

No. 778,555.

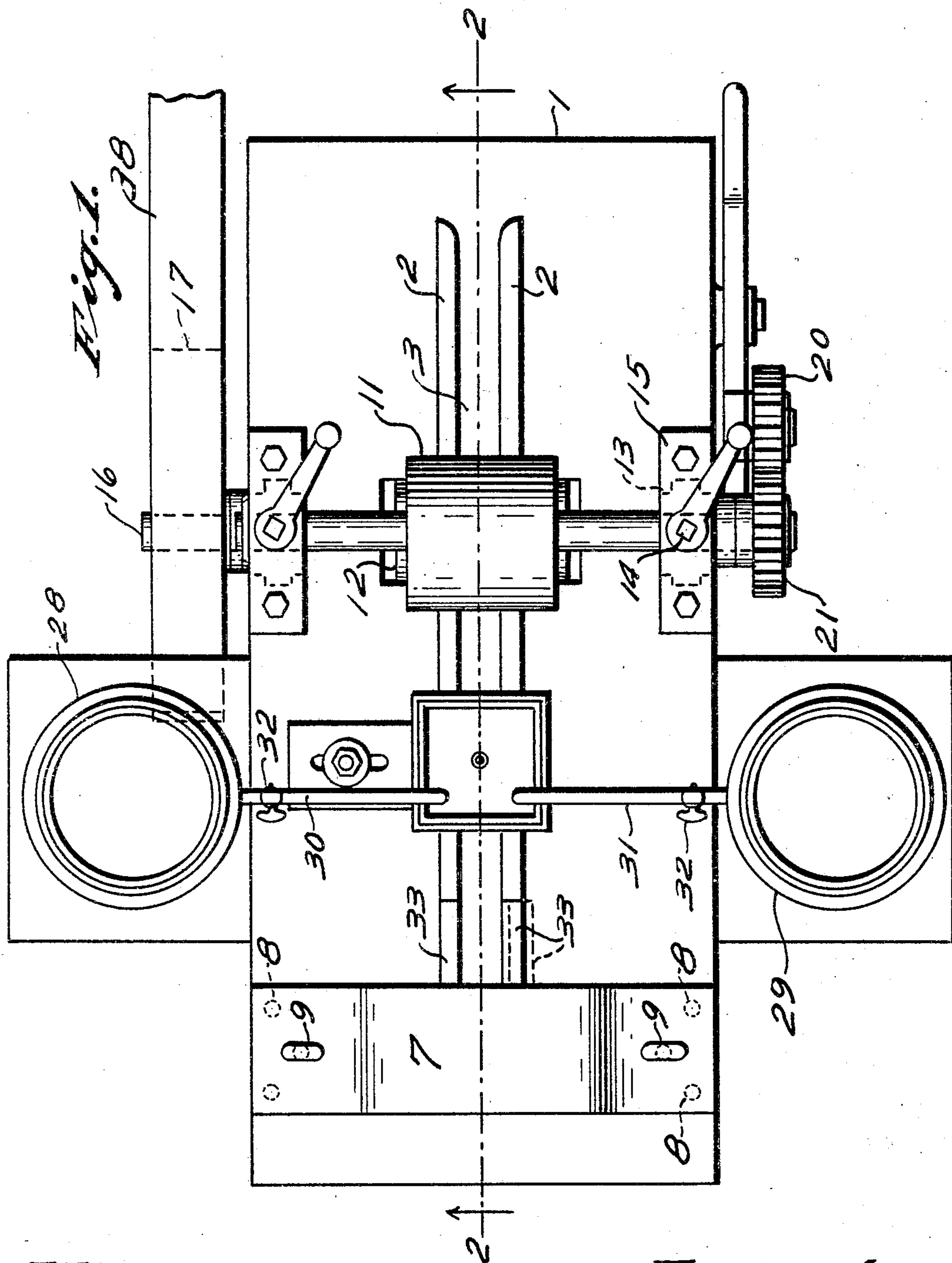
PATENTED DEC. 27, 1904.

A. SOWINSKI.

MACHINE FOR SIZING AND VARNISHING MOLDINGS.

APPLICATION FILED FEB. 20, 1904.

3 SHEETS—SHEET 1.



Witnesses:

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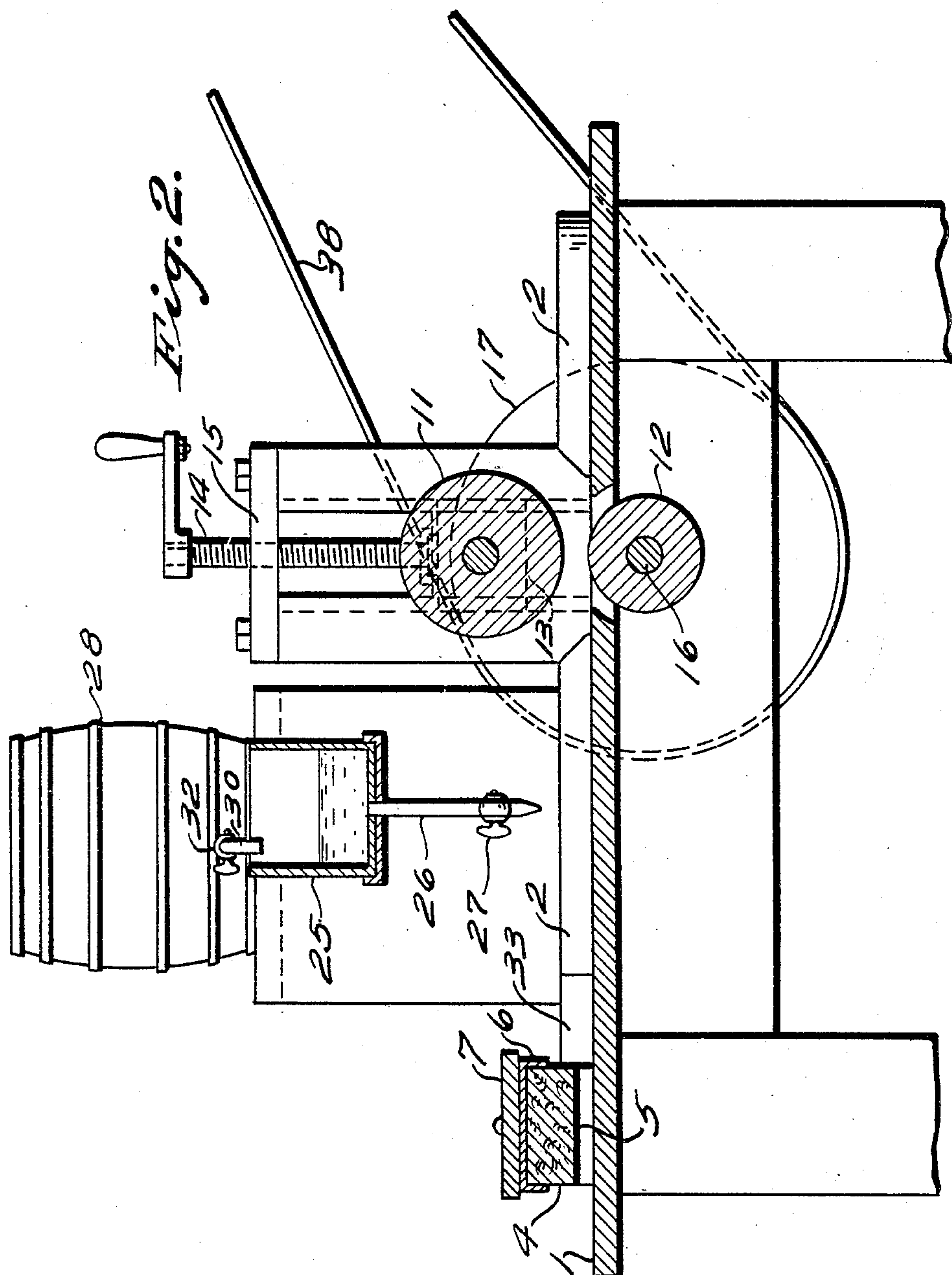
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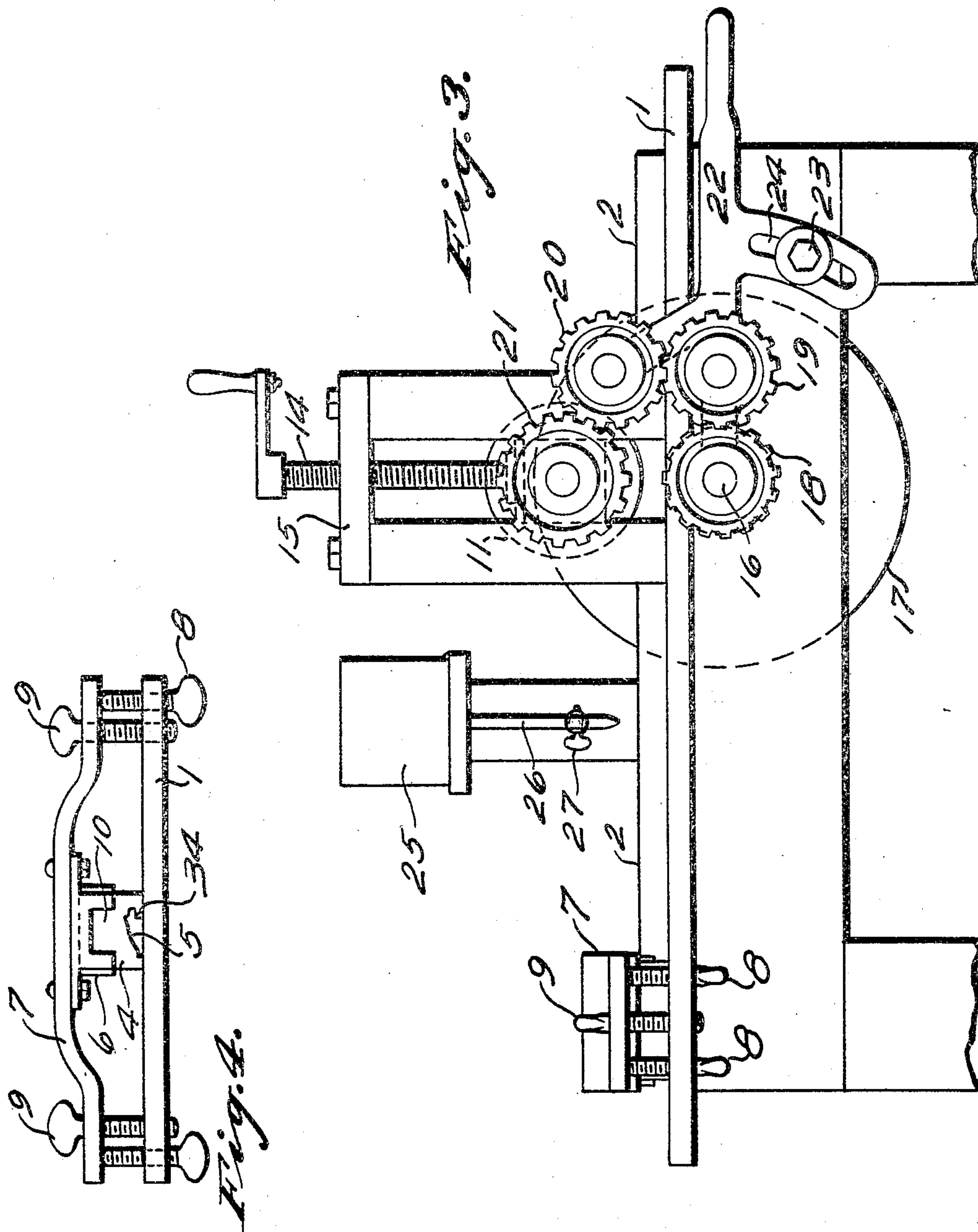
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

ANTON SOWINSKI, OF CHICAGO, ILLINOIS.

MACHINE FOR SIZING AND VARNISHING MOLDINGS.

SPECIFICATION forming part of Letters Patent No. 778,555, dated December 27, 1904.

Application filed February 20, 1904. Serial No. 194,562.

To all whom it may concern:

Be it known that I, ANTON SOWINSKI, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Machines for Sizing and Varnishing Moldings, of which the following is a specification.

The main object of my invention is to provide an improved sizing and varnishing machine, which is particularly adapted for sizing or filling and varnishing moldings without requiring the rubbing in of the sizing or filler by hand or the applying or smoothing of the varnish by means of brushes. I accomplish this object by the device shown in the accompanying drawings, in which—

Figure 1 is a top plan of a machine constructed according to my invention. Fig. 2 is a vertical section of the machine, taken on the line 2 2 of Fig. 1. Fig. 3 is a side elevation of the device shown in Fig. 1. Fig. 4 is a front elevation of the varnish-spreading device.

In the structure shown the table 1 is provided with a pair of guide-strips 2, forming a guideway 3 for a strip of molding. A spreader 4 is secured above and across the guideway 3 and has its under surface, as shown at 5 in Fig. 4, formed to fit the surface of the molding which is to be sized and varnished. The spreader 4 is formed of a slightly-resilient block of rubber, which has the part 10 forced into the metal casing 6. The casing 6 is bolted to the cross-piece 7, which is adjusted upon the table 1 by means of the screws 8 and 9. All of said screws are threaded into the table 1. The screws 9 hold the cross-piece 7 firmly down upon the upper ends of the screws 8. The screws 9 fit loosely through the cross-piece 7, so as to permit said cross-piece to be tilted toward either side or end in adjusting same up and down to increase or decrease the pressure of the surface 5 upon the molding or to compensate for any wear on the surface 5 of the spreader.

Feed-rollers 11 and 12 are journaled to the table 1 above and below the guideway 3. The feed-roller 11 is preferably made of slightly-resilient rubber similar to the material of the

spreader 4 and bears upon the upper surface of the molding in feeding same toward the spreader. The roller 11 is journaled in the vertically-movable bearing-blocks 13, which are raised and lowered by means of the screws 14, threaded into the cross-pieces 15 of the framework extending above the table. The shaft 16, carrying the roller 12, has mounted thereon the pulley 17, which is driven through the belt 38, connected with suitable power. The roller 13 is driven through the gears 18, 19, 20, and 21. The gears 19 and 20 are journaled on the member 22, which is adjustable on its axis at the shaft 16 by means of the bolt 23, which is secured to the table. The member 22 has a slot 24 therein, permitting the adjustment of the member 22 to compensate for the vertical adjustment of the roller 11 by means of the screw 14.

The tank 25 for receiving the sizing or varnish is located above the guideway and has a depending feeding-tube 26, with a stop-cock 27 therein for regulating the flow of the sizing or varnish upon the molding. The tank 25 is connected with separate storage vessels 28 and 29 by means of the pipes 30 and 31, each of which is provided with valves 32 for controlling the flow of liquid from such vessels. One of said vessels is intended for holding varnish, while the other is intended for holding the liquid filler or sizing. The guide-strips 2 have movable sections 33, which may be moved to the position indicated by the dotted lines in Fig. 1, so as to permit the sizing or varnish to accumulate at the side of the molding, and thus provide for varnishing the part of the molding indicated at 34 in Fig. 4.

The operation of the device shown is as follows: The molding is fed into the machine from the right of Fig. 1 and is carried along by the feed-rollers and forced through the space at the bottom of the spreader 4, (shown at 5 in Fig. 4.) The spreader 4 is adjusted to the surface of the molding when the first piece of a certain pattern is placed in the machine. The feeding mechanism will be stopped during such adjustment. The operator will adjust the stop-cock 27 to provide for the proper flow of filler or sizing upon the molding and

may then continue to feed to the machine different strips of molding of the same pattern. After the molding is sized or filled the operator will draw off the sizing material remaining in the tank 25, closing the valve 32 of the vessel containing the sizing, and will then open the valve leading to the varnish vessel and regulate the flow of varnish by means of the stop-cock 27. He will then pass the sized or filled moldings through the machine in a similar manner, as before described. The surface of the spreader 4 bearing against the surface of the molding at the desired pressure holds back the surplus varnish, so that the molding is received from the machine with a uniform coating of varnish. The adjustment of the cross-piece 27, carrying the spreader 4, will regulate the thickness of such coating. Other blocks or spreaders 4 will be substituted for moldings of different form, the spreading-surface of such blocks being formed to fit the moldings.

It will be understood that some of the details of the structure shown may be altered without departing from the spirit of my invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a machine of the class described, the combination of a frame; a platform mounted thereon for slidably supporting the molding; guides for the side edges of the molding; means for feeding the molding along said platform; a spreader secured above said platform, having its under surface formed to fit the upper surface of the molding, and being secured to have contact therewith; a feeder located to feed sizing or varnish upon the molding in advance of the spreader; said spreader being adjustable vertically and angularly above the molding and having its under surface, for contact with the molding, made of rubber or similar resilient material, substantially as described.

2. In a machine of the class described, the

combination of a frame; a platform mounted thereon for slidably supporting the molding; guides for the side edges of the molding; means for feeding the molding along said platform; a cross-bar mounted in the frame above the platform, said cross-bar being adjustable toward and away from the platform and being angularly adjustable relatively of the platform, both laterally and longitudinally of the molding; a spreader rigidly secured to said cross-bar and having its under surface formed to fit the upper surface of the molding and being secured to have contact and bear upon all points thereof; a feeder located to feed sizing or varnish upon the molding in advance of the spreader; said spreader having its under surface for contact with the molding made of rubber or similar resilient material, and being adjustable through the movement of said cross-bar, substantially as described.

3. In a machine of the class described, the combination of a frame; a platform mounted thereon for slidably supporting the molding; guides for the side edges of the molding; means for feeding the molding along said platform; a cross-bar mounted in the frame above the platform and disposed transversely of the path of the molding; the screws 9 for loosely supporting the ends of the cross-bar; the screws 8 bearing between the frame and cross-bar for controlling the angular adjustment of the cross-bar; a spreader rigidly secured to said cross-bar and having its under surface formed to fit the upper surface of the molding; a feeder located to feed sizing or varnish upon the molding in advance of the spreader; said spreader having its under surface for contact with the molding made of rubber or similar resilient material, substantially as described.

Signed at Chicago this 15th day of February, 1904.

ANTON SOWINSKI.

Witnesses:

WM. R. RUMMLER,
RUDOW RUMMLER.