

No. 681,961.

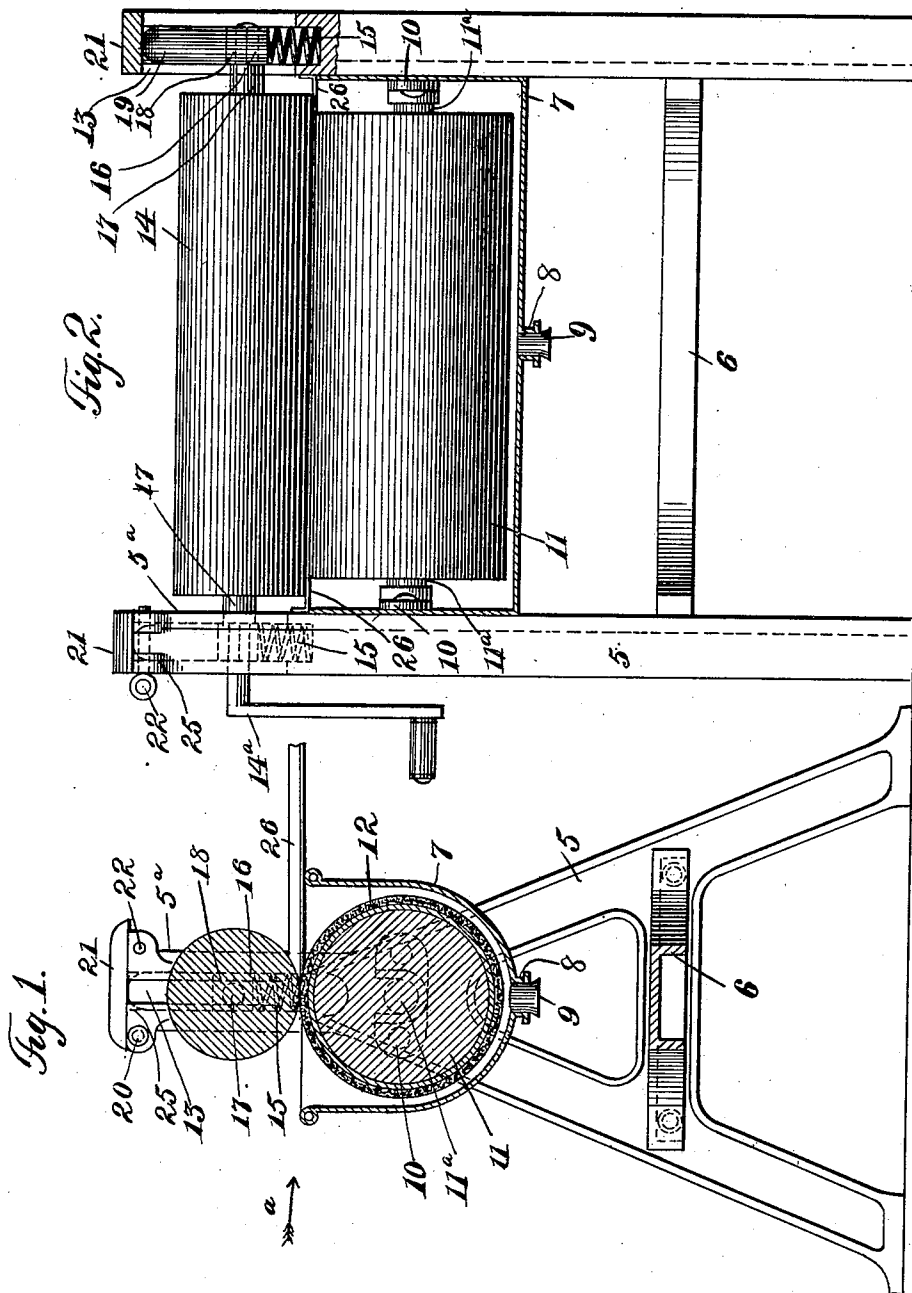
Patented Sept. 3, 1901.

J. E. FLITCROFT.
MACHINE FOR PAINTING TIN.

(Application filed Mar. 19, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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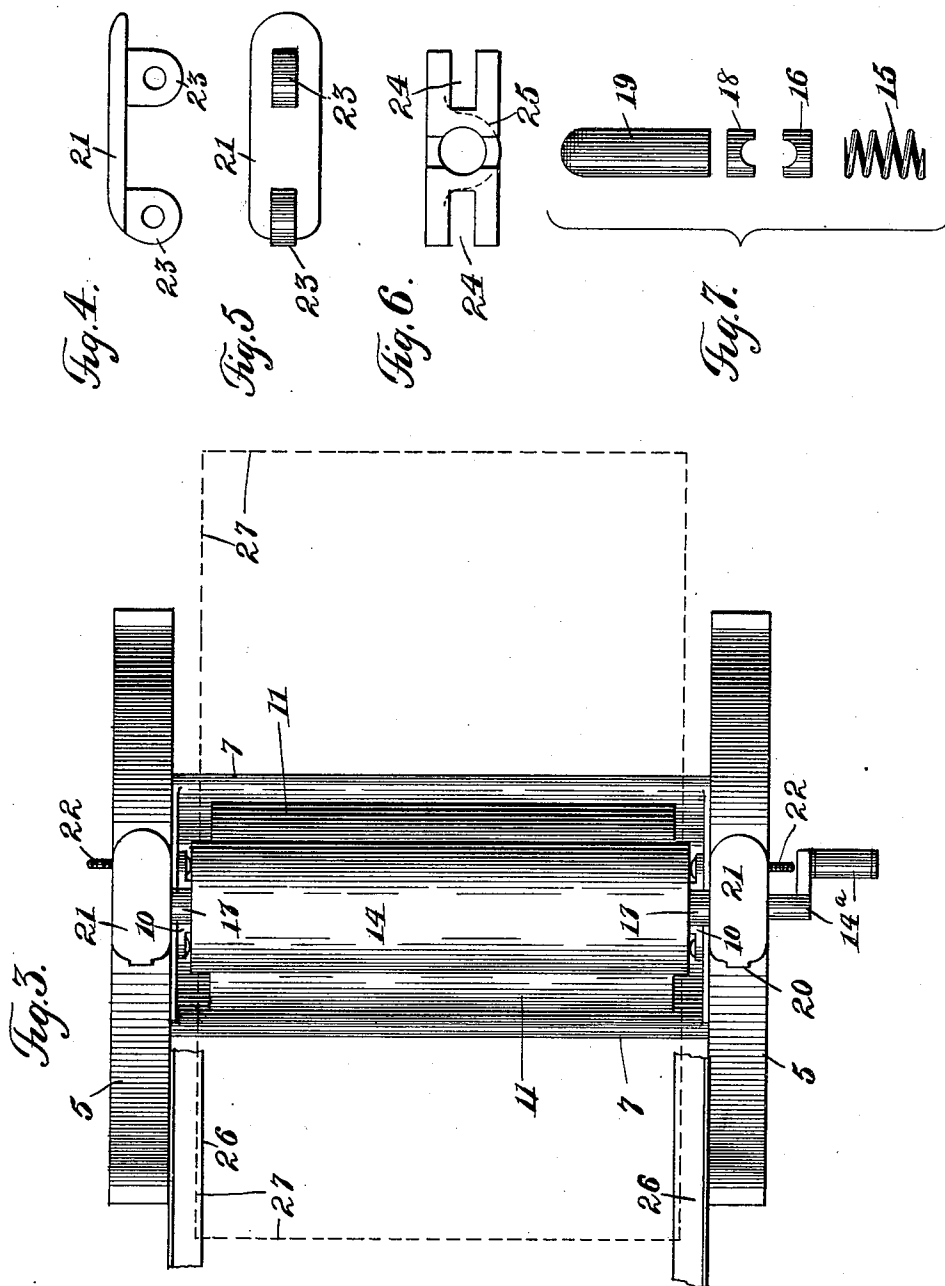
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UNITED STATES PATENT OFFICE.

JAMES E. FLITCROFT, OF OCEAN GROVE, NEW JERSEY, ASSIGNOR OF TWO-THIRDS TO GEORGE W. O'BRIEN AND JOHN T. REID, JR., OF SAME PLACE.

MACHINE FOR PAINTING TIN.

SPECIFICATION forming part of Letters Patent No. 681,961, dated September 3, 1901.

Application filed March 19, 1901. Serial No. 51,853. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. FLITCROFT, a citizen of the United States, residing at Ocean Grove, in the county of Monmouth and State of New Jersey, have invented certain new and useful Improvements in Machines for Painting Tin, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to machines for painting one side of sheet-tin used for roofing purposes; and the object thereof is to provide an improved machine of this class which is simple in construction and operation and by means of which sheet-tin used for roofing or other purposes may be quickly and easily painted on one side; and with this and other objects in view the invention consists in a machine of the class specified, constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same reference characters in each of the views, and in which—

Figure 1 is a transverse section of a machine made according to my invention; Fig. 2, a side view of the machine; Fig. 3, a plan view thereof; Figs. 4 and 5, side and bottom plan views, respectively, of a detail of the construction; Fig. 6, a plan view of another detail of the construction, and Fig. 7 a side view of other details of the construction.

In the practice of my invention I provide a frame consisting of two upright end portions 5, rigidly connected by means of a transverse frame member 6 and by other suitable devices, if desired, and mounted in this frame is a trough 7, open at the top and provided in the bottom with a discharge-pipe 8, which, as shown in the drawings, is closed by a plug 9, but which may be closed by a valve or any other suitable device. In each end of the trough 7 is secured a bearing 10, and said trough is provided with a roller 11, the shaft or shafts 11^a of which are supported in the bearings 10, and the trough 7 is designed to

receive paint, and the roller 11 is provided with a covering 12 of thick or heavy fabric, preferably composed of wool, a piece of carpet being preferably employed for this purpose.

The sides 5 of the main frame are projected above the trough 7 or provided with upwardly-directed extensions 5^a, which are provided with vertically-arranged openings 13, and I also provide a supplemental or top roller 14, the shaft or shafts of which pass into or through the openings 13 in the top extensions 5^a of the sides of the main frame, and in the bottom of these openings are placed springs 15, on each of which is placed a bearing-block 16, on which the shaft or shafts of the roller 14 rest, and over said shaft or shafts is placed another bearing-block 18, and mounted in the openings 13 above the bearing-blocks 16 and 18 is a vertically-movable pin 19.

Pivoted to one side of each of the upwardly-directed extensions 5^a of the main frame, as shown at 20, is a cap 21, and these caps are adapted to be swung down into position, as shown in Figs. 1 and 2, and to be bolted to the opposite side of the upwardly-directed extension 5^a of the main frame, as shown at 22, and the caps 21 are provided with downwardly-extending shoulders or projections 23, which enter corresponding recesses 24 in the heads 25 of the upwardly-directed extensions 5^a of the main frame. When the caps 21 are raised or thrown backwardly, the springs 15 force the top roller 14 upwardly and out of contact with the bottom roller 11, and when said caps 21 are turned down and bolted in position, as shown in Figs. 1 and 2, they bear on the vertically-movable pins 19, and thus depress the top roller into connection with the roller 11. The bottom roller 11 is shorter than the top roller 14, as clearly shown in the drawings, the object of this construction being to paint one side of a sheet of tin, except adjacent to the edge thereof, so as to form a narrow strip of the tin which will not be painted, and the width of this strip will depend on the difference between the lengths of the rollers 11 and 14.

The main frame is also provided at the front of the machine or in the direction in which the sheets of tin are fed with projecting arms 26, which receive the tin after it 5 passes between the rollers, as hereinafter described, and from which the sheets of tin may be removed by hand or in any desired manner.

The operation will be readily understood from the foregoing description when taken in 10 connection with the accompanying drawings and the following statement thereof.

The upper roller 14 is provided with a crank 14^a, by which it may be turned, and the turning of this roller also turns the bottom roller 15 11, and in practice the sheets of tin, one of which is indicated in dotted lines at 27 in Fig. 3, are successively fed through the machine between the rollers 11 and 14 in the direction of the arrow *a* of Fig. 1, and as the 20 said sheets pass between said rollers the bottom of the sheets is painted by the roller 11, except at the edges thereof, and the said sheets pass out onto the arms 26, from which they may be removed either by hand or in any 25 desired manner, as hereinbefore described.

It will be observed that both of the rollers 11 and 14 are removable from the main frame, and said rollers may be removed whenever 30 desired and may also be conveniently replaced when necessary.

The machine is simple in construction and operation and perfectly adapted to accomplish the result for which it is intended, and it will be apparent that changes in and modifications of the construction herein described 35 may be made without departing from the spirit of my invention of sacrificing its advantages.

Having fully described my invention, what I claim as new, and desire to secure by Letters 40 Patent, is—

1. A machine of the class described, comprising a main frame, a trough secured therein, a roller mounted on said trough and removable therefrom, another roller mounted 45 above the first-named roller and longer than said first-named roller and adapted to bear thereon, said last-named roller being provided with spring-supported bearings, and means for depressing the same the main frame 50 being also provided at the front thereof with projecting arms adapted to receive material passing between said rollers, substantially as shown and described.

2. A machine of the class described, comprising a main frame, a trough secured therein, a roller mounted in said trough and removable therefrom and provided with a fabric covering, a second roller mounted above 55 the first-named roller and adapted to bear thereon, said second roller being longer than the first-named roller and being provided with spring-supported bearings, and means for depressing the same, said machine being 60 also provided at the front thereof with projecting arms adapted to receive material passed between said rollers, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 7th 70 day of March, 1901.

JAMES E. FLITCROFT.

Witnesses:

T. A. STEWART,
L. R. BAYER.