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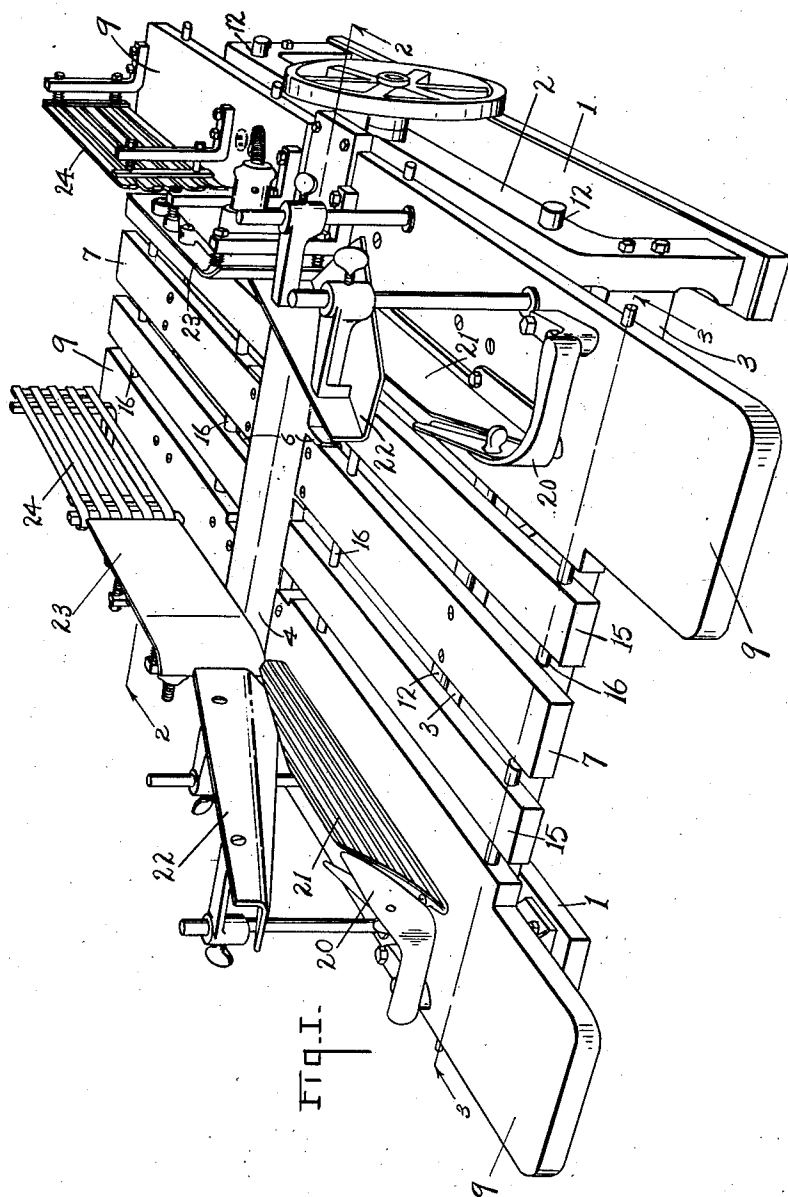
1,586,375

H. H. METCALF

SEALING MACHINE

Filed Oct. 9, 1924

2 Sheets-Sheet 1



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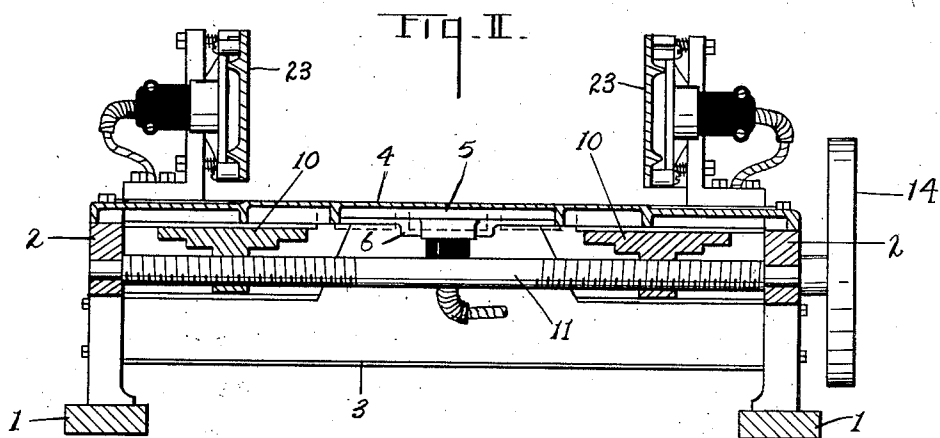
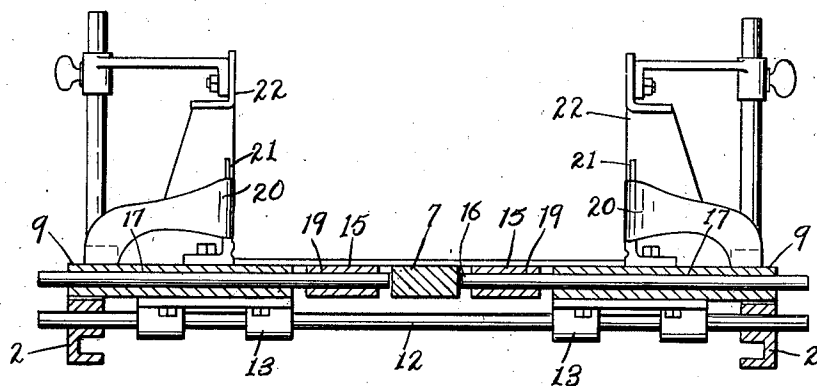


FIG. III.

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UNITED STATES PATENT OFFICE.

HOWARD H. METCALF, OF BATTLE CREEK, MICHIGAN, ASSIGNOR TO BATTLE CREEK BREAD WRAPPING MACHINE COMPANY, OF BATTLE CREEK, MICHIGAN.

SEALING MACHINE.

Application filed October 9, 1924. Serial No. 742,620.

This invention relates to improvements in sealing machines.

My present improvements relate particularly to the type of machine shown in my application for Letters Patent filed August 6, 1923, Serial No. 655,980, my present improvements as illustrated being an adaptation to the mechanism there shown. My improvements are, however, desirable and readily adapted for use in other types of wrapping and sealing machines.

The main objects of this invention are:

First, to provide an improved sealing machine which is adaptable to a very wide range in the size of loaves of bread or other articles to be wrapped.

Second, to provide an improved sealing machine having these advantages in which the adjustment is very simple and quickly effected.

Objects pertaining to details and economies of construction and operation of my improvements will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this application, in which:

Fig. I is a perspective view of a wrapping and sealing machine embodying the features of my invention.

Fig. II is a transverse sectional view on a line corresponding to line 2—2 of Fig. I.

Fig. III is a transverse sectional view on a line corresponding to line 3—3 of Fig. I.

The sectional views are taken looking in the direction of the little arrows at the ends of the section lines and similar numerals of reference indicate similar parts in all of the views.

Referring to the drawing, I provide a pair of longitudinal base members 1 upon which the side members 2 are mounted, the side members 2 being preferably castings. These side members are connected by cross members 3 providing a rigid frame.

The bottom heating plate 4 carrying the heating unit 5 is mounted centrally upon the side members 2. This bottom heating plate has brackets 6 projecting at each side to

which the inner ends of the central way members 7 are secured. These way members 7 are also secured to the cross pieces 3.

I also provide adjustable side way members 9, the inner ends of which are mounted on carriages 10 disposed below the plane 4 and simultaneously adjusted by means of the reversely threaded rod 11 having a hand wheel 14 at one end. This rod has bearings in the side members of the frame as shown in Fig. II.

The outer ends of the adjustable way members 9 are supported by the rods 12, the way members having slides 13 slidable on the rods. Thus supported, the way members 9 are simultaneously adjusted to and from each other through manipulation of the hand wheel 14.

The removable way members 15 are removably and adjustably supported by the rods 16 disposed through bores 17 in the side of adjustable way members, the rods being passed through bores 19 in the way members 15. The way members 15 may be removed by removing the rods 16 and the machine closed up for the loaves or articles of the smallest size. Or, they may be separated, the removable members 15 put in place and the rods inserted, thereby supporting the members 15 so that they can be centered between the central and adjustable way members when the way is fully extended as shown in Fig. I.

The way members 9 in front of the heating plate 4 have folders 20, 21 and 22 mounted thereon so that the folders are adjustable with the way members. As the details of these folders form no part of the invention they are not further described herein.

The side sealing plates 23 are mounted on the carriages 10. The cooling plates 24 are mounted on the rear adjustable side way member.

Sealing machines embodying the features of my invention may be readily adjusted to loaves or articles of widely varying dimensions.

I have illustrated and described my improvements in an embodiment or adaptation which I have found very practical. I have not attempted to illustrate or describe other embodiments or adaptations as I believe the disclosure made will enable the embodiment or adaptation thereof as may be desired.

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

1. In a sealing machine, the combination of a frame comprising side and cross members, a bottom heating plate mounted on said frame, carriages disposed below said bottom heating plate, means for simultaneously adjusting said carriages to and from each other, a central way member, adjustable way members mounted on said carriages, said adjustable way members having transverse bores therein, supporting rods removably arranged in said bores, and intermediate way members disposed between said adjustable way members and said central way member and having transverse bores therein to receive said rods whereby said intermediate

members are adjustably and removably supported.

2. In a sealing machine, the combination with a heating means, of a way operatively associated with said heating means and comprising a central way member and adjustable side way members, said side way members having transverse bores, supporting rods removably arranged in said bores, and intermediate way members disposed between said adjustable way members and said central way member and having transverse bores therein to receive said rods whereby said intermediate way members are adjustably and removably supported.

In witness whereof I have hereunto set my hand.

HOWARD H. METCALF.