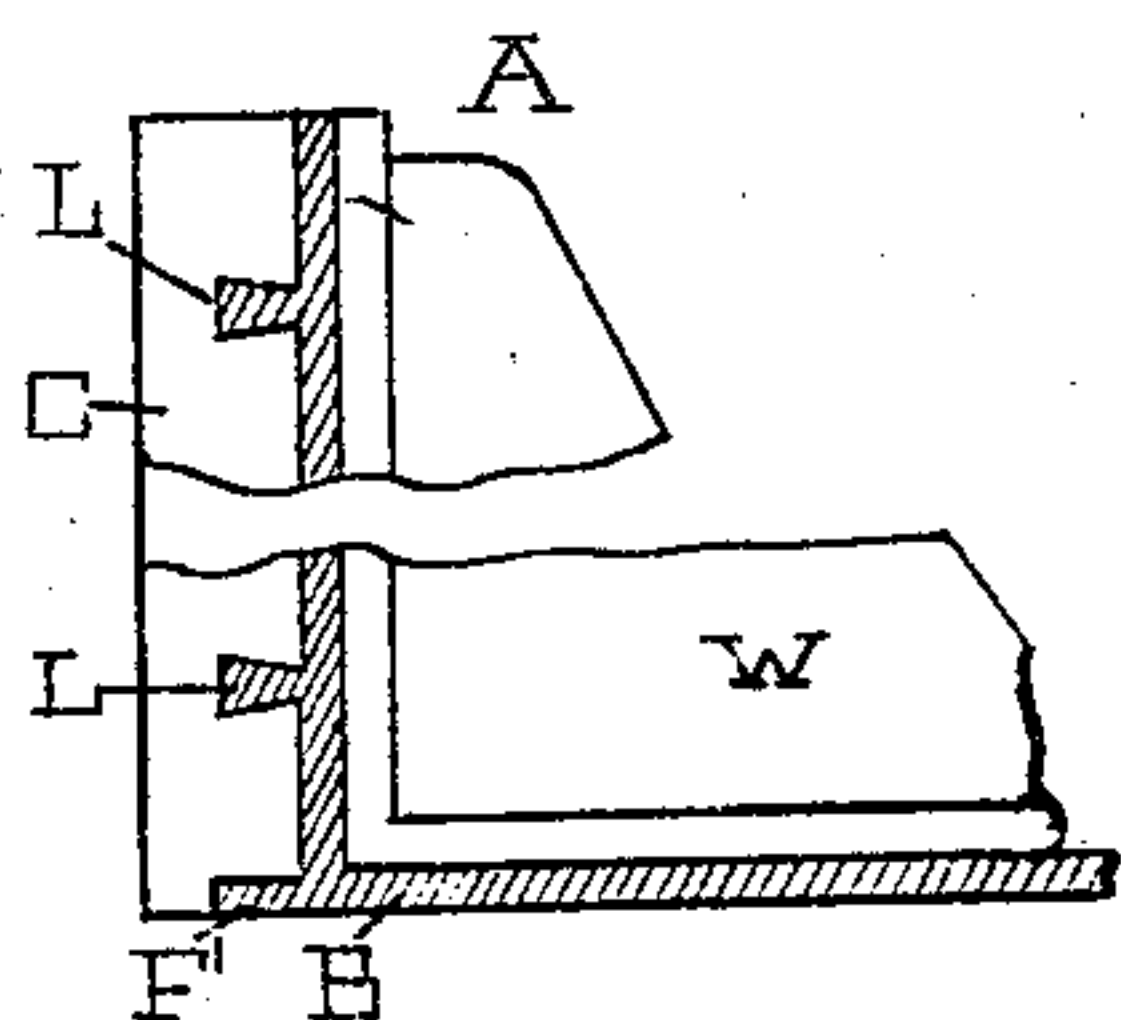


Fig. 4.

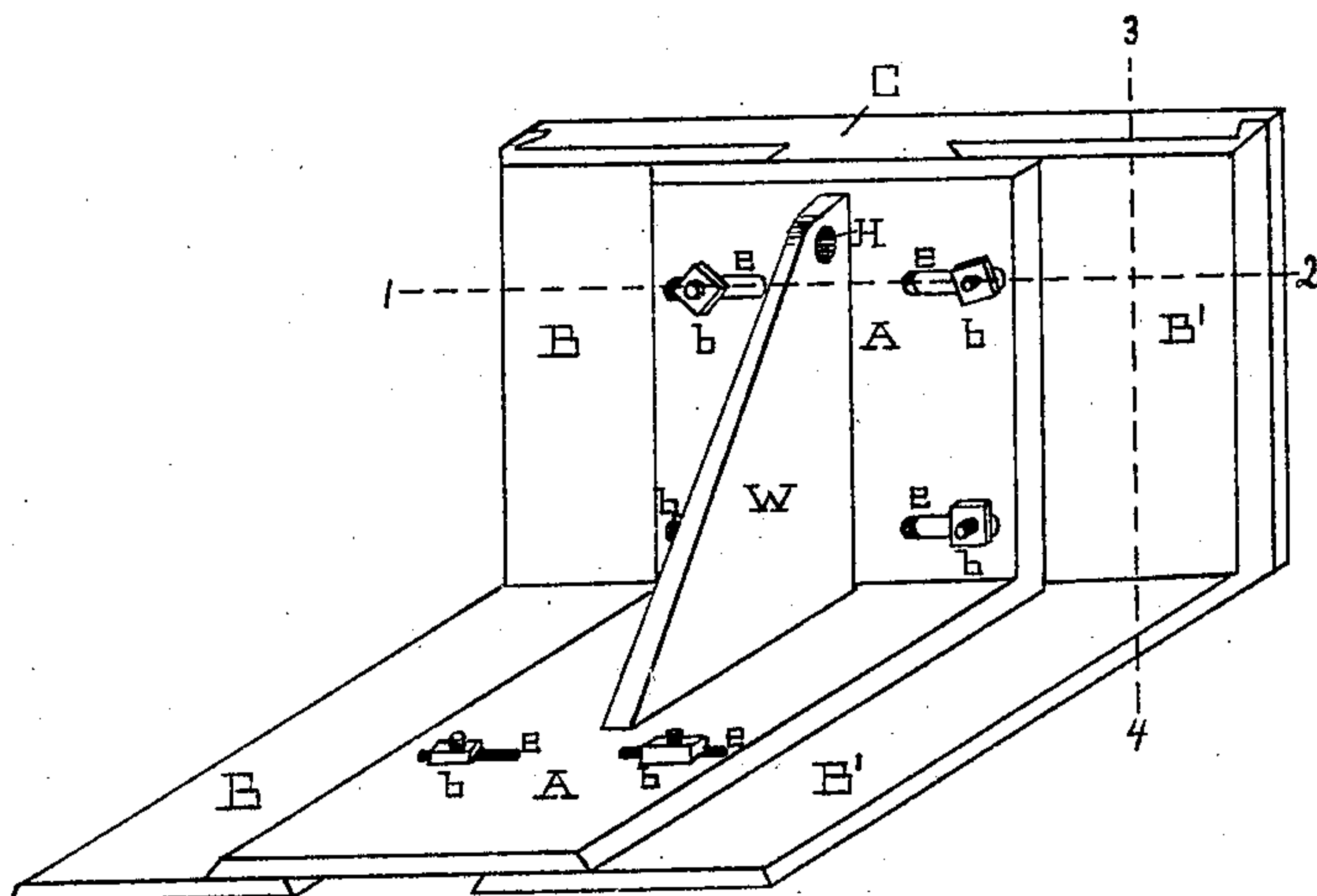


Fig. 2.

Witnesses:
Helen F. Pourske
Frank J. Wood

Inventor.
Marie E. Wood.

UNITED STATES PATENT OFFICE.

MARIE E. WOOD, OF NEW YORK, N. Y.

STOVE ATTACHMENT.

No. 877,976.

Specification of Letters Patent.

Patented Feb. 4, 1908.

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To all whom it may concern:

Be it known that I, MARIE E. WOOD, of Brooklyn borough, New York, county of Kings, and State of New York, have invented a new and useful Stove Attachment, of which the following is a specification.

The object of my invention is to provide a removable grate covering and partition, that is adapted to be placed in the furnace compartment of an ordinary stove or range thereby covering a portion of the grates and reducing the size of the furnace so that when the maximum capacity of the stove is not required a smaller fire can be burned to better advantage and with greater economy of fuel. I accomplish this object with the device illustrated in the accompanying drawing in which—

Figure 1 shows the device placed in the furnace of an ordinary cook stove. Fig. 2 is a perspective view of the device showing some of its constructive details. Fig. 3 is a horizontal section cut on the dotted line 1, 2, Fig. 2, and Fig. 4 is a vertical section cut on the dotted line 3, 4. Fig. 2.

Similar letters refer to similar parts throughout the several views.

In Fig. 1. C' represents the device placed in the furnace of a stove, the outside walls and top of the stove being cut away in order to show the interior. M. is the side wall of the furnace and N. the back wall and G. is the grate.

In Fig. 2. the angle plate A. which I will call the central angle plate, overlaps the two angle plates B. B.' (which I will call the side angle plates) and is secured to the same by the bolts b. b. which project through the slots e. e. the heads of which fit in counter sunk holes in the angle plates B and B.'; the slots e. e. permit of an adjustment to a width that will suit different sizes of furnaces. C. is a cement or clay facing. H. is a hole in the web W. into which a hook may be inserted and the entire device lifted bodily out of the furnace, and when desired be replaced. W. is a web to strengthen and prevent the warping of the central angle plate A.

In Fig. 3. the lugs L. L. are cast integral with, and on the vertical faces of the angle plates A. B. B.' and are formed—in order to firmly hold the clay C.—with an increasing diameter which enlarges the further they project from the angle plate. The angle projections F. F'. on the vertical edges of the side angle plates B. B'. are made so

that their adjacent faces a. a. in reference to each other will be a form of the well known "dove tail" joint which holds the clay C. more firmly; the adjacent vertical edges a'. a'. of the angle plates B. B'. also form a "dove tail" joint with the clay, C. The angle projection F'. Fig. 4. at the bottom edge of the vertical faces of the side angle plates, B. B'. and the dotted lines F'. F'. Fig. 3. is a protection to the lower edge of the clay facing, C.

In adjusting the device to a stove the bolts b. b. are loosened, the three angle plates are placed in the furnace of the stove in reference to each other as shown in Fig. 2. The side angle plates B and B' are then adjusted to the width of the furnace, then the bolts b. b. are made tight; the plates are then lifted from the furnace and a coating of some fire resisting cement, such as fire clay and fire brick dust mixed with water, is placed on the faces of the angle plates as shown at C. the coating covering the lugs, L. and fitting into the "dove tail" recesses formed by the faces and edges a a' a'. After the water dries out the hook is inserted in the hole, H. and the device is placed in the furnace so that the bottom faces of the angle plates cover that portion of the grates represented by G'. Fig. 1. the fire then being made on the portion not covered.

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

1. A stove attachment comprising a central angle plate provided with transverse slots and with a strengthening web having an opening, side angle plates provided with holes or openings adapted to register with the slots in the central angle plate, the vertical outside faces of the side angle plates being provided at their side edges with outwardly extending flanges having inner angular sides adapted to form a dove-tail recess, a facing of cement covering the vertical faces of the angle plates and fitting in the dove-tail recess, and bolts passing through the slots and the holes in the plates to retain the parts in adjusted positions.

2. A stove attachment comprising a central angle plate provided with transverse slots and with a strengthening web having an opening, side angle plates provided with holes or openings adapted to register with the slots in the central angle plate, the vertical outside faces of the side angle plates being provided at their side edges with out-

wardly extending flanges having inner angular sides adapted to form a dove-tail recess, a facing of cement covering the vertical faces of the angle plates and fitting in the dove-tail recess, lugs with enlarged ends projecting from the face of said side angle plates into and securing said facing of cement, and bolts passing through the slots and the holes in the plates to retain the parts in adjusted positions.

3. A stove attachment comprising a central angle plate provided with transverse slots and with a strengthening web having an opening, side angle plates provided with holes or openings adapted to register with the slots in the central angle plate, the vertical outside faces of the side angle plates being

provided at their side edges with outwardly extending flanges having inner angular sides adapted to form a dove-tail recess, a facing of cement covering the vertical faces of the angle plates and fitting in the dove-tail recess, lugs with enlarged ends projecting from the face of said side angle plates into and securing said facing of cement, flanges projecting from the bottom of the vertical outside faces of said side angle plates, and bolts passing through the slots and the holes in the plates to retain the parts in adjusted positions.

MARIE E. WOOD.

Witnesses:

HELEN T. ROURKE,
FRANK J. WOOD.