Feb. 9, 1926. 1,572,494

W. C. KRAUSE

PRESSURE BRANDING MACHINE

Filed June 27, 1924 2 Sheets-Sheet 1

Fig. 1.

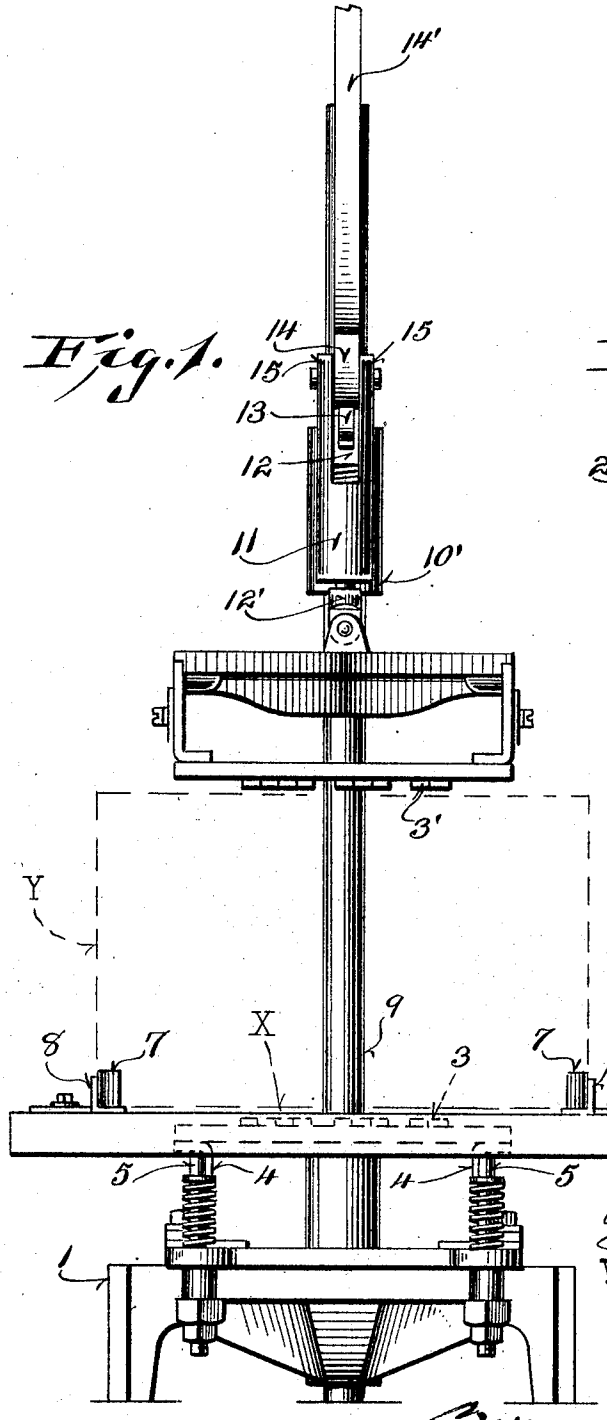
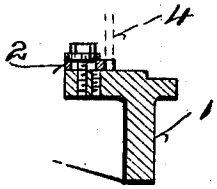


Fig. 2.



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Filed June 27, 1924 2 Sheets-Sheet 2

Fig. 3.

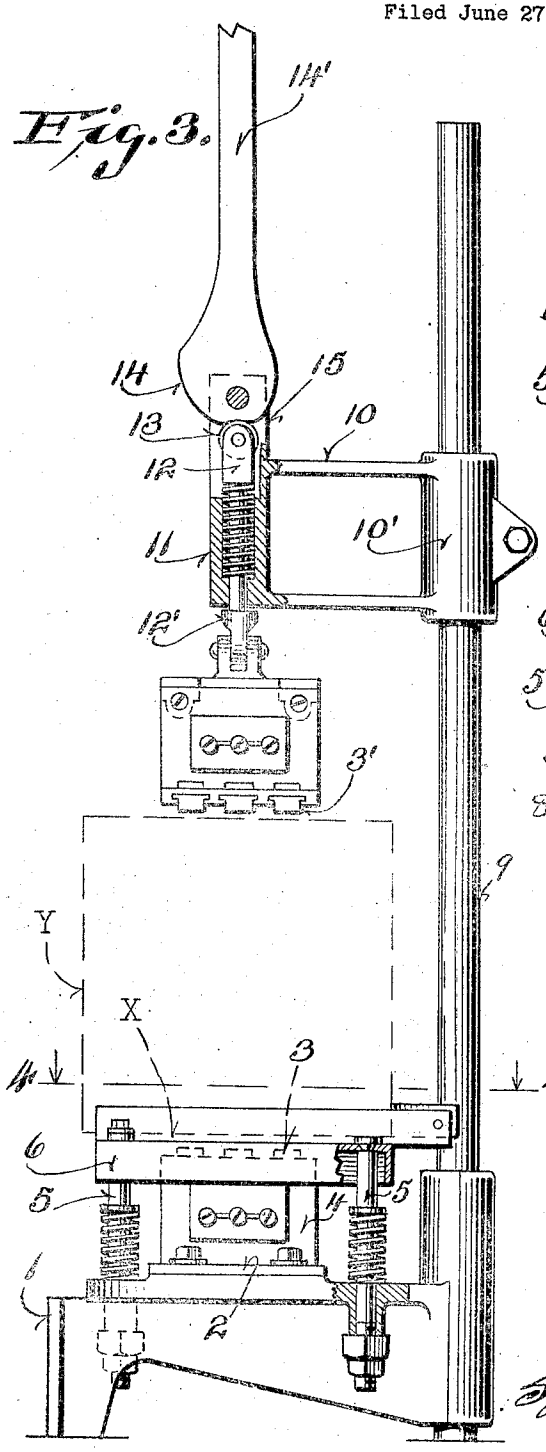
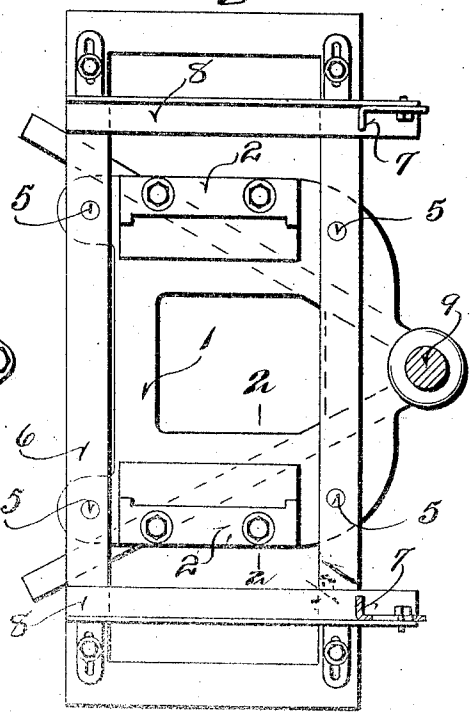


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM C. KRAUSE, OF MILWAUKEE, WISCONSIN.

PRESSURE BRANDING MACHINE.

Application filed June 27, 1924. Serial No. 722,733.

To all whom it may concern:

Be it known that I, WILLIAM C. KRAUSE, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Pressure Branding Machines; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention refers to branding irons and particularly that type wherein an electric heating element is utilized in connection with the platen, as it is disclosed in my patent, dated January 15, 1924, Number 1,481,102.

The specific object of my present invention is to provide a frame for the platen embodying a cam controlled means for applying pressure to the branding iron upon a supported container.

Another object of my invention is to provide means for adjusting the device whereby containers of different dimensions may be confined and branded.

Another object of my invention is to provide oppositely disposed branding iron platens with means for yielding and supporting a container therebetween, whereby both ends or sides of the container are simultaneously branded incidentally to power being applied to one of the branding irons. A further object of my invention is to provide oppositely disposed companion irons having means for simultaneously drawing the same towards each other, whereby the container is branded upon both sides or ends.

With the above and other minor objects in view the invention consists in certain peculiarities of construction and combination of parts, as will be hereinafter set forth with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 represents a front elevation of a branding iron machine, embodying the features of my invention.

Figure 2, a detailed cross section, illustrating means for clamping the branding iron or platen to a rigid post, the section being indicated by line 2—2 of Figure 4.

Figure 3 is a side elevation of the machine with parts broken away and other parts in section to more clearly illustrate the details of construction, and

Figure 4, a sectional plan view of the machine, the section being indicated by line 4—4 of Figure 3.

Referring by characters to the drawing, 1 represents a bed provided with oppositely disposed adjustable clamping plates 2 for detachably securing therebetween a branding iron platen 3.

The details of construction of this platen forms no part of my present invention and it is preferably similar in construction to the one previously patented by me and referred to above, the said patent being provided with an electric element for heating same.

It will be seen that the platen is provided with downward extending feet 4, which are gripped between the plates 2 and the type carried by this platen may be arranged to represent any arbitrary set of indices.

Projecting upwardly from the bed 1 and slidably guided therein, are four spring controlled plungers 5, which plungers serve to support, at their upper end, a skeleton frame. This frame forms a bed piece for the container to be branded, which bed piece constitutes a yieldable skeleton support having rear adjustable stops 7 for aligning a receptacle and adjusting companion rails 8 for supporting said receptacles. Hence, it will be seen that the receptacle supporting frame is adapted to receive a box or receptacle of different dimensions. When the box is so positioned, its lower surface, as indicated at X, will be positioned slightly above the face of the platen type to be supported by the bed 1.

The bed 1 has extended upwardly therefrom a vertically disposed post 9, to which is adjustably secured a bracket 10, the bracket being provided with a split hub 10′ which is rigidly clamped to the post at any desired elevation. The bracket is also provided with a barrel 11, the bore of which has mounted therein a spring controlled plunger 12. The lower end of the plunger carries a head 12′ to which is pivotally secured to an upper platen 3′, which platen is associated with lower platen 3, the said platens being oppositely disposed and properly aligned. The upper end of the plunger 12 carries a center friction roller 13, which roller is engaged by a cam 14 that is pivotally mounted between ears 15, which constitute upper projections of the barrel. The

cam 14 is formed with a handle 14′ whereby power may be applied to the cam for rocking or rotating the same in opposition to the spring controlled plunger. From the foregoing description it will be seen that owing to the various adjustments of the branding iron machine, boxes of different dimensions can be readily branded.

In a branding operation, a box, as indicated at Y, is first adjusted to the supported bed 6 between flanges of the rails 8 and against the stop 7.

The platen being secured, the operator rocks the cam 14 through its lever extension, whereby the upper platen 3′ is caused to travel downwardly, engaging the upper face of the container Y and further pressure will then cause the container Y to travel downwardly in opposition to the spring controlled plungers 5. This action will cause the lower face of the box to come into contact with the face of the type of the lower platen 3 and hence, the box will thus be squeezed between the two platens for a time, whereby said box will be simultaneously branded, both at the top and bottom, as indicated, or sides, as the case will be.

Thus it will be seen that a minimum of time is required for branding and in a single operation, two sides or ends of the container are branded simultaneously. It will also be observed that where it is not desired to brand both ends or sides of a container, the lower branding element or platen may be removed. It will also be observed that if desired, two boxes may be stacked between the branding elements upon the supporting bed and in each case the said two boxes will be branded simultaneously upon one face only.

Although the particular type of electric heater employed for the branding platen forms no part of this invention, as regards its specific details, it is to be noted, nevertheless, that by the use of electrically heated branding platens, it is not necessary to have movable heaters which are automatically moved out of the way of the platen during the branding operation, Further a box may be supported by the skeleton frame directly over the electrically heated banding platen without danger of scorching the box as would otherwise be the case with other types of heaters.

While I have shown and described a practical branding machine minutely as to details, it is understood that I may vary such details without departing from the spirit of my invention, as come within the scope of the claim.

I claim:

A branding machine comprising a bed plate, a post extending upwardly therefrom, a bracket adjustably carried by said post, an electrically heated branding platen movably supported by said bracket, a spring urging said platen upwardly, means for depressing said movable platen, a stationary electrically heated branding platen rigidly carried by said bed plate, a skeleton frame positioned above said stationary platen for supporting the work, and springs yieldingly supporting said frame.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

WILLIAM C. KRAUSE.