

T. A. JACKSON.
MACHINE FOR REFINISHING METAL CONTAINERS.
APPLICATION FILED AUG. 16, 1920.

1,419,929.

Patented June 20, 1922.

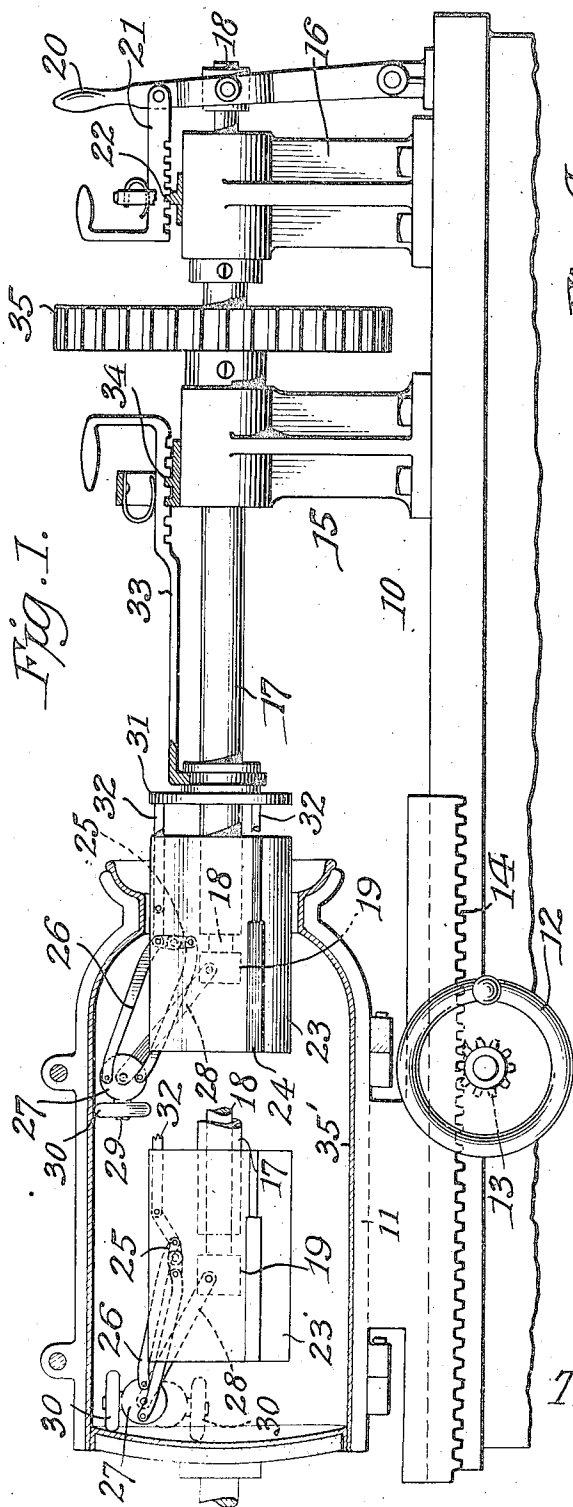


Fig. 4.

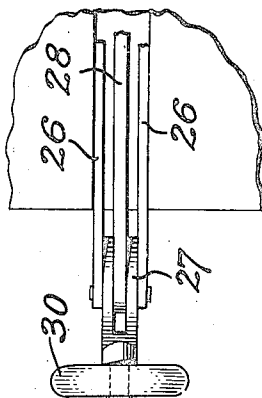


Fig. 3.

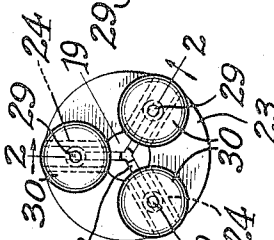
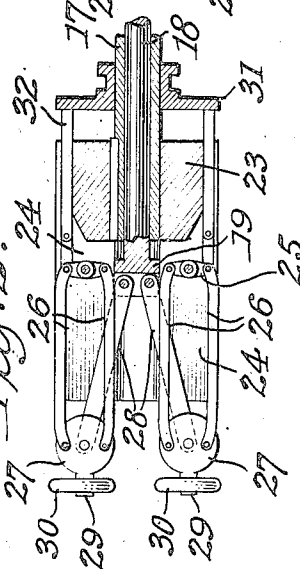


Fig. 2.



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MACHINE FOR REFINISHING METAL CONTAINERS.

1,419,929.

Specification of Letters Patent. Patented June 20, 1922.

Application filed August 16, 1920. Serial No. 403,881.

To all whom it may concern:

Be it known that I, THADDEUS A. JACKSON, a citizen of the United States, residing at Brooklyn, Kings County, New York, have invented a new and useful Improvement in Machines for Refinishing Metal Containers, of which the following is a specification.

This invention relates to machines for refining metal containers, the object being to provide means whereby the operative elements employed to engage the side walls of a container with the planes thereof at right angles to the axis, may be adjusted to engage the bottom of the can with the planes thereof parallel with the said axis.

In short, the object of the invention is to provide means whereby the same devices employed to refinish the side walls of a container, may be adjusted to refinish the bottom of said container.

In the accompanying drawings,

Fig. 1 is a partial diagrammatic elevation of my improved machine.

Fig. 2 is a section of the revoluble head on the line 2—2 of Fig. 3.

Fig. 3 is an end view of the head.

Fig. 4 is an enlarged detail of one of the rolls and its associated parts.

Referring to the drawings, 10 designates a table, slidably supporting a can holder 11, whose longitudinal movement is controlled by a hand wheel 12, pinion 13, and rack 14.

A pair of bearings 15 and 16 are fixed to a table 10, and support a tubular drive shaft 17, and a shift rod 18, which passes through said shaft 17, and carries at one end a slotted block 19, and the other end is connected to a shift lever 20, adapted to be locked against movement by a hinged rack 21, engaging a fixed tooth 22, as shown.

Keyed to the shaft 17, is a head 23, having three slots 24, in which are arranged rock bars 25, having pivotal connection at the ends with link bars 26, which are pivoted to disks 27, carried at the outer ends of spreader bars 28, pivoted in the slotted block 19.

The circular heads 27, have stub shafts 29, on which rollers 30, are rotatably mounted.

I provide a disk 31, slidable on shaft 17, and connected by rods 32, to the outer ends of the rock bars 25, so that by manipulating

a slide rack 33, over lock teeth 34, the rolls 30, may be spread or adjusted to any desired distance or angle, as shown in Fig. 1 of the drawings.

A power gear 35 is keyed to shaft 17, to rotate the head 23, and in the operation of refining or smoothing out the walls of a metal container, one of which is shown at 35', in the holder 11, the link bars 26 engage the sides of slots 24, and take the torsional thrust as the rolls 30 operatively engage the inner walls of the container.

In the construction shown and described, it will be seen that the same rolls employed to engage the side walls of the container are adjusted to engage the end wall thereof, and when in the latter adjusted position assume a position with their planes parallel with the axis of the container and concentric with said axis so that no frictional drag can occur.

During the bottom refinishing operation the lever 20 is manipulated to feed the rolls radially inward and as the center is approached, the rolls may be thrown to the opposite side of their swinging center by the rack 33, so that practically the entire bottom may be refinished.

It is thought that the operation and utility of the machine will be apparent without further description, and while in the drawings there is illustrated a preferred embodiment of the invention, it is to be understood that the structural elements thereof are susceptible to such variations and modifications as fall within the scope of the appended claims.

What I claim is:—

1. In a machine of the class described, the combination with a holder for a container, of a plurality of rolls adapted to engage the side wall of the container, means for adjusting said rolls to engage the end wall of said container and means for driving the same, as described.

2. In a machine of the class described, the combination with a holder for a container, of a rotary head, a plurality of annularly arranged rolls carried thereby and adapted to engage the side wall of said container, means for adjusting said rolls to engage the end wall of the container and means for driving the same as specified.

3. In a machine of the class described, in combination with a holder for a container,

a revoluble head, rolls carried thereby and being adapted to engage the side wall of the container, means for adjusting said rolls to engage the end wall thereof, means for feeding the rolls in a radial direction during the bottom refinishing operation and means for driving the same, as described.

4. In a machine of the class described, in combination with a holder for a container, a plurality of refinishing devices adapted to operatively engage the side wall of the container, means for adjusting said devices to engage the bottom wall thereof and means for driving the same, as shown and described.

5. In a machine of the class described, in

combination with a holder for a container, a revoluble head having slots, a block slidable in said head, a plurality of disks having shafts, rolls carried on said shafts, links connecting the disks with the head and bearing against the side walls of the slots, spreader bars connecting the disks with the said block, means for causing the rolls to operatively engage the side wall of the container, means for adjusting the said rolls to engage the end wall thereof and means for driving the same, as described.

In testimony whereof, I have signed my name to this specification this 31st day of July, 1920.

THADDEUS A. JACKSON.