

No. 699,603.

Patented May 6, 1902.

F. B. WHITLOCK.

STOVE TOP.

(Application filed July 20, 1901.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

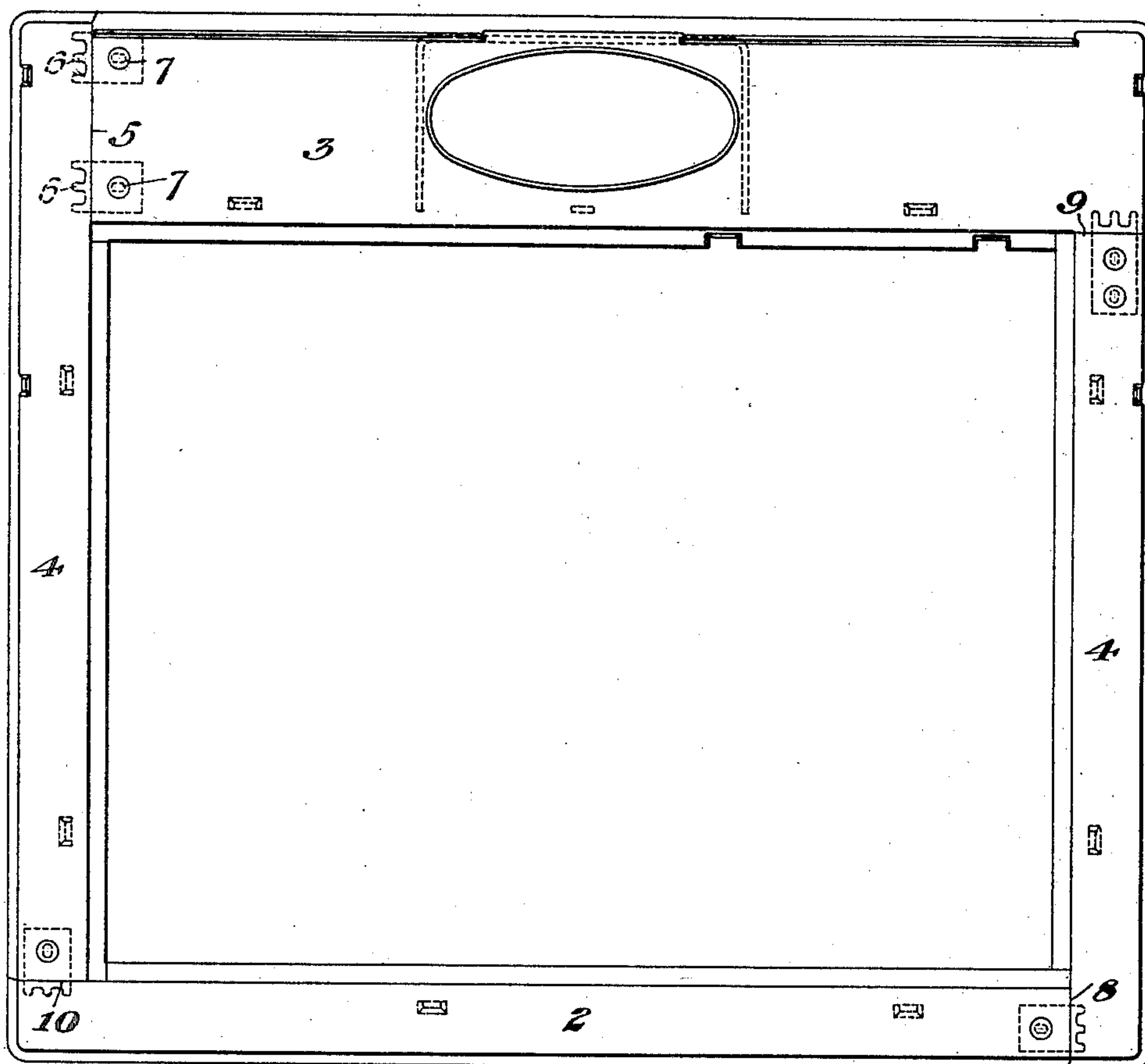


Fig. 2.

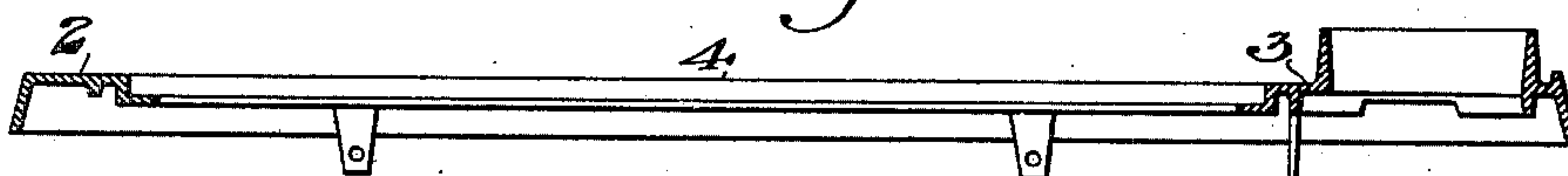


Fig. 3.

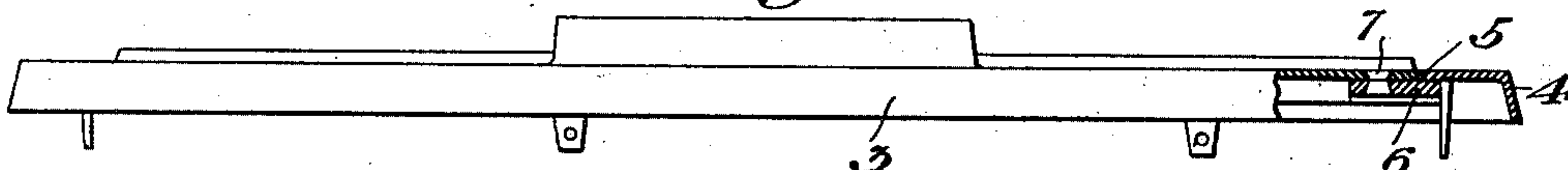
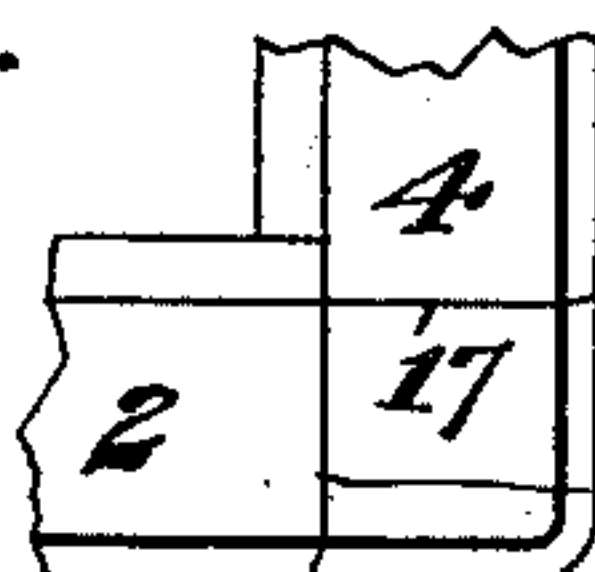


Fig. 7.



WITNESSES

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Fig. 4.

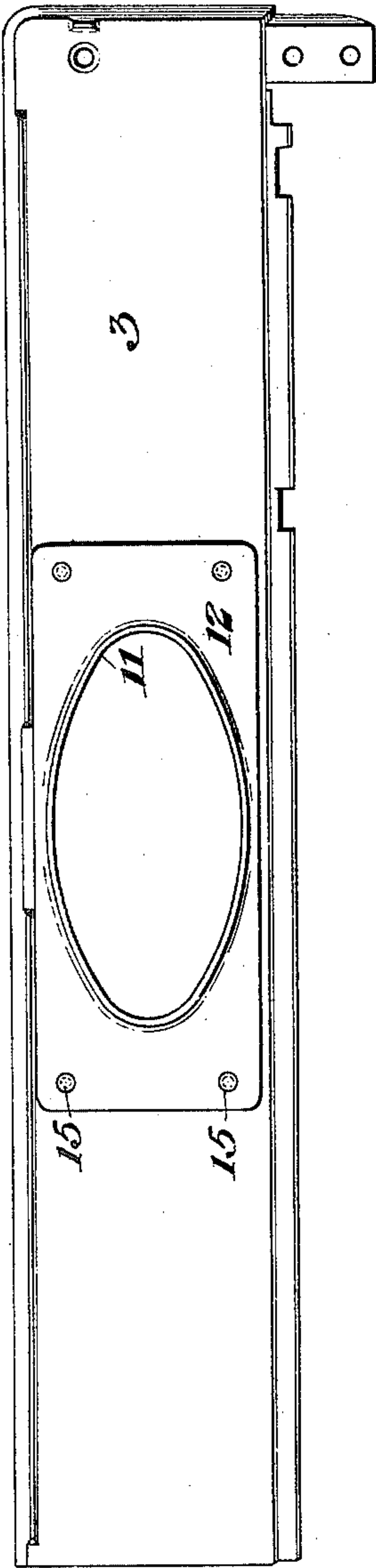


Fig. 5.

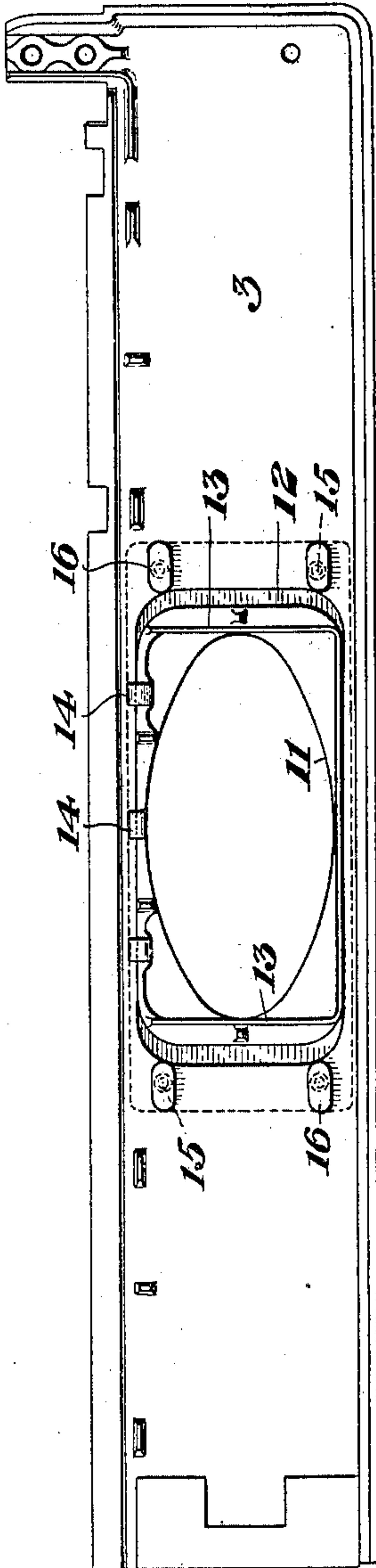
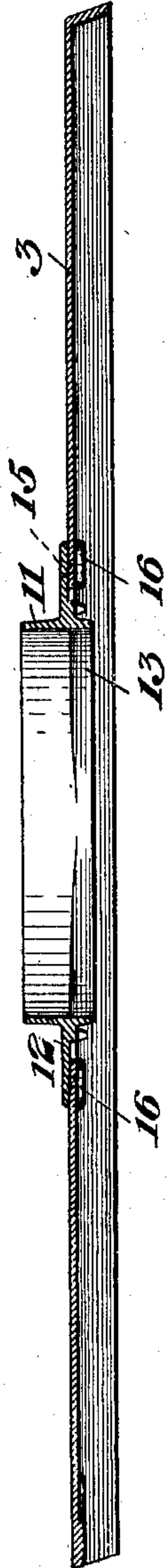


Fig. 6.



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UNITED STATES PATENT OFFICE.

FREDERICK B. WHITLOCK, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO THE NATIONAL MALLEABLE CASTINGS COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

STOVE-TOP.

SPECIFICATION forming part of Letters Patent No. 699,603, dated May 6, 1902.

Application filed July 20, 1901. Serial No. 69,012. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK B. WHITLOCK, of Indianapolis, county of Marion, Indiana, have invented a new and useful Stove-Top, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top plan view of a stove-top constructed in accordance with my invention. Fig. 2 is a vertical cross-section on a central line through the flue-opening. Fig. 3 is a front edge elevation, partly broken away. Figs. 4 and 5 are top and bottom plan views, respectively, on an enlarged scale, of my preferred form of back strip or collar-top. Fig. 6 is a longitudinal section of the collar-top of Fig. 4, and Fig. 7 is a broken detail view showing the preferred form of corner finish. My invention relates to the manufacture of stove-tops and is designed to provide a construction in which variations in the castings forming such tops can be easily compensated for. Heretofore in these tops the corners have been formed on the front and back strips, the side strips extending between the side edges of such front and back strips. In such cases the front and back strips have flanges extending around the corners and there are no end joints on either the front or back strip, the side strips fitting at both ends against the side portions of the front and back strips. With this construction there can be no machining or milling of the end of either the front or back strips to bring them to the proper length, and as these parts contract unequally in cooling many of them must be thrown away, as their length cannot be changed. My invention overcomes these difficulties; and it consists in making the top of pieces or strips with depending side flanges, each of which strips forms one side of the top and has an end joint at one end and a side joint at the other end, the inner flange being cut away at the latter point. By this arrangement the outer flange of each strip extends around one corner of the top and the length of every strip is readily changed at the other end to make up for the variations in shrinkage. Thus each piece of my frame has one

finished end and one plain end, the plain end of each strip being cut off as desired to make it of the proper length.

Another feature of my invention consists in forming the flue-opening of the back strip in a separate piece, which may be adjusted upon the back strip in order to centralize it or secure it at the proper point irrespective of the changing of the length of the back strip in fitting it.

In the drawings, referring to Figs. 1 to 3, inclusive, I show a stove-top having a front strip 2 and a back strip 3, together with side strips 4, these strips being formed of castings in the usual manner. One of the side strips 4 extends across the milled or ground end of the back strip or collar-top, as shown at 5, and in addition to thus regulating the length of each piece forming the top a space is afforded for a plurality of rivets at this joint. I am thus enabled to use two lips or projections 6 6, with their rivets 7, instead of the usual single-rivet connection now used at all the joints and obtain a more rigid top than formally. The other side strip 4 extends past the milled or ground end of the front strip 2, forming a joint 8, in which a single rivet and projection may be used. The end of this side strip 4 abuts against the side edge of the back strip, forming the usual joints 9, while the front end of the other side strip forms a similar joint 10 with the side edge of the front strip 2. The inner flange of each strip is of course cut away at the point where it forms a joint with the end of the next strip, and it will be noted that the outer flange on each strip extends around one corner of the finished top.

In finishing the ends of the back strip as varying amounts of metal are removed the hole for the pipe is sometimes brought out of the center. To remedy this, I provide a large hole of general rectangular shape in the middle portion of the back strip and cast the pipe-flange 11 upon a plate 12, which is larger than the hole in the back strip and is provided with a depending thickened portion 13, which surrounds the flue-opening and fits down within the hole in the back strip while allowing longitudinal adjustment within it. Holding

lips or flanges 14 may be cast integral with the plate 13 and which will engage the under face of the back strip, as shown in Fig. 5. When adjusted to the proper point, the plate
 5 is secured by rivets 15, extending through the plate and through elongated bosses 16, cast on the under side of the back plate.

In order to give the top the appearance of having uniform joints at each corner, I may
 10 form each piece or strip with a small rib, as shown at 17 in Fig. 7. This rib extends across the piece in line with the inner edge of the abutting piece, which forms a side joint 18 with it. This finish can be given to each cor-
 15 ner to present a uniform appearance.

The advantages of my invention will be apparent to those skilled in the art, since the difficulties and losses from castings which cannot be used are done away with, and each
 20 piece can be given the desired length by reason of having one end joint which can be milled or ground to adjust the length. The construction affords a more rigid top and one less liable to become loose under the expan-
 25 sion and contraction when subjected to heat. The castings are preferably of the ordinary malleable type. The adjustability of the pipe or flue flange is important, especially in my construction, as it enables this part to be cen-
 30 tered in the back strip.

Many variations may be made in the size, form, and arrangement of the parts without departing from my invention.

I claim—

35 1. A stove-top composed of metal castings, each forming one side of the top and having depending edge flanges, one flange upon each

casting extending around an outer corner of the top, the inner flange of said member being cut away at such end to form a side joint 40 with the end of the next member, the other end of each member forming an end joint with the side of the adjacent member; substantially as described.

2. A stove-top composed of metal members 45 having depending side flanges, each member forming one side of the top and having an end joint at one end and a side joint at the other end, the inner flange of each member being cut away at its side joint, and the mem- 50 bers being secured together by fastenings extending transversely to the plane of the stove-top; substantially as described.

3. A back strip for stove-tops, having an end joint at one end, and a side joint at the 55 other end, said strip having a central opening larger than the flue-opening, and a plate adjustably secured to the back strip over this hole, and containing a flue-opening; sub- 60 stantially as described.

4. A back strip, having an end joint at one end and a side joint at the other end, said strip having a large central hole, a plate adjustably secured over the hole and having a depending part adjustable within said hole, 65 said plate having a flue-opening and flange surrounding it; substantially as described.

In testimony whereof I have hereunto set my hand.

FREDERICK B. WHITLOCK.

Witnesses:

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 FRANCIS J. A. SULLIVAN.