No. 684,372. Patented Oct. 8, 1901.

M. R. HEATHERLY & R. MALONEY.

COOKING STOVE.

(Application filed Feb. 12, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

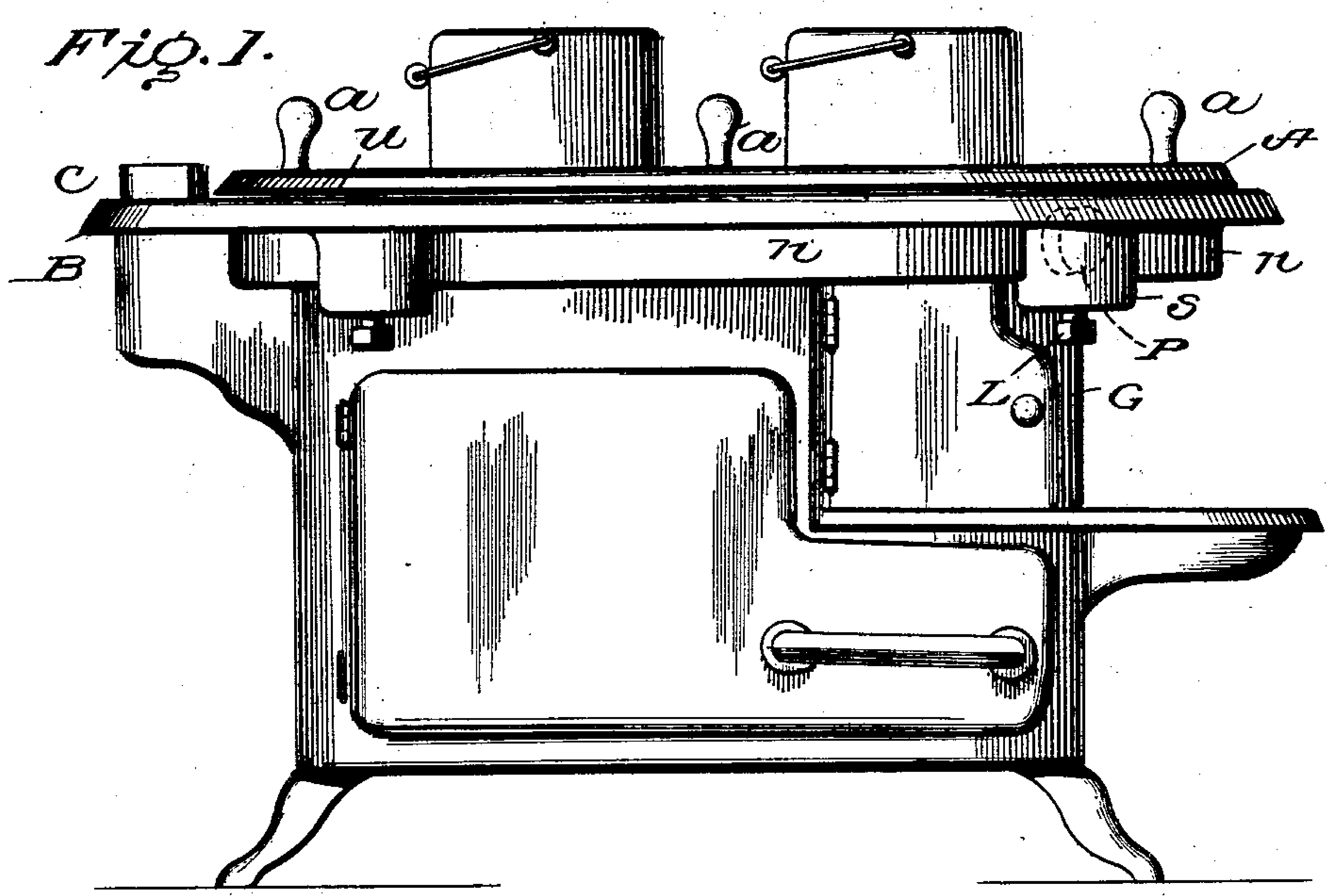


Fig. 3.

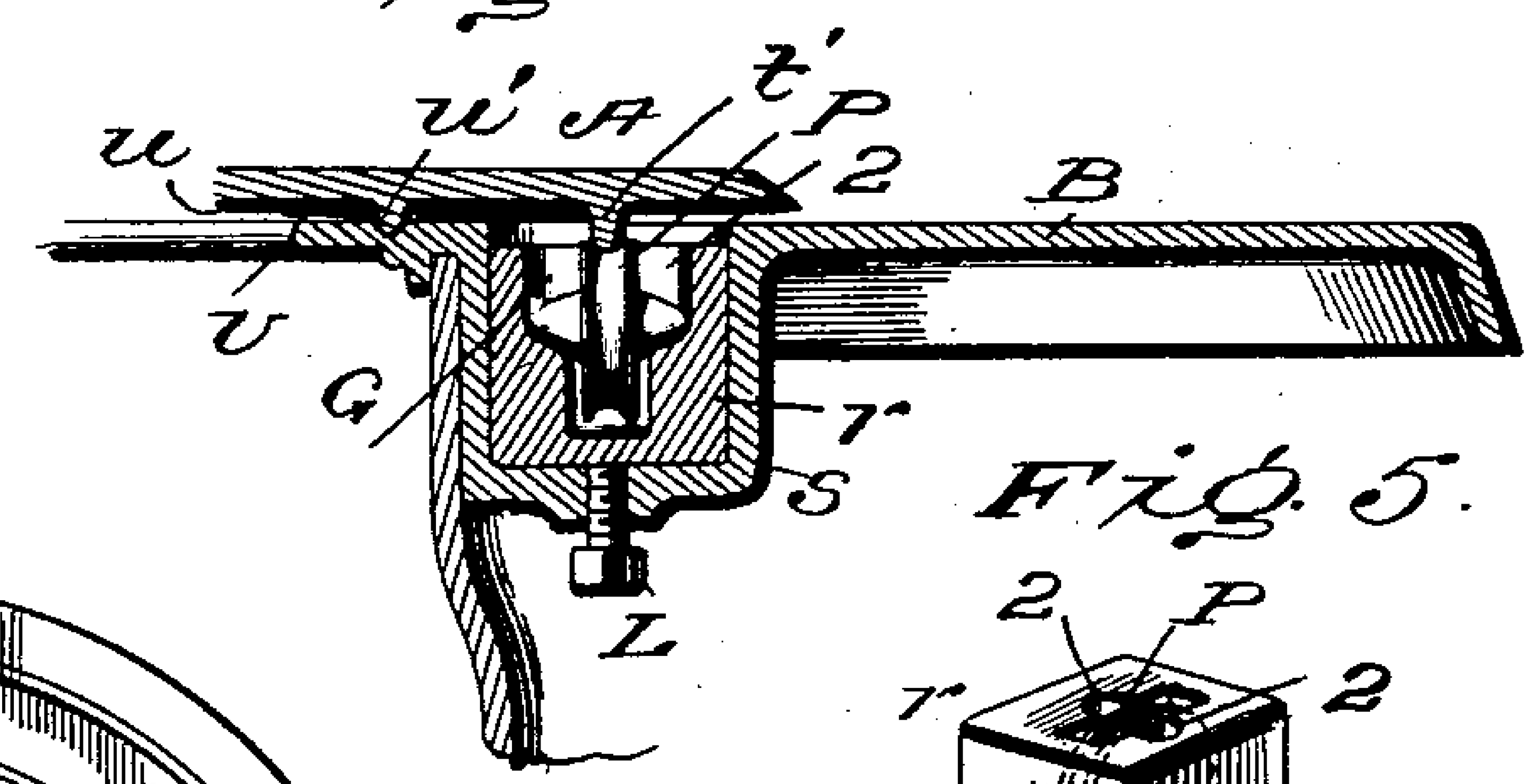


Fig. 4.

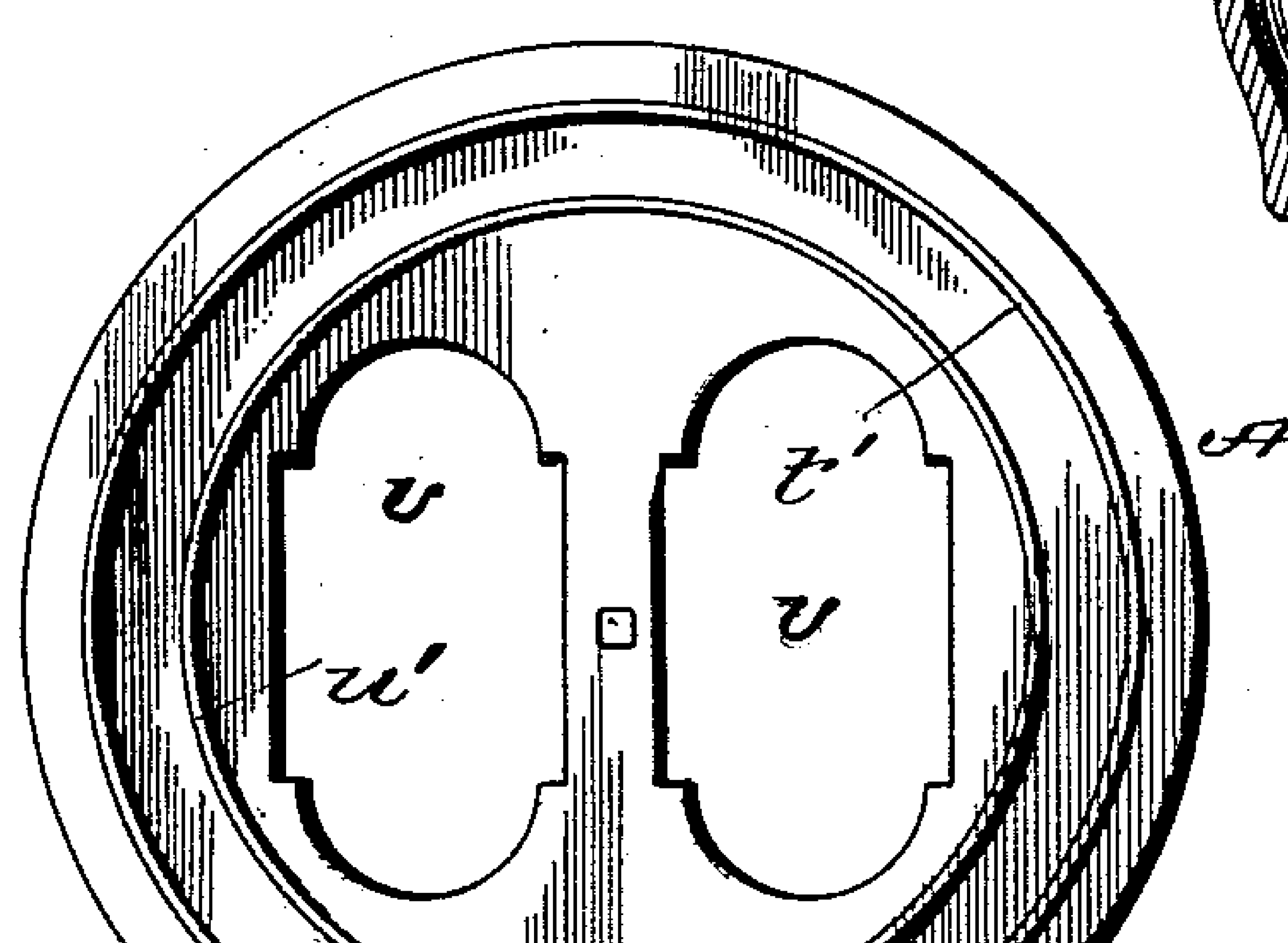


Fig. 5.

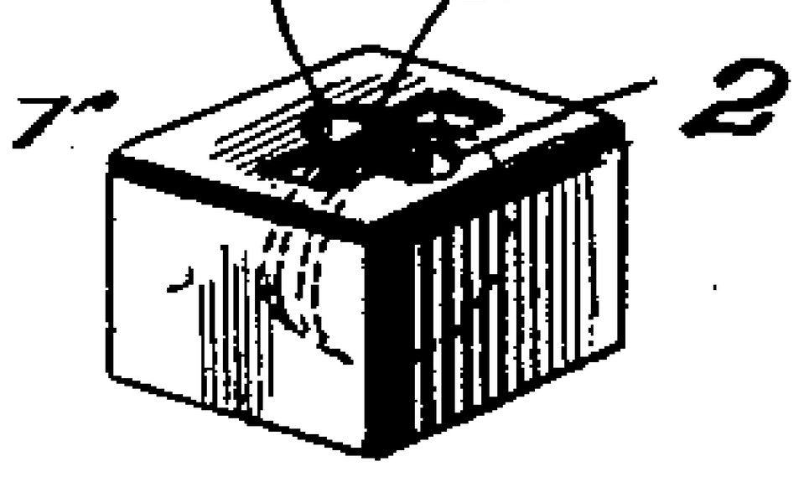
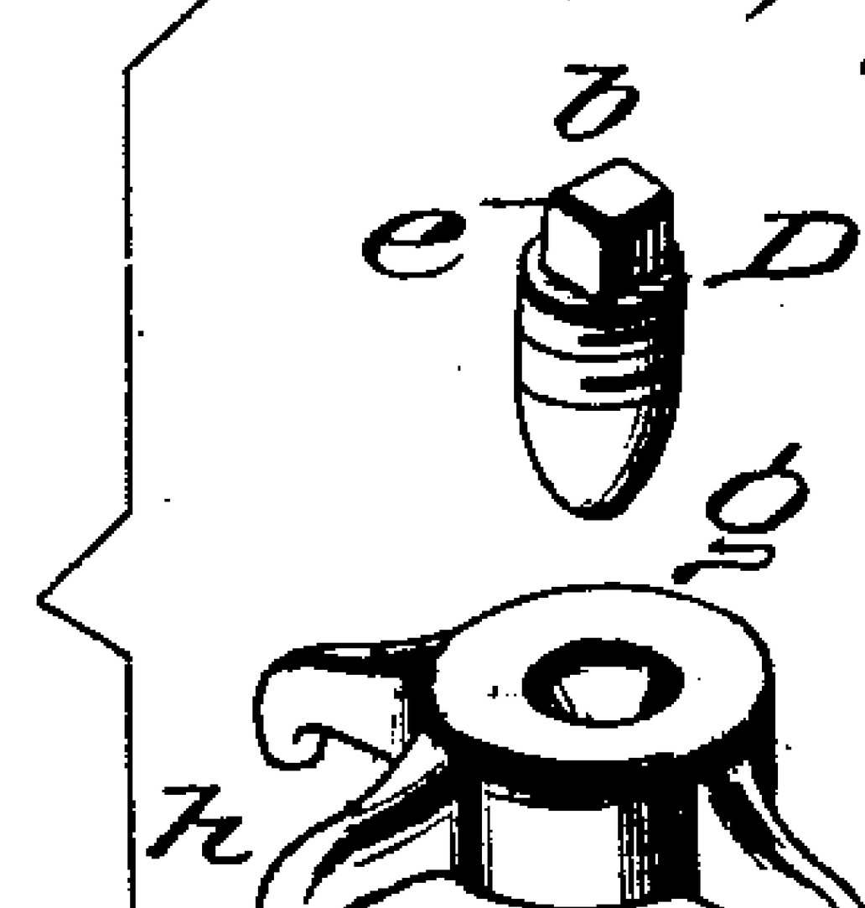


Fig. 6.



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No. 684,372. Patented Oct. 8, 1901.

M. R. HEATHERLY & R. MALONEY.

COOKING STOVE.

(Application filed Feb. 12, 1901.)

(No Model.) 2 Sheets—Sheet 2.

FIG. 2.

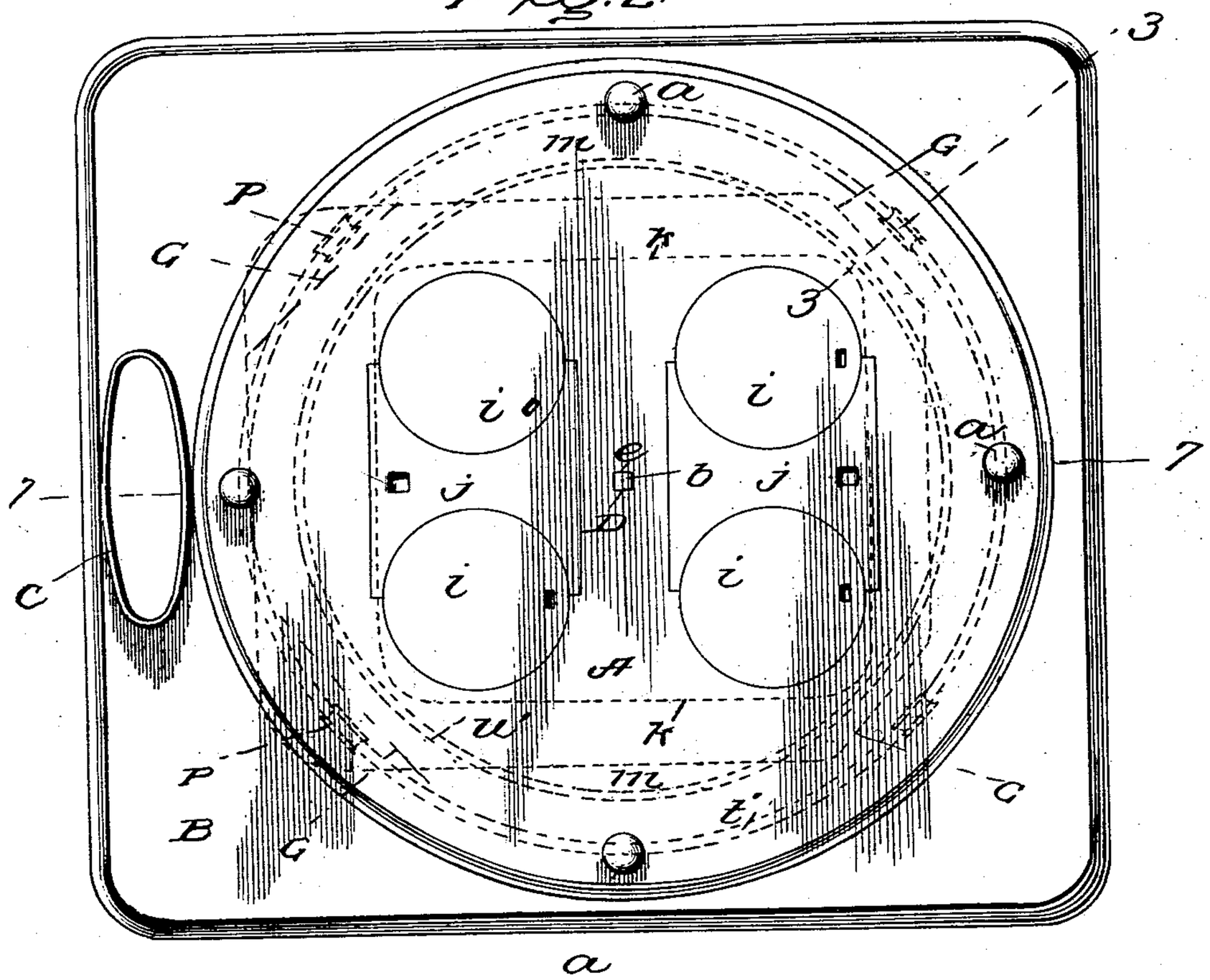
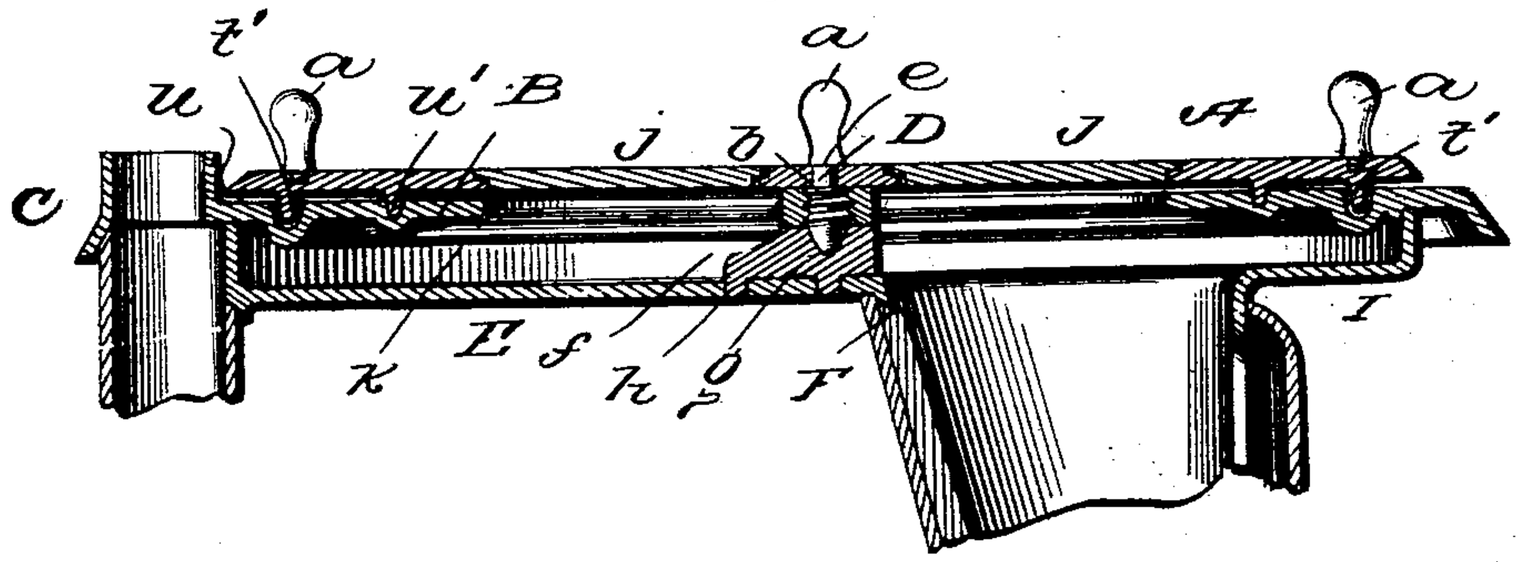


FIG. 7.



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UNITED STATES PATENT OFFICE.

MITCHELL R. HEATHERLY AND ROBERT MALONEY, OF MUNDELL, ARKANSAS; SAID HEATHERLY ASSIGNOR OF TWO-THIRDS OF HIS RIGHT TO JESSE MALONEY AND JOSEPH B. REYNOLDS.

COOKING-STOVE.

SPECIFICATION forming part of Letters Patent No. 684,372, dated October 8, 1901.

Application filed February 12, 1901. Serial No. 47,061. (No model.)

To all whom it may concern:

Be it known that we, MITCHELL R. HEATHERLY and ROBERT MALONEY, citizens of the United States, residing at Mundell, in the county of Carroll and State of Arkansas, have invented certain new and useful Improvements in Cooking-Stoves; and we do hereby 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.

This invention relates to cooking-stoves, and has for its object to overcome certain very objectionable features incident to stoves of this type as generally constructed and to provide a neat, simple, cheap, durable, convenient, and easily-manipulated means, whereby the positions of the vessels on the stove may be changed at will from one point on the stove to another without lifting them, so as to place them over a hotter or cooler part of the stove—for instance, from the front part of the stove to the rear, from the rear to the front, or from either side to the other—so as to obviate the necessity of reaching over vessels to other vessels or traveling around the stove to gain access to the said vessels by bringing any vessel on the opposite side of the stove within easy reach of the most convenient approach to the stove by a convenient, quick, and easy touch of the hand, and, further, to allow of placing stoves for use with greater convenience, especially where space is limited; and with these ends in view we accomplish the same by constructing a revolving top with a simple, durable, and easily-adjusted detachable pivot-bearing, all of which is hereinafter fully set forth.

The invention consists of details, as will be hereinafter fully set forth.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are necessarily susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a stove embodying the invention. Fig. 2 is a top plan view thereof. Fig. 3 is a detail section on the line 3 3 of Fig. 2. Fig. 4 is a view of the revoluble top inverted. Fig. 5 is a perspective view of a roller-bearing. Fig. 6 is a detail perspective view of the pivot-bearing, the parts being separated. Fig. 7 is a detail section of the upper portion of the stove on the line 7 7 of Fig. 2.

Corresponding and like parts are referred to in the following description and drawings hereto attached by the same reference characters.

A represents the revolving top or vessel-carrier, B the base-plate for the revolving top, and C the stovepipe, which, as illustrated, is set back so as to give room for the revolving top. The revolving top is provided with handles *a* for the manipulation thereof when changing the position of the vessels on the stove by revolution of the said top. The revolving top A has its center supported by the central pivot D, the upper section *b* of which has a square or flat-sided shank *e*, fitted in an opening of the same configuration in the top A. The section *b* immediately beneath the said revolving top is provided with threads and receives a nut *f*. The lower end of the pivot D is tapered, as shown, and fits in a seat of the same configuration in the top of the base-block *g*, which forms the lower section of the said pivot-bearing. This base-block *g* may be secured detachably to the covering E of the oven by means of flat-sided shanks *h*, which lie in openings of the same configuration in the covering E. The forward portion of this covering is represented resting on the top of the back F of the fire-box, and if the said covering should not extend forward to a point vertical to the center of the revolving top A it may be carried forward to such point or the base-block *g* may be secured to a cross-bar attached to the walls of the stove or applied to the base-plate B, said cross-bar lying

any depth desired between the base-plate B and the covering of the oven. It will be observed that the nut *f* is adjustable and may be moved up on the threaded shank, so as to properly adjust and support the revolving top A at its center.

The base-plate B is substantially the ordinary stove-top with the removable parts dispensed with in its center and such changes being made as are necessary to adapt it for use with the revolving top A. The revolving top A, as shown in Fig. 2, is represented with its caps *i* and parts *j* in place, and the dotted lines *k* indicate the opening in the base-plate B, and the circular dotted lines *u'* and *t'* indicate the tracks on which the top A revolves. This revolving top will work on a stove with the ordinary opening described in the base-plate B, or the walls of the stove may be expanded just beneath the base-plate B, so as to set any size circular opening desired in the base-plate B, as indicated by the dotted circle I. It will be observed that in changing the position of the vessels on the stove by rotating the revolving plate A the outer parts of the vessels pass above the base-plate B at points *m*, which are the spaces between the usual opening in the base-plate B and the circular opening in the same, which may be formed therein, as described by the dotted circle I, when the walls of the stove are expanded. As shown in Fig. 1, *n* represents a bulge or expansion of the walls, which may be effected on both sides of the stove and at the ends, which will allow of getting any desired circle or circular opening in the base-plate B inside the walls of the stove, which will allow of using vessels whose bottoms project any depth desired beneath the revolving top or vessel-carrier A. This expansion *n*, as will be observed, may be effected just beneath the base-plate B and above the doors, so as not to interfere with the general construction of the stove.

The roller P, which forms a bearing for the outer part of the revolving top A, has a bearing in the block *r*, set in the box *s*, formed in the base-plate B, adjacent to the corners G of the stove. These roller-supports, preferably four in number, are most advantageously located outside of the walls of the stove. The roller P has tapered and rounded pivots, and the box *s* is of sufficient size to allow of the roller moving freely and of sufficient depth beneath the roller to allow for wear of the pivots. Grooves 2 are formed in opposite sides of the block *r* to receive the journals of the roller and open through the top of the block to admit of dropping the roller into place from above. The block *r* has its top surface a little below the top surface of the base-plate B and the box *s* thereof, as shown, so as to allow of adjusting the said block *r* to compensate for wear on the journals of the roller and the bearings therefor by means of the set-screw L.

At any desired distance from the outer edge of the revolving top A there may be formed a circular flange *t'*, which may have vertical and parallel sides and rounded at its lower edge to work in a groove of its own configuration in the base-plate B, and the wheel P is so adjusted that its top or bearing for the flange *t'* of the revolving top A as to hold the lower or bearing edge of said flange *t'* at any desired distance above the bottom of the groove in which it revolves to allow for wear on the pivot D and to allow of the free and unobstructed revolution of the revolving top, which also stands, as shown at *u*, a little above the base-plate B, so as to allow for wear on the pivots and to avoid binding. The flange and groove *u'* adjacent to the cap or vessel-opening *v* is substantially that described in the flange *t* and its connecting-groove and is intended to prevent the fire and heat from penetrating to the outer pivots. The outer edge of the revolving top or vessel-carrier A may extend out to such a distance as to cover the box *s* and hide its contents. There are four roller-bearings indicated, but more may be used if the stove is very large.

The invention is not dependent upon any particular construction of any of the parts herein shown and described, as all the parts may be varied in construction. Neither does our invention depend upon any particular number of pivots and their connecting parts which go to make up the pivoted bearing for the revolving top may be varied in number, which is sometimes necessary. Therefore we desire it to be understood that we do not confine ourselves to any particular construction or to any particular number of pivots, our invention consisting, broadly, of an improvement in stoves adapted to allow of changing the position of the vessels on the stove from one point to another on the stove by a circular, revolving, or rotating motion without lifting said vessels.

It will be observed that the pivots herein shown are so shaped as to take up wear and wear true, so as to form a true guide for the revolving top. It will be further observed that the pivots used may be provided with detachable pivot-bearings and that all the parts that go to make up the pivoted bearing for the revolving top are both detachable and adjustable, so that they may be replaced at any time and may be adjusted, as shown and described, to support and regulate the revolving top for clear sailing.

Having thus described the invention, what is claimed as new is—

1. In a stove, and in combination with a revoluble vessel-carrier placed upon the top thereof, a pivot-bearing between the central portion of said vessel-carrier and the body of the stove and comprising a shank and a block, the shank having its upper part loosely fitted to the vessel-carrier so as to turn therewith and having its lower end tapering and

fitted in a depression in the top side of the block, and a nut threaded upon the shank and forming a support for the central portion of the vessel-carrier, substantially as set forth.

2. In a stove, and in combination with a revoluble vessel-carrier, blocks fitted in boxes provided in the stove, rollers journaled to said blocks and forming a support for the vessel-carrier, and means for adjusting the blocks vertically, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

MITCHELL R. HEATHERLY. [L. S.]
ROBERT MALONEY. [L. S.]

Witnesses:
WALTER C. FAWVER,
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