

June 19, 1923.

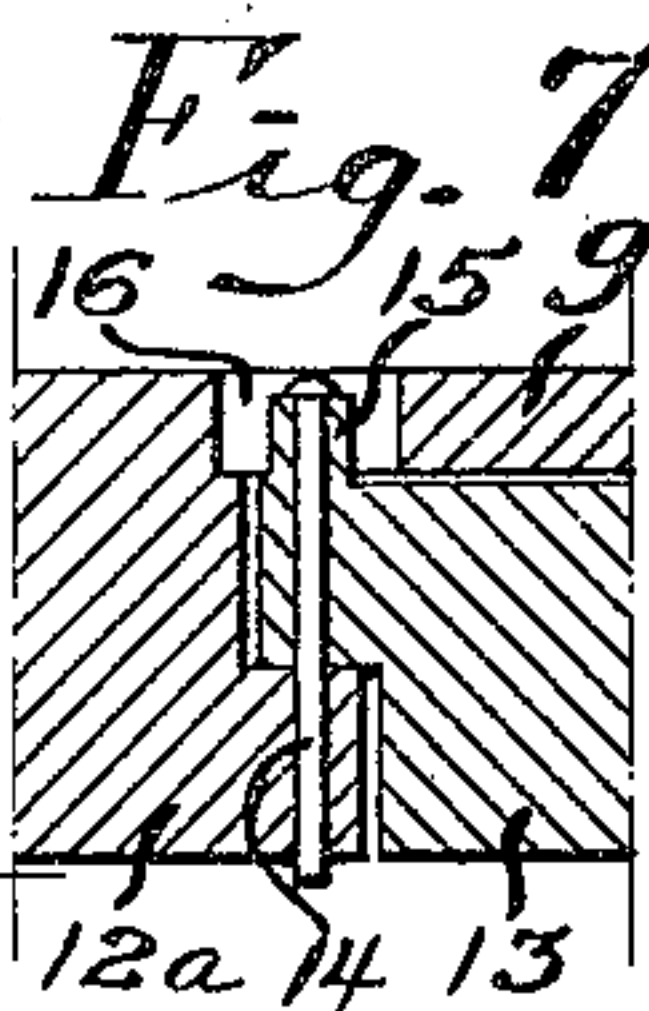
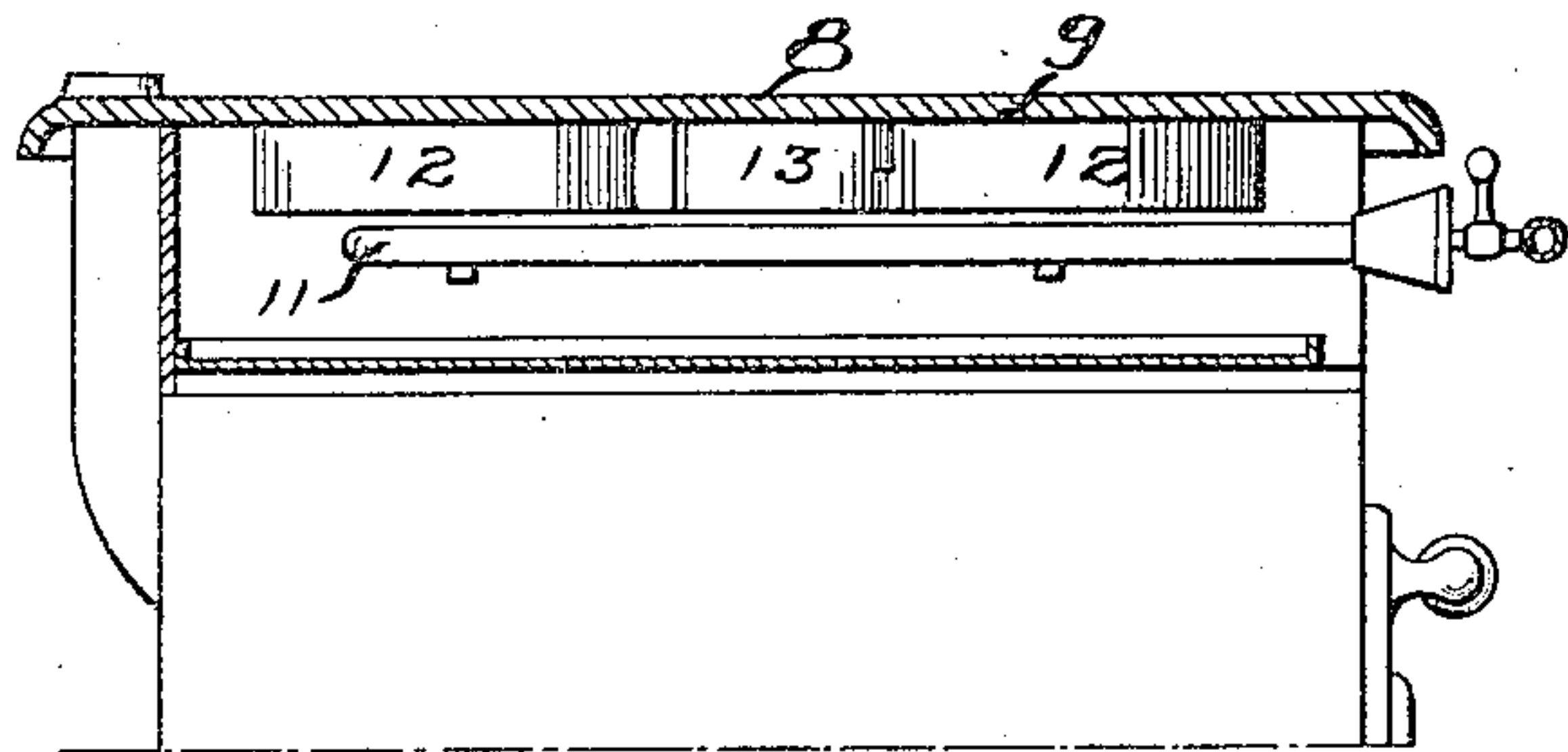
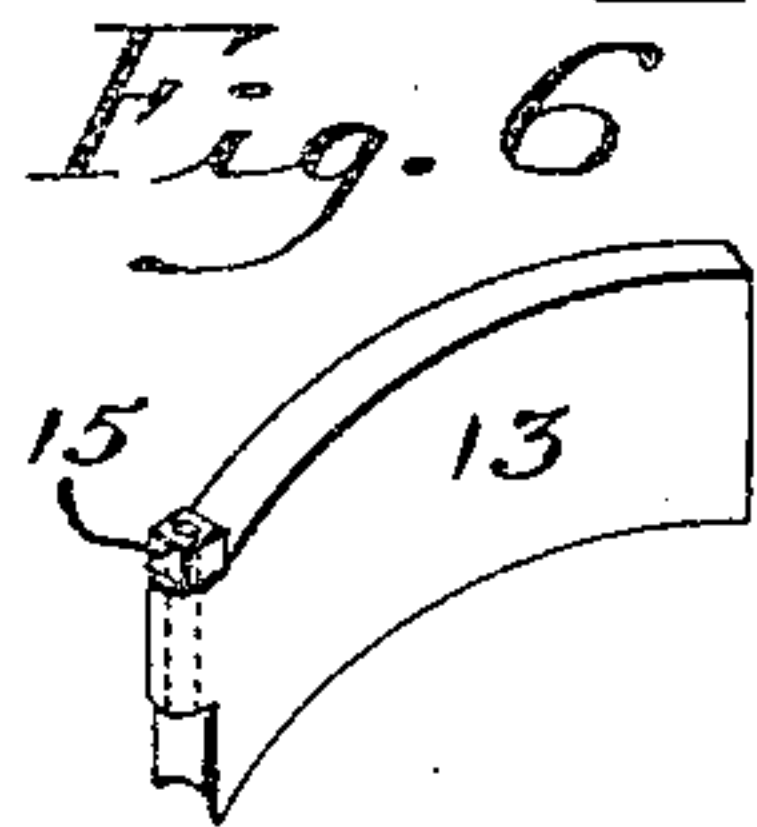
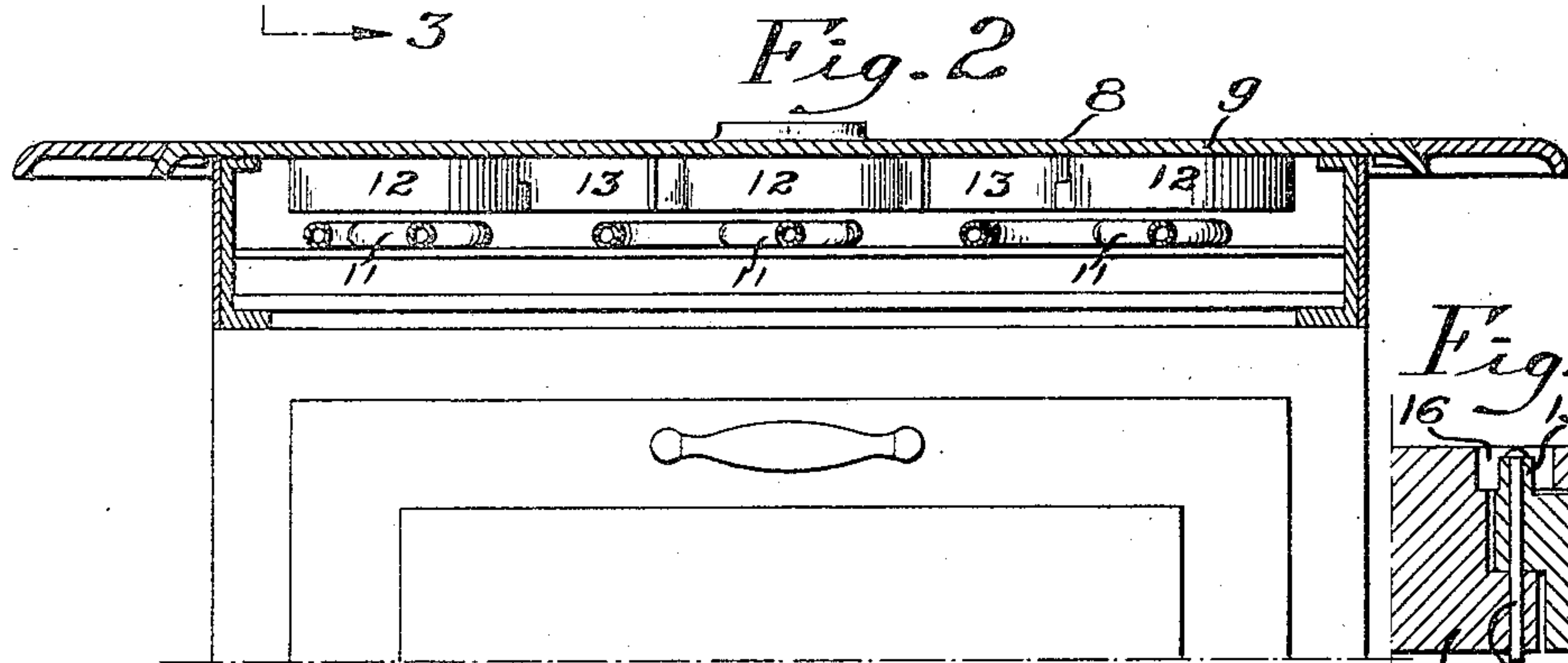
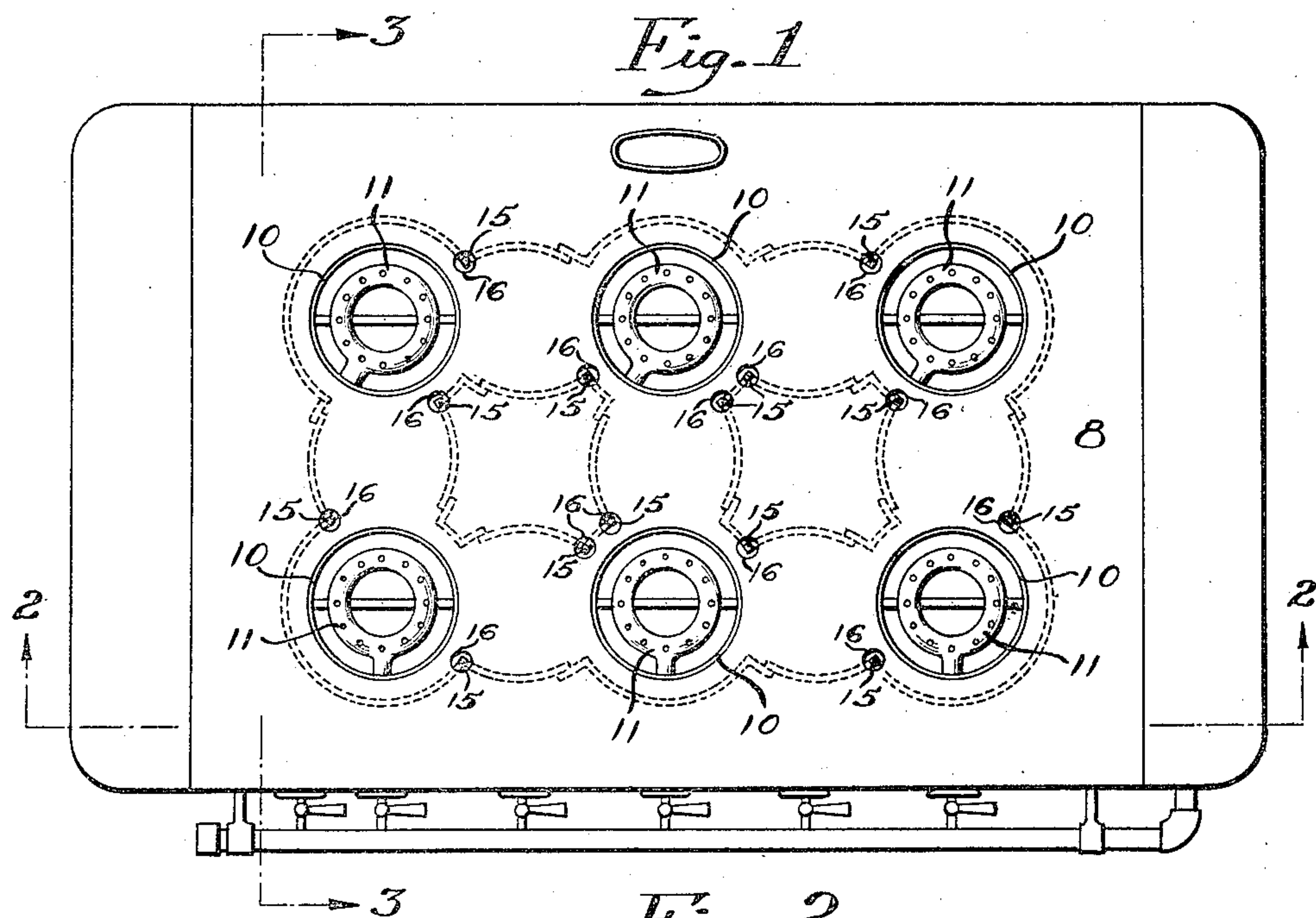
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C. E. JOHNSON

STOVE TOP

Filed March 1, 1921

2 Sheets-Sheet 1



Witnesses,  
Spencer W. Megonegal,  
Reginald B. Clapper

Inventor,  
Charles E. Johnson,  
by Joshua R. H. Tott  
his Attorney.

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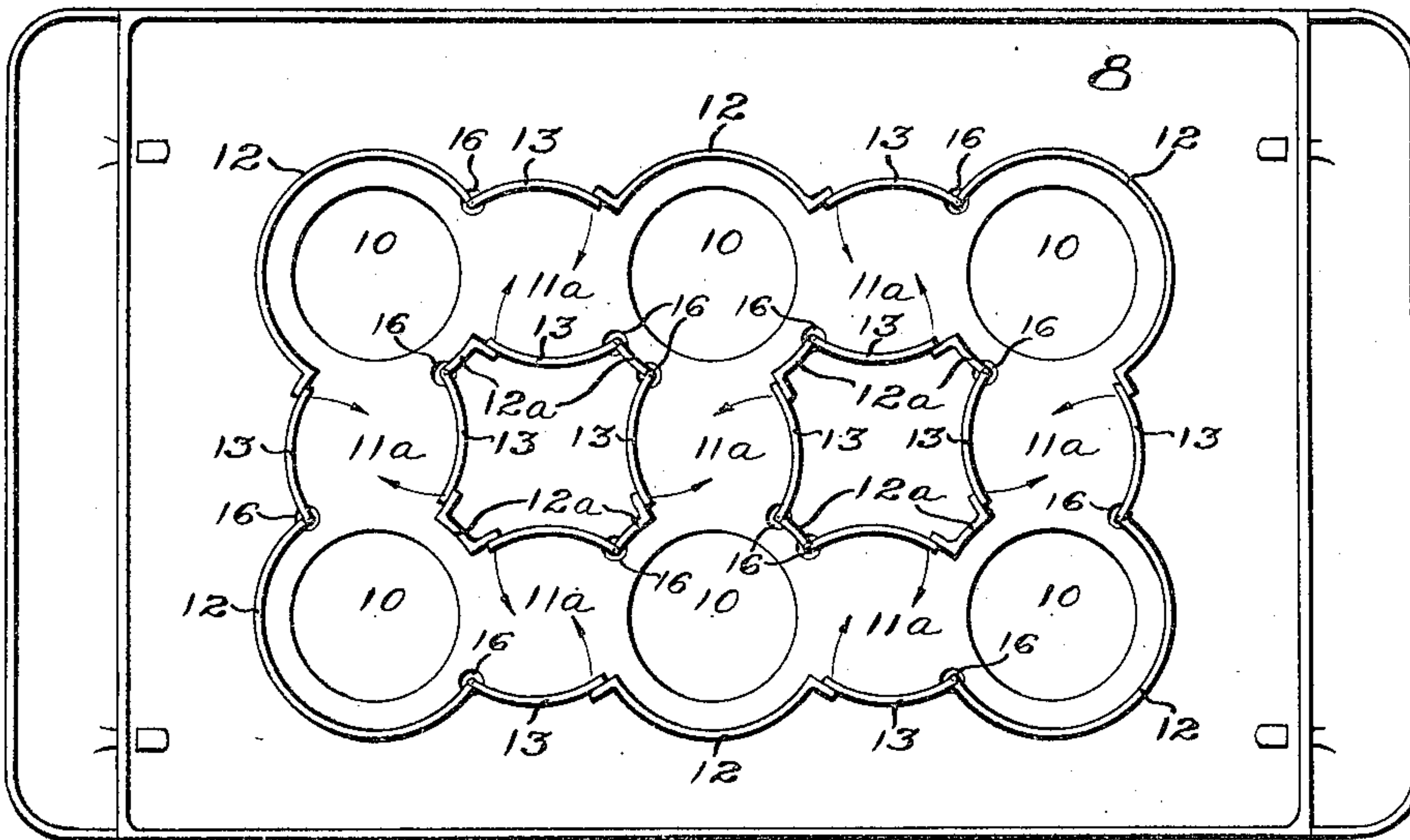
C. E. JOHNSON

STOVE TOP

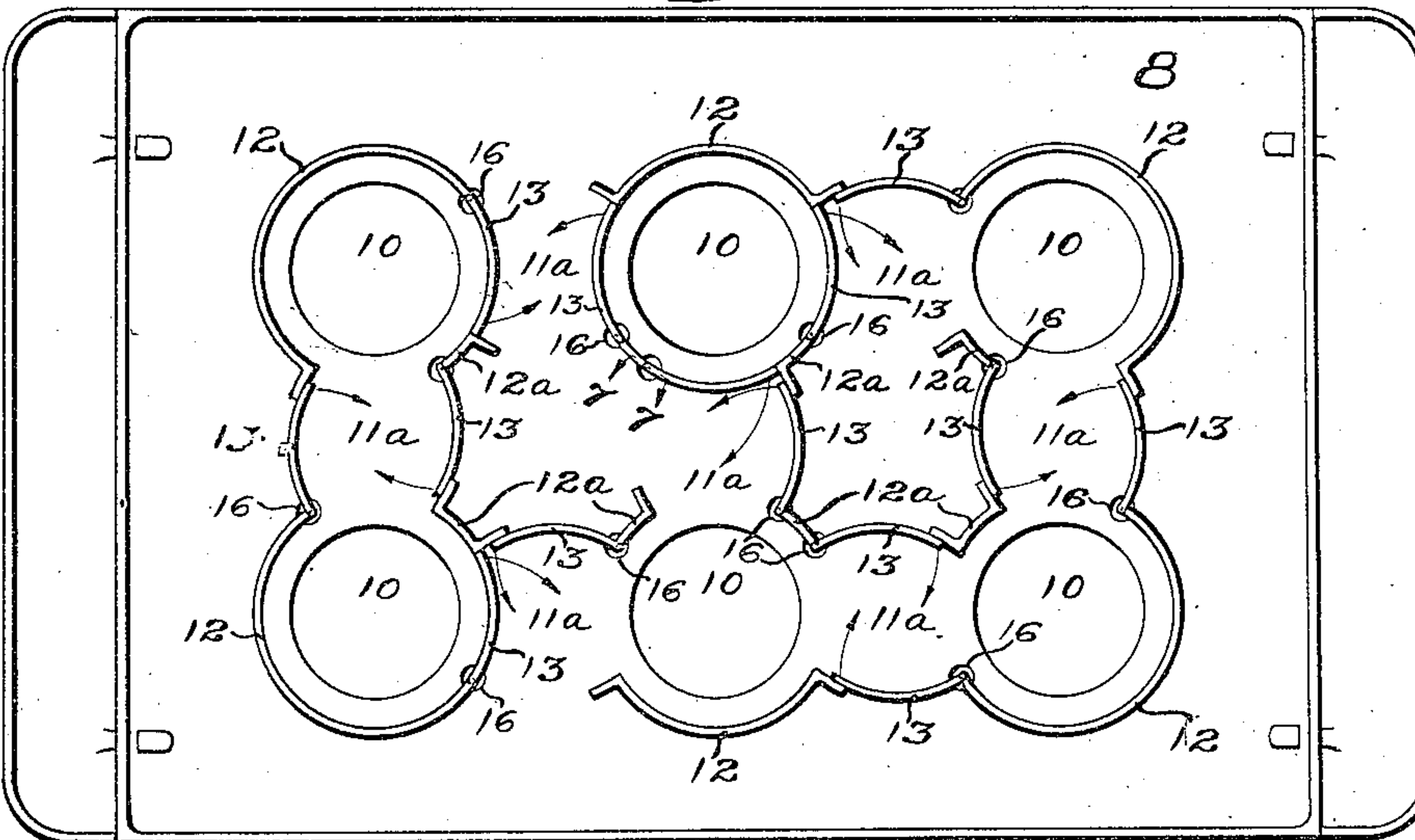
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*Fig. 4*



*Fig. 5*



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Patented June 19, 1923.

1,459,210

# UNITED STATES PATENT OFFICE.

CHARLES E. JOHNSON, OF PHILADELPHIA, PENNSYLVANIA.

## STOVE TOP.

Application filed March 1, 1921. Serial No. 448,910.

*To all whom it may concern:*

Be it known that I, CHARLES E. JOHNSON, a subject of the King of Great Britain (having declared his intention of becoming a citizen of the United States), residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Stove Tops, of which the following is a specification.

One object of my invention is to provide an improved top which can be used with particular advantage on gas stoves and ranges for the purpose of economically using the heat from the fuel consumed.

Another object is to so construct my improved stove top that it will include heat-confining and distributing portions, certain of which are selectively operative for causing heat from an operative burner adjacent one pot-hole to be directed under one or more pot-holes or to confine the heat to the space below the pot-hole of said operative burner.

These objects, and other advantageous ends which will be described hereinafter, I attain in the following manner, reference being had to the accompanying drawings in which—

Figure 1 is a top plan view of a gas stove or range having my improved top thereon,

Figure 2 is a section taken on the line 2—2 of Figure 1,

Figure 3 is a section taken on the line 3—3 of Figure 1,

Figure 4 is an inverted plan view of my improved top showing parts in positions forming a heat-confining space communicating with all of the pot-holes,

Figure 5 is an inverted plan view showing certain of the selectively operative parts having been moved and illustrating certain of a number of possible arrangements of the parts to vary the flow of heated air,

Figure 6 is a perspective view of one of a number of selectively movable portions made in the form of gates, and

Figure 7 is an enlarged sectional view taken on the line 7—7 of Figure 5.

Referring to the drawings, my improved top 8 includes a top plate 9 having pot-holes 10 positioned above the burners 11. In the present instance, I have illustrated six pot-holes, however, it will be understood that any number of holes may be provided according to the size and character of the range.

The plate 9 has a number of depending

portions 12 which are preferably made integral with the plate 9; said portions being arcuate and arranged in the form of flanges partly surrounding the pot-holes 10. These portions 12 are discontinued so as to provide outlets 11<sup>a</sup> between parts thereof; the arrangement being such as to provide comparatively short parts 12<sup>a</sup> of the portions 12 between the outlets 11<sup>a</sup>; said parts 12<sup>a</sup> also being secured rigidly to the plate 9 and may be an integral part thereof. Other portions 13 are made arcuate and in the form of gates which are hinged to the portions 12; certain of the gates being hinged to the parts 12<sup>a</sup>. The gates 13 are preferably made of the same height as the portions 12 and parts 12<sup>a</sup>; said gates being cut away to form half hinges as clearly shown in Figures 6 and 7. The portions 12 and 12<sup>a</sup> are also cut away within their height to form the other halves of the hinges, and hinge pins 14 serve as pivotal connections for the gates 13 to the portions 12 and parts 12<sup>a</sup>, as clearly shown in Figure 7.

The gates 13 have angular projections 15 which extend into holes 16 in the plate 9 and these projections can be engaged by a key of any suitable character (not illustrated) and the gates can be swung on their hinges into various positions. The arrangement is such, as shown in Figure 4, that the gates 13, portions 12 and parts 12<sup>a</sup> form a channel above the burners; said channel communicating with all of the pot-holes 10. It is possible, however, by the movement of the gates to form communication from one pot-hole to another to the exclusion of the other pot-holes, as shown in Figure 5, so that if one of the burners is being used, a portion of the heat, which is ordinarily wasted, will follow the channel prescribed by the portions 12 and gates from one pot-hole to the other, or if desired to confine the heat to one pot-hole, this can be done by moving the adjacent gates to form a complete circle with the adjacent portions 12 and part 12<sup>a</sup> as clearly shown in Figure 5. Thus it is possible to prevent the waste of the heated air, escaping laterally from around a burner and cause the same to flow to any of the pot-holes merely by switching the gates from one position to another.

While I have described my invention as taking a particular form, it will be understood that the various parts of my invention may be changed without departing from



the spirit thereof, and hence I do not limit myself to the precise construction set forth, but consider that I am at liberty to make such changes and alterations as fairly come within the scope of the appended claims.

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

1. A stove top comprising a top plate having holes; flanges surrounding the holes and provided with outlets, and a gate at one side of each outlet adapted to close the outlet and, when opened, to act as a side wall of a passage from outlet to outlet.

2. A stove top comprising a top plate having holes; flanges surrounding the holes and provided with outlets, and a hinged gate at one side of each outlet adapted to close the outlet and, when opened, to act as a side wall of a passage from outlet to outlet.

3. A stove top comprising a top plate having holes; flanges surrounding the holes,

and provided with outlets disposed with an outlet of one flange opposite an outlet of the other flange, and gates, hinged to the flanges, adapted to close the outlets and, when opened, to form a passage from outlet to outlet.

4. A stove top comprising a top plate having holes; flanges surrounding the holes, and provided with outlets disposed with an outlet of one flange opposite an outlet of the other flange; a stop at one side of each outlet, and a gate at the other side of each outlet adapted to close the same and, when opened, to engage the stop at the opposite outlet and form a passage from outlet to outlet.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHAS. E. JOHNSON.

Witnesses:

CHAS. E. POTTS,

AUGUSTUS B. COPPES.