No. 658,427. Patented Sept. 25, 1900.

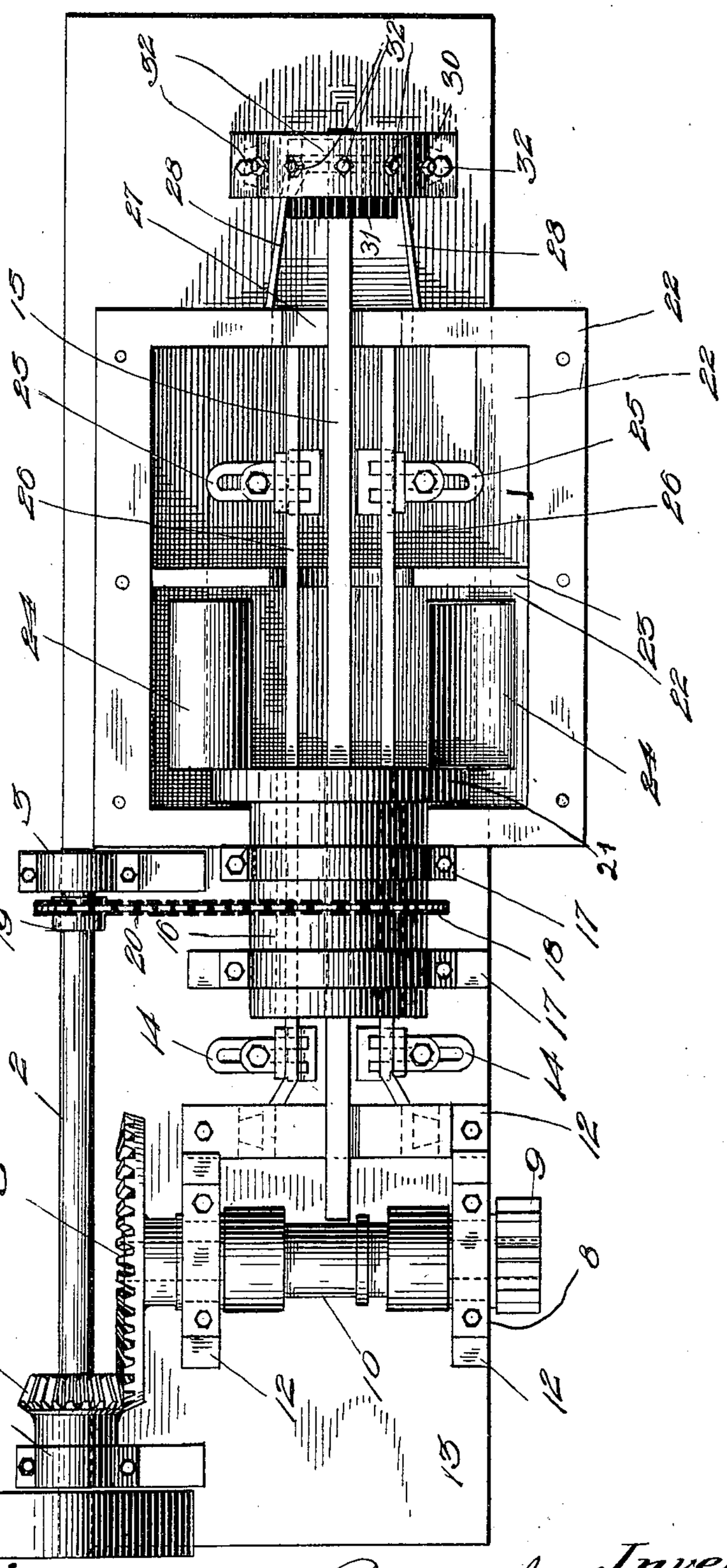
R. F. CERMAK.

MACHINE FOR PAINTING MOLDINGS.

(Application filed Sept. 25, 1899.)

(No Model.) 3 Sheets—Sheet 1.

Fig. 1.



Witnesses:
Otto Baumrucker
Thos. J. Pelikan

Inventor:
Rudolph Frank Cermak
By Victor J. Evans
Att'y

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(No Model.) 3 Sheets—Sheet 2.

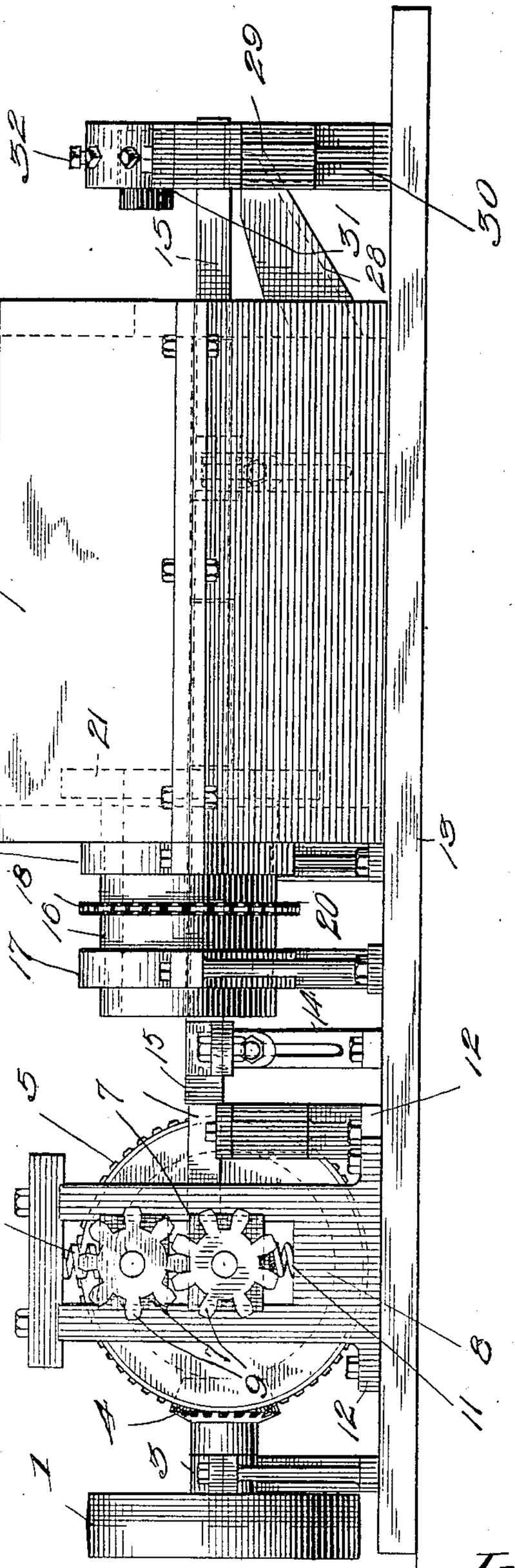

Fig. 2.

Witnesses:
Otto Baumrucker.
Theo. J. Pelikan

Inventor:
Rudolph Frank Cermak
By Victor J. Evans.
Att'y

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Fig. 4.

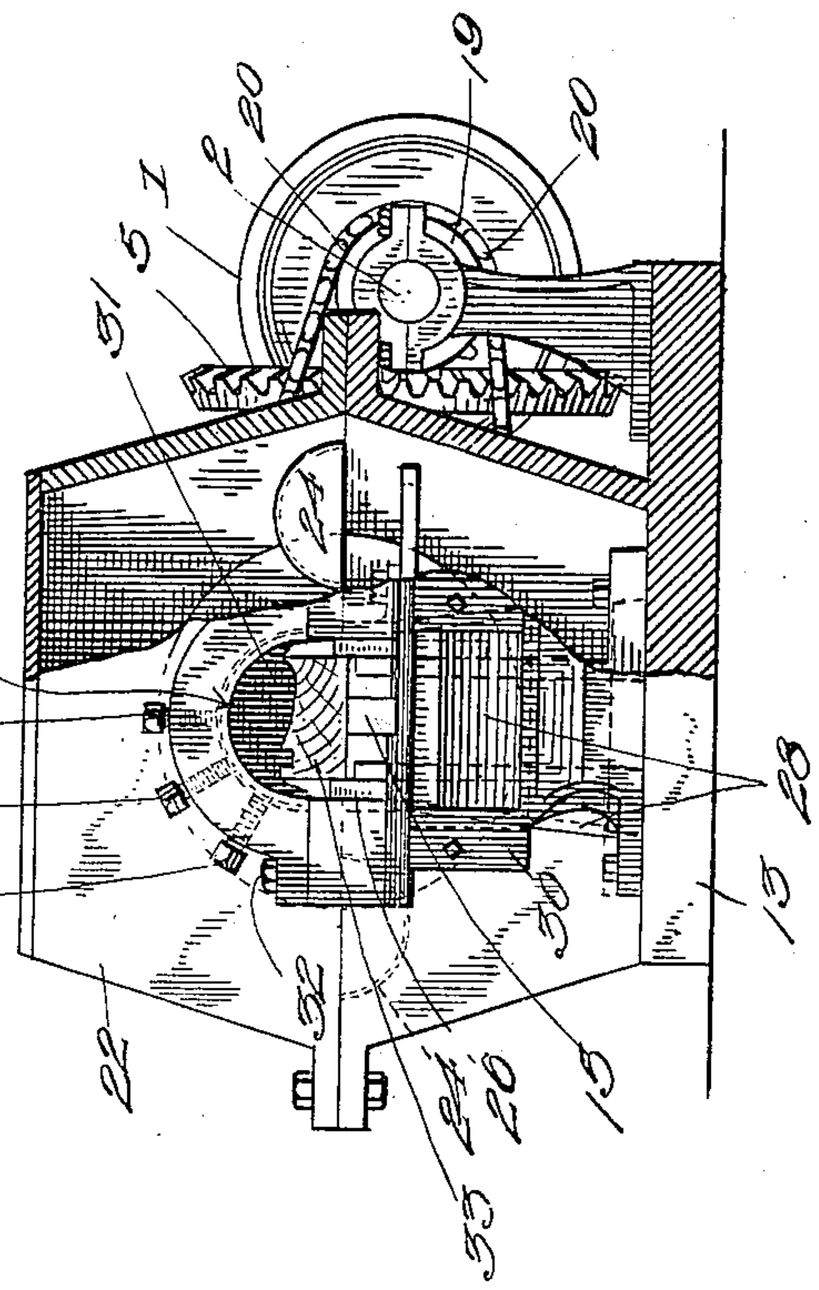
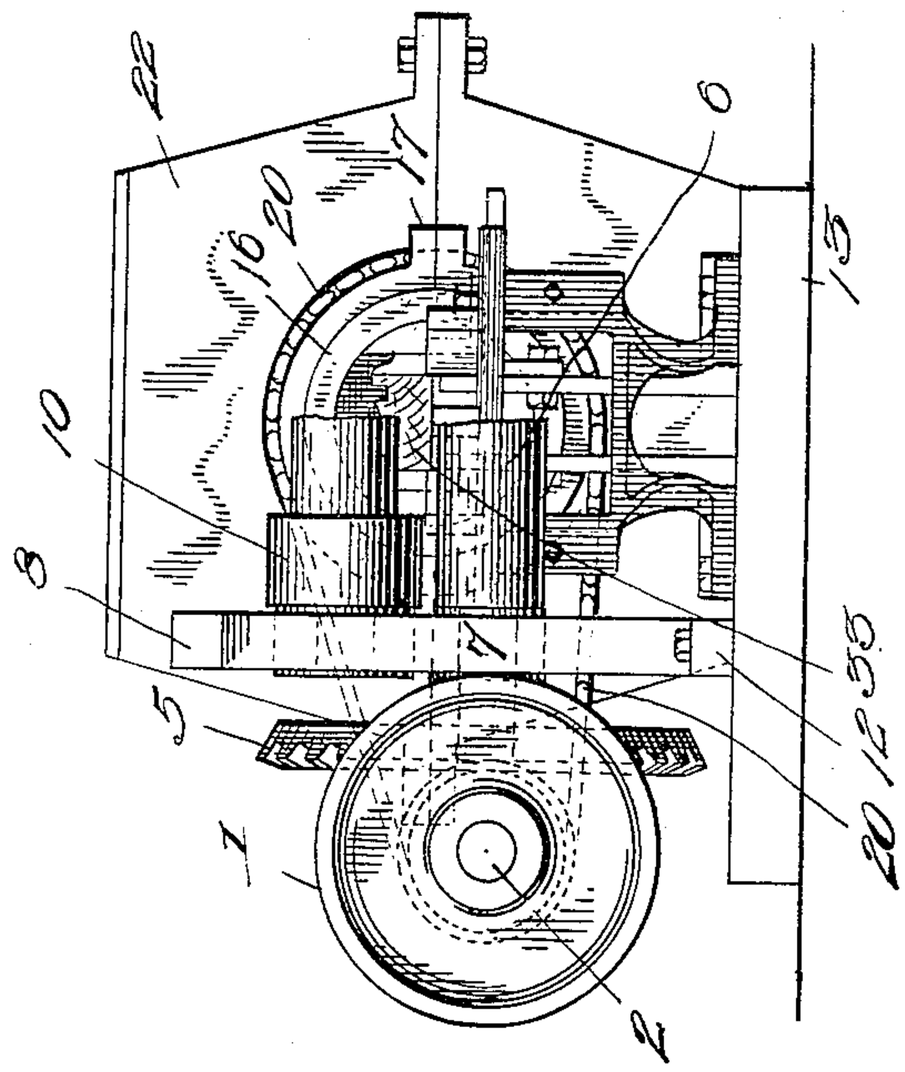


Fig. 3.



Witnesses:
Otto Baumrucker
Thos. J. Pelikan

Inventor:
Rudolph Frank Cermak
By Victor J. Evans
Atty

UNITED STATES PATENT OFFICE.

RUDOLPH FRANK CERMAK, OF CHICAGO, ILLINOIS.

MACHINE FOR PAINTING MOLDINGS.

SPECIFICATION forming part of Letters Patent No. 658,427, dated September 25, 1900.

Application filed September 25, 1899. Serial No. 731,648. (No model.)

To all whom it may concern:

Be it known that I, RUDOLPH FRANK CERMAK, of the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Picture-Frame-Molding-Polishing Machines, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in machines for shellacking and polishing picture-frame molding; and its primary object is to provide an efficient and durable device whereby molding of various forms may be thoroughly shellacked and polished mechanically.

To these ends the invention consists in providing a tank of suitable construction into which projects the end of a drum, to which are fastened buckets of suitable construction. A bed extends through the drum and tank to an aperture formed within the end standard, which aperture is provided with a strip of rubber or other similar material, the lower edge of which is adapted to conform to the contour of any molding which may be placed thereunder, and the same is placed in such position by means of screws, as will be hereinafter more fully described. Rollers are provided at the opposite end of the bed, and these are driven from a shaft, which also imparts motion by means of suitable gearing to the drum heretofore referred to. Guides of peculiar form are provided at opposite sides of the bed to prevent lateral movement of the molding when traveling thereon.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a plan view of the device. Fig. 2 is a side elevation thereof. Fig. 3 is a view of the feed end of the device; and Fig. 4 is an elevation, partly in section, of the opposite end.

Referring to said figures by numerals of reference, 1 is a pulley secured to a shaft 2, which is mounted within suitable bearings 3. A pinion 4 is mounted upon said shaft and meshes with a larger gear 5, secured to a roller 6, which is journaled within boxes 7, slidably mounted within standards 8. This roller is of any desired form and is provided at one end with a gear 9, which meshes with a similar gear secured to a roller 10, which is arranged within sliding boxes in the standards 8 at a point above the roller 6, before referred to. These boxes are each provided with springs 11, whereby the rollers 6 and 10 are normally held in contact with each other. Each standard 8 is provided with flanges 12 at the bottom thereof, which flanges are adapted to be secured to a base or floor 13, and sliding brackets 14 are also secured to said floor at opposite sides of a bed 15. This bed extends longitudinally of the machine and passes through a drum 16, which is journaled in standards 17 and which is provided with a sprocket 18. This sprocket receives motion from a sprocket 19, which is secured to the shaft 2 through a chain 20.

The drum is provided at its inner end with an annular flange 21, which rests within a receptacle or tank 22, which is divided into two similar compartments by a partition 23. Buckets 24 are secured to the flange 21 and revolve therewith within the receptacle. Brackets 25 are also fastened within this receptacle, and said brackets and the brackets 14 are secured to guides 26, arranged at opposite sides of the bed 15. The tank 22 is cut away at one end, as at 27, for the reception of bed 15, and a trough 28 extends upward from said cut-away portion 27 to opening 29, formed within the standards 30, and within which is located the end of the bed 15. Within this opening is located a strip 31, of rubber or other similar material, and a series of screws 32 are mounted within the standard at varying intervals and are adapted to bear upon the strip 31.

Molding, as 33, is fed between the rollers 6 and 10, and the same is carried forward thereby upon the bed 15 and between the guides 26 by the revolution of the shaft 2. At the same time the drum 16 is turned, carrying the buckets therewith. As the tank 22 is filled with shellac this shellac will be carried up by the buckets and discharged upon the molding as the same passes through the tank. This molding will continue to travel over the bed 15 and will be forced under the rubber strip 31, which will smooth and polish the

molding, as is obvious. This rubber is set to conform to molding of any contour by means of the screws 32, before referred to. It will be seen that all surplus shellae will be discharged back into the tank 22 by way of trough 28.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes and alterations as fairly fall within the scope of my invention.

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

1. The combination with a tank; of standards, a drum journaled within the standards, buckets within the tank and secured to the drum, a shaft, means for imparting motion from said shaft to the drum, normally-contacting rollers, standards for the rollers, means for imparting motion to said rollers from the shaft, and a bed extending from the rollers, through the drum and into the tank.

2. The combination with a tank; of a bed therein and projecting from opposite ends thereof, standards, a drum mounted upon the standards and surrounding the bed, an annular flange to the drum within the tank, buckets secured to the flange, a shaft, means for imparting motion from the shaft to the drum, rollers adjacent to the end of the bed, means for holding the rollers normally in contact, and means for imparting motion from the shaft to the rollers.

3. The combination with a tank having a trough at one end; of a bed extending longitudinally of the tank-trough, adjustable guides therefor, standards, a drum journaled therein and surrounding one end of the bed, an annular flange to the drum and within the tank, buckets secured to the flange, a shaft, means for imparting motion from said shaft to the drum, rollers, springs for holding the rollers normally in contact with each other, and means for imparting motion from the shaft to said rollers.

4. The combination with a tank; of a trough at one end thereof, a bed extending longitudinally of said tank-trough, a standard at the end of the trough having an opening therein for the reception of the bed, an elastic strip within the opening above the bed, means for shaping said strip to conform to the molding, a drum at the opposite end of the tank, standards therefor, a flange upon the inner end of the drum, buckets secured thereto, a shaft, and means for imparting motion from said shaft to the drum.

5. In a device of the character described, the combination of a tank, a hollow drum journaled at one side thereof and projecting partially thereinto, buckets attached to the drum and adapted to rotate therewith within the tank so as to drop thereinto, a bed extending longitudinally of the tank and through the drum, guides at opposite sides thereof, a standard having an opening therein, an elastic strip within the opening, screws within the standard adapted to contact with the strip and hold the same in position to conform to the shape of the molding, and a trough below the path of the molding and adapted to receive the excess of shellac.

RUDOLPH FRANK CERMAK.

Witnesses:
OTTO BAUMRUCKER,
THEO. J. PELIKAN.