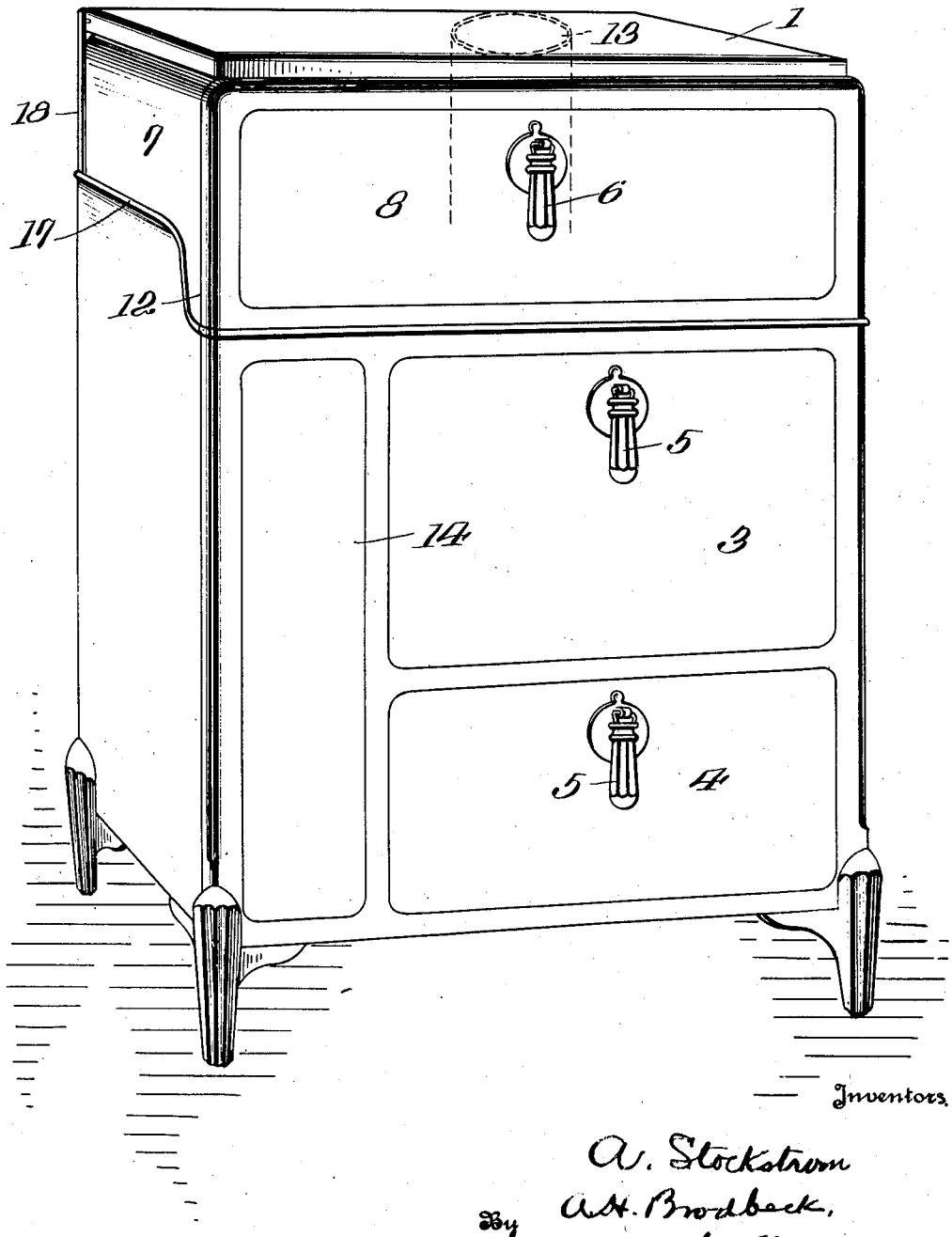
Dec. 9, 1930. A. STOCKSTROM ET AL 1,784,764

GAS RANGE

Filed Aug. 22, 1929 4 Sheets-Sheet 1

Fig. 1.



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GAS RANGE

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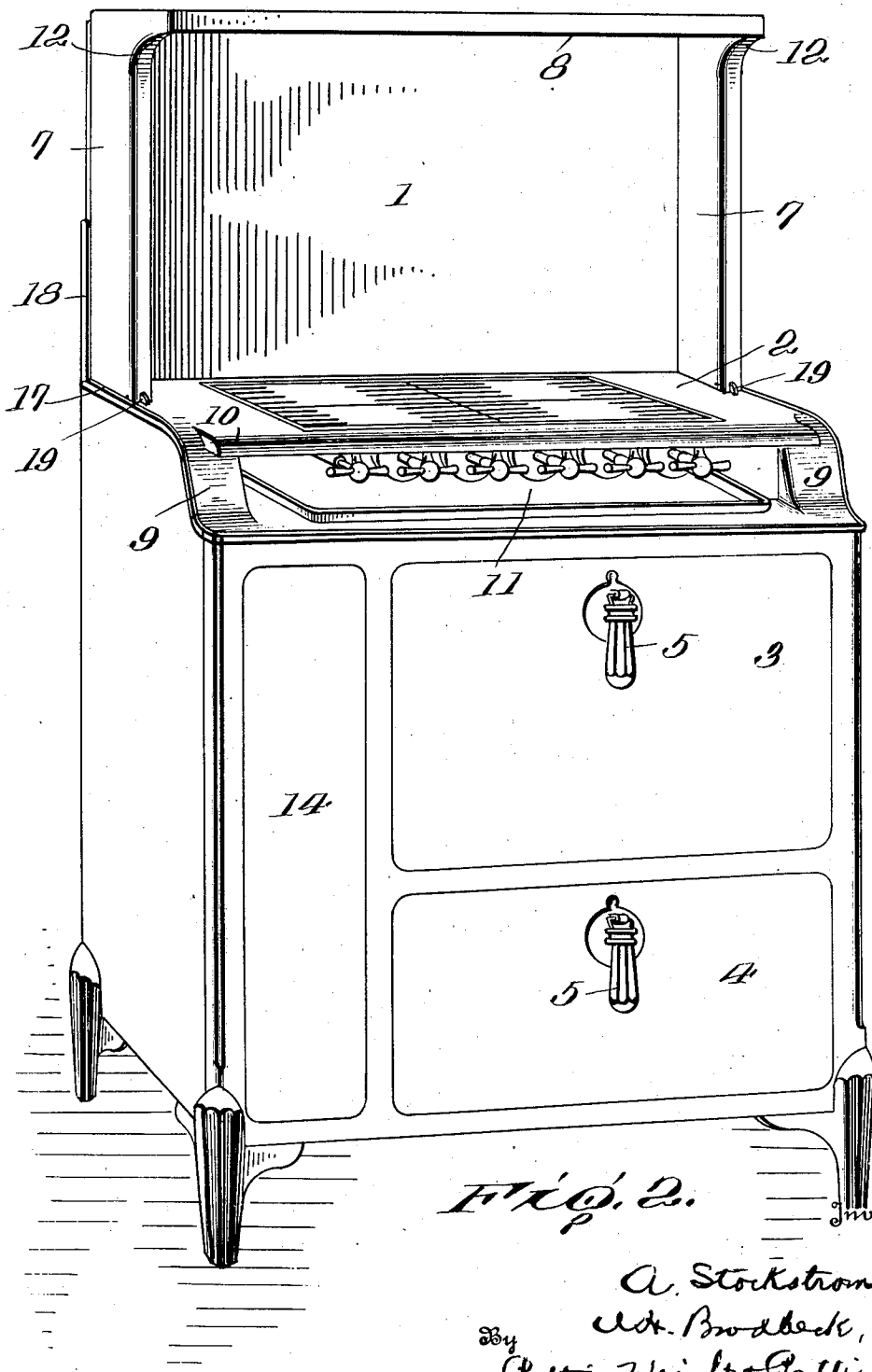


Fig. 2.

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GAS RANGE

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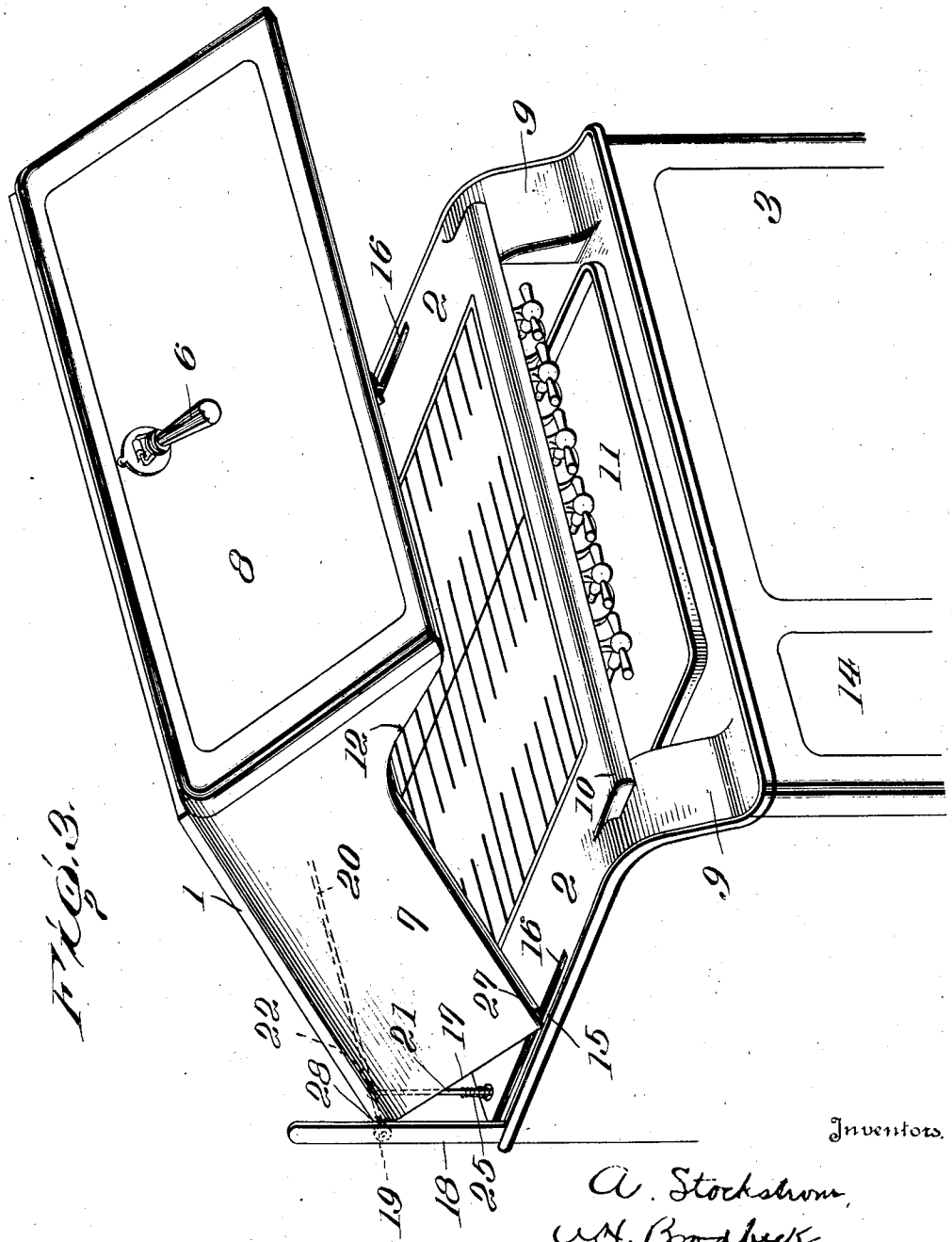


Fig. 3.

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GAS RANGE

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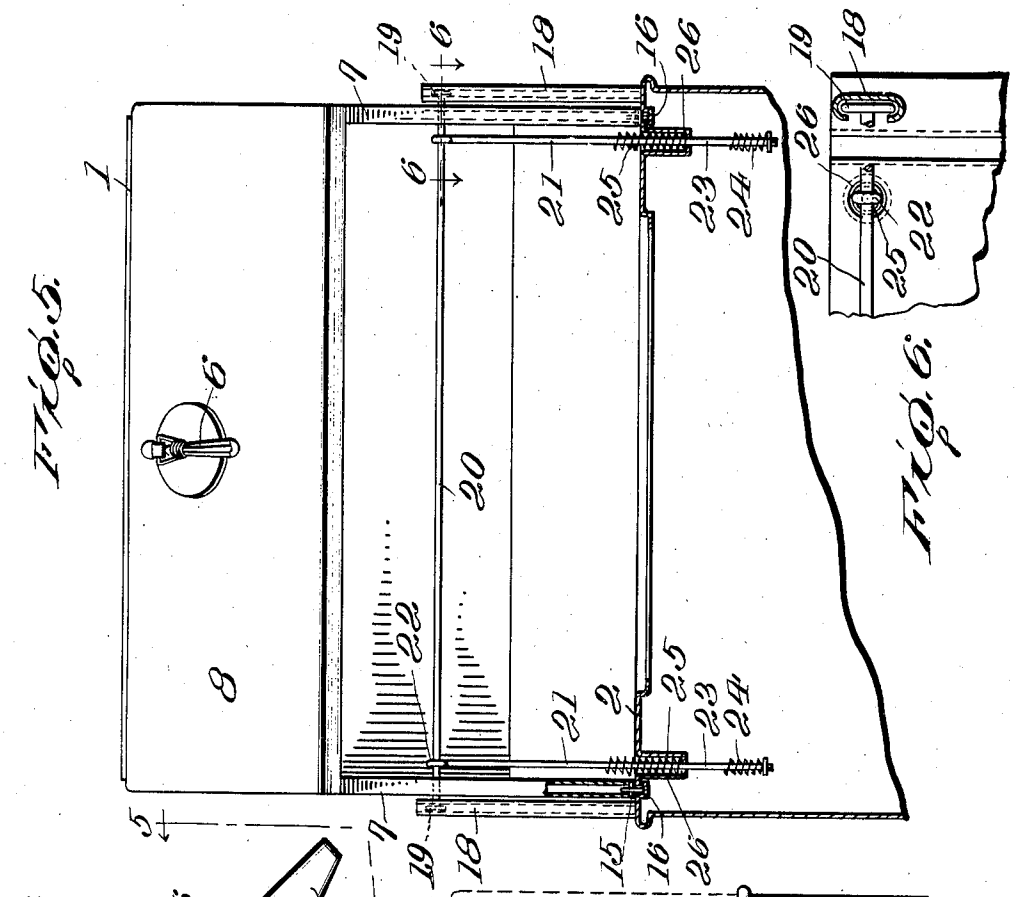


Fig. 5.

Fig. 6.

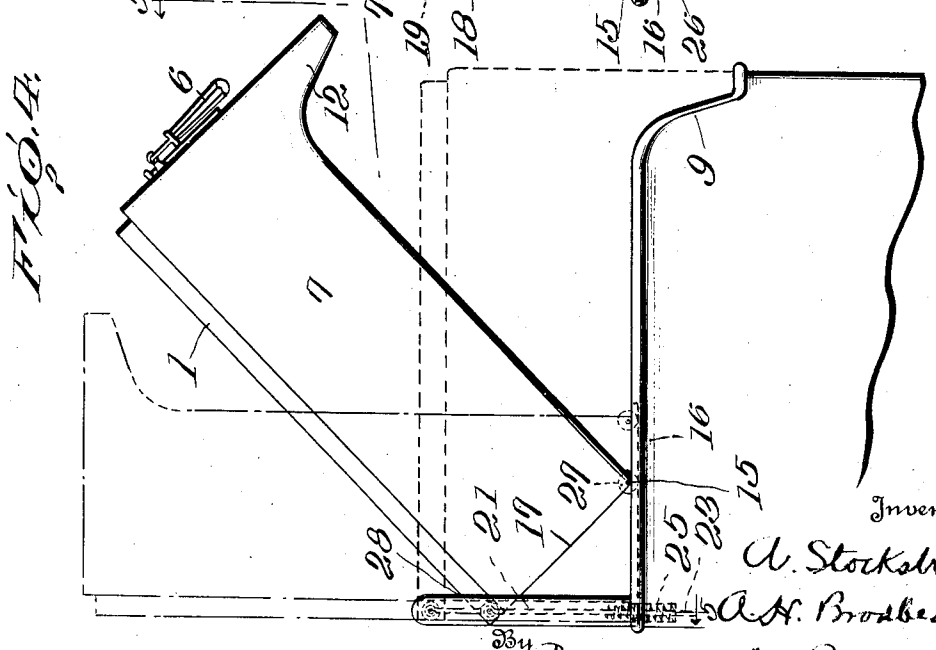


Fig. 4.

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UNITED STATES PATENT OFFICE

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GAS RANGE

Application filed August 22, 1929. Serial No. 387,730.

This invention relates to improvements in gas ranges and the particular feature of this application pertains to a swinging hood for the burner top of the range.

The particular type of range here shown is of the cabinet or low oven type though we wish it understood that the swinging cover construction can be used with other types of ranges without departing from our present improvement.

In the type of range here shown it is common to have the flue outlet located at the rear of the structure for the purpose of having the range located very close to the wall of the room, and it is necessary to have a specially hinged cover that will not substantially project beyond the rear wall of the range.

Other special features of the invention will appear from the following description.

Figure 1 is a perspective view showing a gas range and our improved swinging cover for the burner top, said cover being shown in a closed position.

Figure 2 is a perspective view of our improved range, the cover being shown in a raised position.

Figure 3 is a detached perspective view of the burner top of a range showing the swinging cover in the act of being raised.

Figure 4 is an end view of the upper portion of our range showing the cover in a partially raised position in full lines and completely raised in dotted lines.

Figure 5 is a front view of Figure 4, the said cover being shown partly raised.

Figure 6 is a horizontal sectional view showing the rod, roller and guide of the swinging cover, the latter being omitted from the view.

In the accompanying drawings:

1 is our improved swinging cover that conceals the burner top 2 and burner structures located under it when the cover is in the position shown in Figure 1. Below this cover is an oven 3 and below the over 3 is a broiling compartment 4. Each of the compartments 3 and 4 are provided with suitable doors that are operated by handles 5 which may be of any desired construction. Attached to the front of the swinging hood 1 is also a handle 6 by means of which said cover is controlled in its raised and closed positions.

By reference to the accompanying drawings it will be observed that the swinging cover 1 is provided with end flanges 7 and with a front flange 8, the said flange 8 being deeper than the flanges 7. It will also be observed from the drawings that the burner top 2 is shown of a special construction, the special construction involving the downwardly and outwardly curved portions 9 and the over-lapping portion 10 and the burner construction 11 which is located under the top burner portion 2.

These special constructions of the burner top and of the burners do not form any part of this improvement per se, as the same is made the subject matter of a separate application.

The flanges 7 of the cover have their front ends formed in the ears 12 which are curved and meet the lower edge of the front flange 8 and these curved portions are made of the same contour and lie against the forwardly and outwardly curved portions 9 while the over-lapping portion 10 of the top 2 is wholly enclosed within the cover when it is down.

It is desirable in a range of the type here shown to have it set close to the wall of the room in which it is placed and the said range is provided with a flue outlet 13 which extends substantially against the rear wall of the range.

At one side of the oven 3 and the broiler 5 is a cover 14 which also forms the subject matter of a separate co-pending application and therefore no description of the same in this case is necessary.

Referring now particularly to Figures 3, 4 and 5 which show the special construction of the range which it is the purpose of this application to cover, it will be observed that the front or lower ends of the flanges 7 are provided with wheels 15 that run in depressions 16 formed in the face of the burner top 2. These wheels are journaled in the front corner of the lower edge 17 of the flanges 7. Projecting upwardly from opposite rear corners of the top portion 2 are

standards 18, the said standards being U shaped in cross section as shown clearly in Figure 6. Placed in these U shaped standards are wheels 19, one at each rear or lower corner of the flanges 7 and the wheels rotate as they move up and down in these standards. There is a wheel 19 at each end of the flanges 7 of the cover 1 and these wheels are preferably connected by a transverse rod 20. To this rod 20 there are preferably two vertical rods 21 which have their upper ends 22 lapped around the said rods. These rods pass vertically through the top portion 2 and have their ends 23 extending below the said top portion. Carried by the extended portions 23 are suitable spiral springs 24 and spiral springs 25 which are located in pockets 26 which extend downward from the top portion 2. The object of the rods 21 is that when the top 1 is swung upwardly its rear lower edge will strike the springs 25 thus preventing the top from bumping on the top portion 2 and the springs 24 at the lower ends of the rods 21 also prevent the front ends 12 from bumping on the curved portions 9. By means of this construction the cover can move smoothly to either position without any disagreeable bumping of the parts.

It will also be observed that as the cover 1 is swung in either direction the lower corners 27 of the flanges 7 swing backward and forward and the rear corners 28 move up and down so that the top 1 when the cover is raised is substantially flush with the rear wall of the range and the front wall corner 27 moves rearward to a point substantially under the rear corner 28. When the cover is swung to vertical or open position then the corner 27 moves forward while the corner 28 moves downward so that the cover assumes the position shown in Figure 2. By means of this arrangement the flanged cover does not occupy any space whatever rear of the rear wall of the range so that the range can be placed close to the wall of the room containing it, leaving only sufficient room for the flue connection 13.

Changes can be made in the specific construction of the parts herein described without departing from the spirit of the invention so long as the changes are within a liberal interpretation of the appended claims.

No claim is made in this application for the construction involving the forward extension 10 of the top 2, nor the curved portion 9 therebelow, nor the end 8 extended to conceal the valves located below the extension 10, since this is the subject-matter of a co-pending application of the applicants, bearing Serial No. 387,731, filed August 22, 1929.

Having thus described our invention, what we claim and desire to secure by Letters Patent is:

1. A range having a top portion, a swinging cover therefor, the rear and lower end of the swinging cover adapted to move vertically and the lower front end to move horizontally, for the purpose described.

2. A range having a top burner portion and a swinging cover connected therewith the rear lower portion of the cover sliding vertically and the lower front edge of the cover slidable horizontally, for the purpose described.

3. A range having a top burner portion and a swinging cover therefor having end flanges, the lower rear end of the said flanges slidable vertically and the lower front ends of the flanges slidable horizontally, for the purpose specified.

4. A range having a top burner portion and a swinging cover therefor, said cover having end flanges, the rear lower ends of the flanges guided to move vertically and the lower front ends of the flanges movable horizontally on the face of the top burner portion, for the purpose set forth.

5. A gas range comprising a top burner portion, a swinging cover connected with the top portion, said swinging cover having forwardly extending end flanges, upwardly extending standards located on the said top portion, the lower rear ends of the said flanges connected with the standards to move vertically and the lower front corners adapted to move laterally as the cover is raised or lowered.

6. A gas range comprising a burner top, a swinging cover for the burner top having forwardly extending end flanges, standards extending vertically from the top portion, the lower rear corners of the flanges connected with the standards to slide vertically and the lower front corners of the flanges connected with the top portion to move laterally as the cover is moved up or down, for the purpose set forth.

7. A gas range comprising a top burner portion, a swinging cover having forwardly extending flanges, standards extending upwardly from the burner top and rollers adapted to slide thereon and the lower forward corners of the flanges provided with rollers adapted to engage the top portion, the parts operating as set forth.

8. A range comprising a top burner portion, a swinging top having forwardly extending end flanges, standards extending upwardly from the top portion, the standards being substantially U shaped, rollers embraced within the U shaped portion and the lower front corners of the flanges having a sliding connection with the said top portion, for the purpose set forth.

9. A range comprising a top burner portion, a swinging cover having forwardly extending end flanges, means for guiding the lower rear corners of the flanges vertically

and the lower front corners back and forward, and vertical rods extending substantially from the rear corners of the flanges, said rods passing through the top portion and carrying springs located above and below the top portion, for the purpose of preventing bumping of the cover when it is raised or lowered.

In testimony whereof we hereunto affix our signatures.

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ALMER H. BRODBECK.