

June 7, 1932.

C. M. DIBBLE ET AL

1,861,689

BROILER

Filed Nov 3, 1930

2 Sheets-Sheet 1

Fig. 1

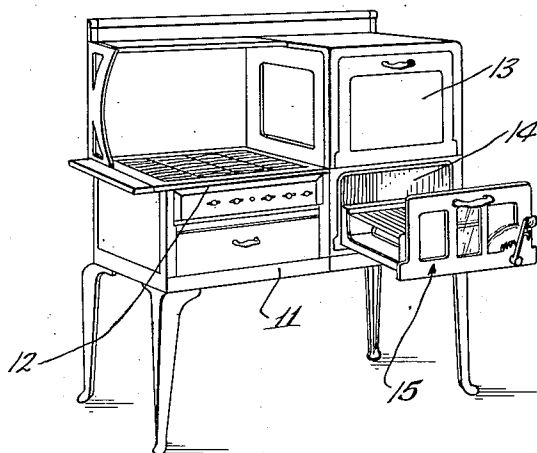
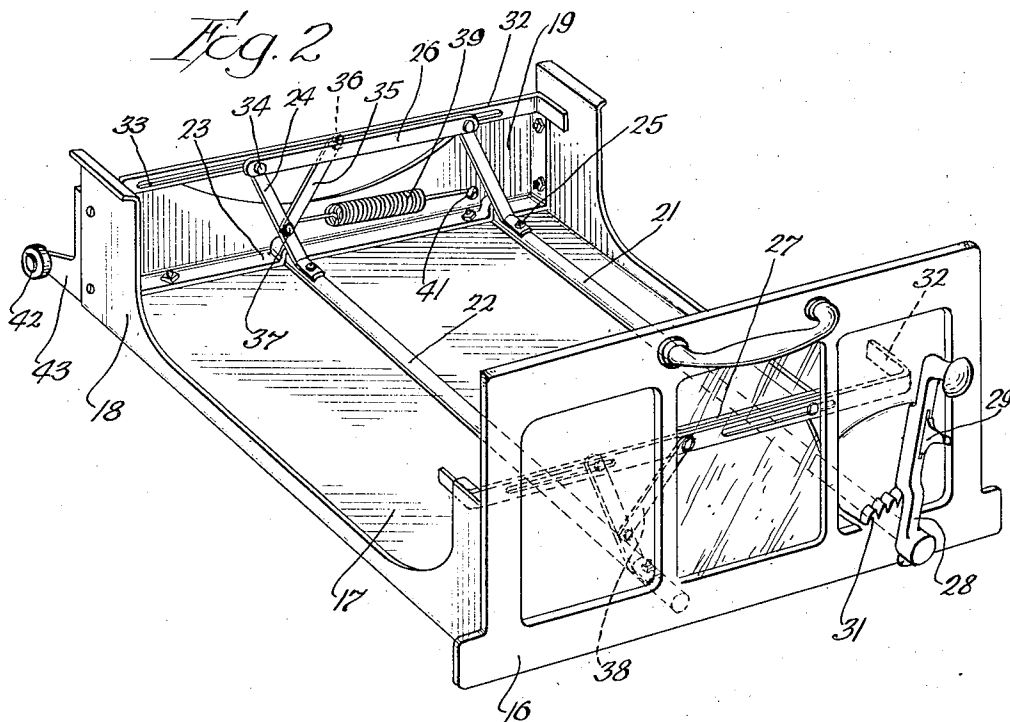


Fig. 2



Inventors
Claude M. Dibble
+
Isaiah S. Holloway
John L. Carpenter
Attys.

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Fig. 3

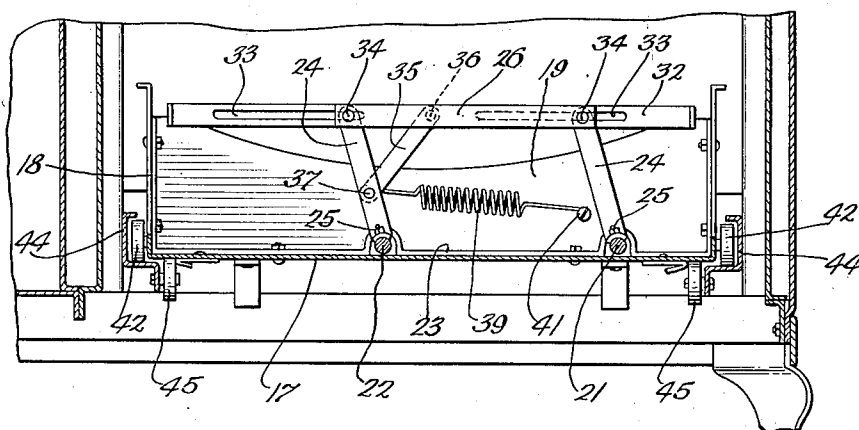
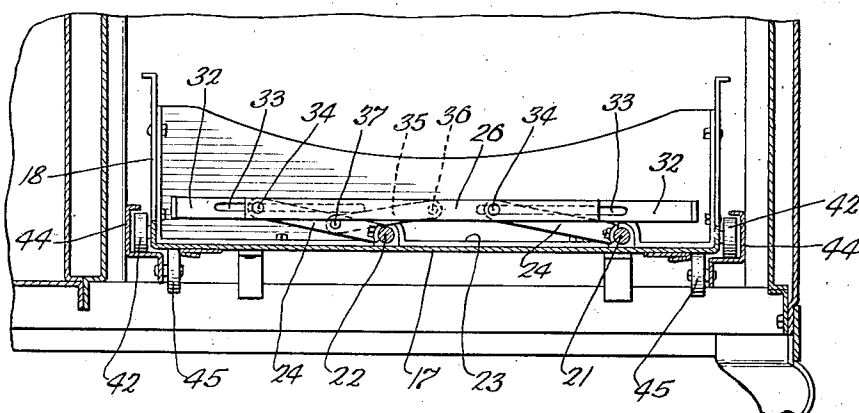


Fig. 4



Inventors
Claude M. Wibble
Isaiah S. Holloway
John C. Carpenter
Atty-

UNITED STATES PATENT OFFICE

CLAUDE M. DIBBLE AND ISAIAH S. HOLLOWAY, OF JOLIET, ILLINOIS, ASSIGNORS TO
MOORE BROTHERS COMPANY, OF JOLIET, ILLINOIS, A CORPORATION OF ILLINOIS

BROILER

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This invention relates in general to broilers in fluid fuel burning stoves and has more particular reference to a broiler drawer construction for such stoves wherein means are provided for adjustably varying the distance between the broiler pan and/or the product being cooked and the flame.

The invention has for a principal object the provision of raising and lowering means for the broiler pan which may be operated from the outside of the broiler oven or broiler oven drawer and without pulling the drawer (if one be provided) from its position in the broiler oven, the parts being so constructed and arranged that the broiler pan is lifted and lowered vertically and without any of the parts scraping upon the side walls as an incident to the movement of the pan.

Another important object of the invention is the provision of an accurate and effective counterbalancing device for sustaining the pan in adjusted positions.

Numerous other objects and advantages of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

Referring to the drawings:

Figure 1 is a perspective view of a fluid fuel burning stove embodying the present invention;

Fig. 2 is an enlarged perspective view of the drawer; and

Figs. 3 and 4 are transverse sections taken vertically across the drawer and disclosing the movement of one of the pan supporting members in adjusting the height of the pan.

For the purpose of illustrating our present invention, we have shown on the drawings a stove comprising a supporting frame 11, a burner top 12, a baking oven 13, and a broiler compartment or oven 14 into which a drawer 15 may be moved.

The drawer 15 is constructed of metal and has a front wall 16 adapted to close the opening into the compartment 14 when the drawer is pushed into cooking position. The bottom 17, side walls 18 and the back wall 19 are all rigidly connected together, as may be seen

in Fig. 2. Two rods 21 and 22 are arranged upon the bottom 17 and have bearing preferably in flanges 23 at the base of the front and back walls. Each rod 21, 22 is provided at each end with an arm 24 fixed at 25 to the rod. A link 26 connects the upper ends of the two arms at the back and a similar link 27 connects the upper or free ends of the two arms at the front of the drawer. The rod 21 extends through the drawer front and is provided with a hand lever 28 having a locking pawl 29 adapted to engage locking teeth 31 formed on the drawer front.

Two pan supporting members 32 are provided, one arranged at the back and the other at the front of the drawer. In each of these pan supporting members slots 33 are formed to receive pins 34 which connect the arms 24 with the link 26.

A compensating link or member 35 is pivoted at 36 to the rear pan supporting member 32 and at 37 to the lefthand arm 24 at the back. A similar link 38 is similarly arranged at the front of the drawer. The links 35 and 38 are dimensioned and located to hold the movement of the pan supporting members to a straight vertical line in the raising and lowering, the pins 34 sliding in the slots 33 in the movement. A counterbalancing spring 39 is secured at one end at 41 to the rear wall 19 of the drawer and at the other end to the pivot pin 37 and serves to counterbalance the weight of the pan and the product being cooked.

It will be apparent from comparison of Figs. 3 and 4 that each pan carrying member 32 moves straight up and down vertically and without arcuate movement as the arms swing from one position to another.

Suitable rollers 42 may be provided from rearwardly extending arms 43 for engagement in trackways 44 provided at the sides of the compartment 14 and rollers 45 may be located within the compartment to support the drawer in its movement.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrange-

ment of the parts without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

We claim:

1. In a broiler, a pan supporting member, a pair of arcuately swinging arms swinging in the same direction and having pin and slot connection to said pan supporting member and adapted to raise and lower the same, and a compensating device associated with said arms for confining the movement of said pan supporting member to a straight vertical line.

2. A broiler drawer, comprising a pan supporting member, a pair of arcuately swinging arms swinging in the same direction and having pin and slot connection to said pan supporting member and adapted to raise and lower the same, and a compensating device associated with said arms for confining the movement of said pan supporting member to a straight vertical line.

3. A broiler drawer, comprising a pair of arcuately swinging arms swinging in the same direction and a pan supporting member having sliding connection to said arms, and a compensating link pivotally connected at its end respectively to said pan supporting member and to a said arm.

4. A broiler drawer, comprising a pair of arcuately swinging arms swinging in the same direction and a pan supporting member having sliding connection to said arms, a compensating link pivotally connected at its end respectively to said pan supporting member and to a said arm, and a link connecting the free ends of said arm.

5. A broiler drawer, comprising a pair of parallelly swinging arms, a pan supporting member engaging the ends of said arms, and a link pivoted respectively to a said arm and said member for moving said member horizontally in direction opposite to the horizontal component of the swing of said arms.

CLAUDE M. DIBBLE.

ISAIAH S. HOLLOWAY.