

No. 613,069.

Patented Oct. 25, 1898.

G. MOLLA.
CRIMPING MACHINE.

(Application filed Mar. 26, 1898.)

(No Model.)

Fig. 1.

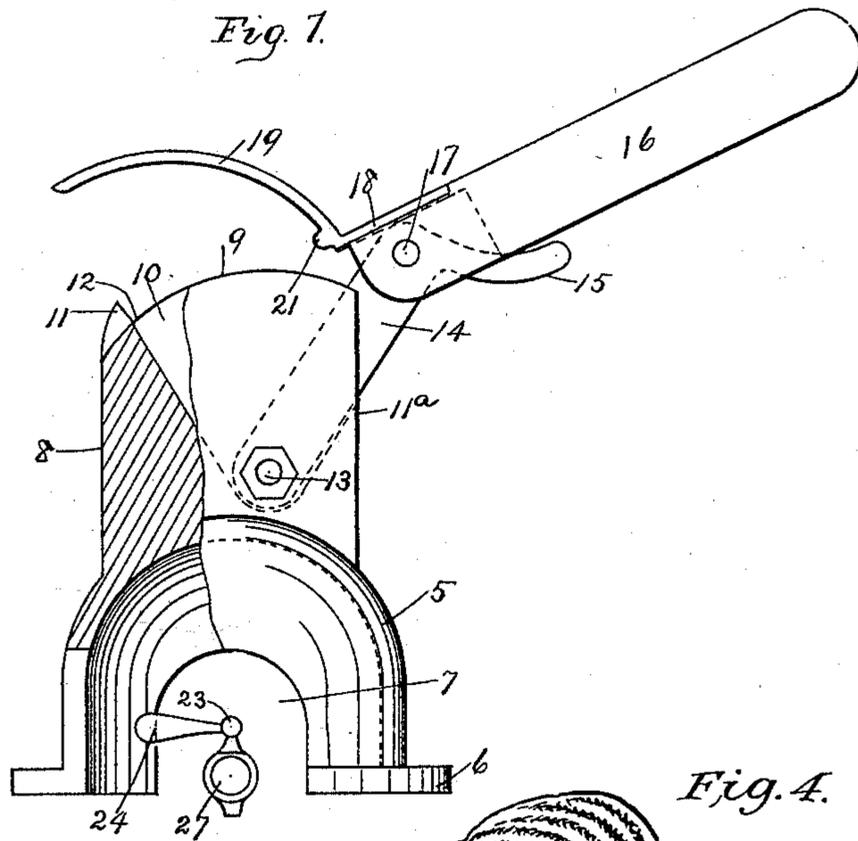


Fig. 4.

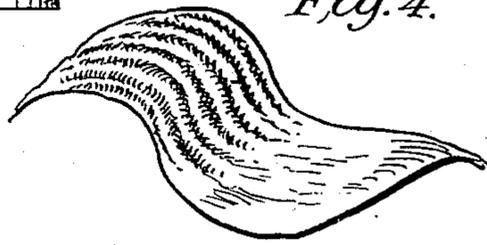


Fig. 3.

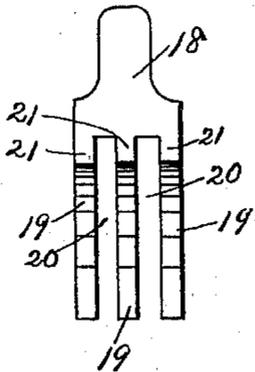
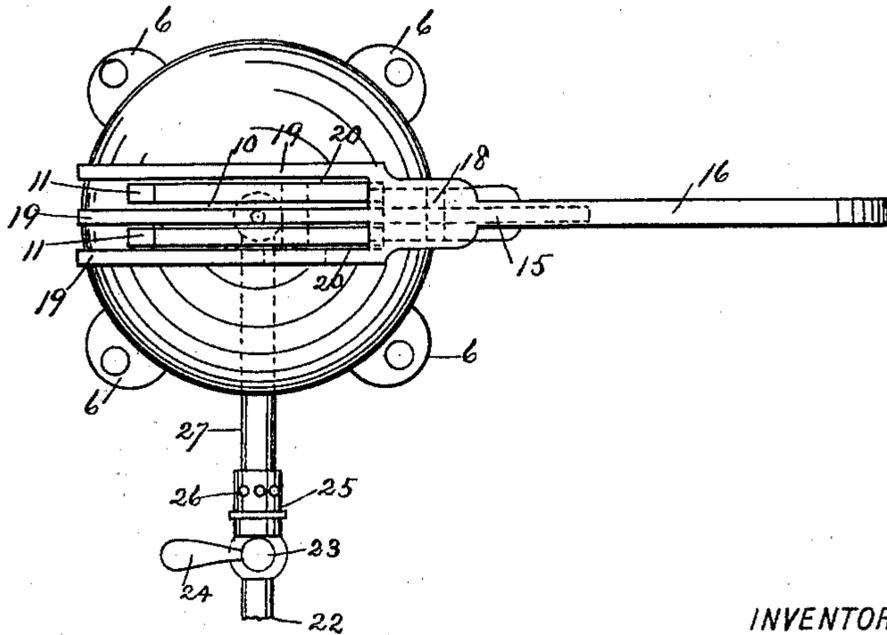


Fig. 2.



WITNESSES

Wm. L. McJannet.
L. M. Muller

INVENTOR

Gioachino Molla

BY

Edgar Tate & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

GIOACHINO MOLLA, OF NEW YORK, N. Y.

CRIMPING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 613,069, dated October 25, 1898.

Application filed March 26, 1898. Serial No. 675,287. (No model.)

To all whom it may concern:

Be it known that I, GIOACHINO MOLLA, a subject of the King of Italy, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Crimping-Machines, 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 crimping-machines; and the object thereof is to provide an improved device of this class which is adapted for use in crimping textile or other material for use in making artificial flowers.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a sectional side view of my improved crimping-machine; Fig. 2, a plan view thereof. Fig. 3 is a bottom plan view of a detail of the construction, and Fig. 4 a perspective view of the piece of cloth crimped by my improved machine.

In the drawings forming part of this specification the separate parts of my improvement are designated by numerals of reference in each of the views, and in the practice of my invention I provide a hollow conical or hemispherical base 5, having outwardly-directed feet 6 and open at both sides or provided at its opposite sides with an opening 7.

The base 5, which is composed of iron, is provided with an upwardly-directed extension 8, the upper portion of which is circular in form, as shown at 9, and said upper portion is provided with a triangular slot or opening 10, at each side of the back of which is an upwardly-directed projection 11, and the triangular slot or opening 10 extends downwardly to near the bottom of the upwardly-directed extension 8 and opens upwardly and forwardly at 11^a and backwardly and upwardly at 12, and pivoted in the bottom of said slot or opening at 13 is a lever 14, the upper end of which is provided with a forwardly and downwardly directed arm 15, and I also provide a supplemental hand-lever 16, which is pivoted to the lever 14 at 17 by means of a slot formed in said supplemental hand-lever or the end thereof and a pivot pin or bolt which passes therethrough, and se-

cured to the upper side of the inner end of the hand-lever 16 is a plate 18, which is provided with three curved fingers or prongs 19, which extend outwardly and backwardly over the upwardly-directed extension 8 of the base 5, and between the fingers or prongs 19 are slots 20, and at the ends of each of said fingers or prongs adjacent to the plate 18 are downwardly-directed teeth or projections 21, three of which are employed.

The object of the downwardly and forwardly directed arm 15 is to support the supplemental hand-lever or handle 16, as shown in Fig. 1, and prevent it from dropping or hanging downwardly on its pivotal connection at 17.

In the use of this device it is secured to a table or other support by means of the feet 6, and gas is conveyed within the base 5 by means of a gas-supply tube 22, having a valve 23, provided with a handle 24, and air is admitted to said tube by means of a tube 25, provided with perforations 26; but this tube may consist of an ordinary Bunsen burner and its connections, and the burner-tube 27 terminates at about the center of the base 5, and in practice the gas is ignited and burns until the base 5 and the upwardly-directed extension 8 thereof are thoroughly heated. The side walls of the slot or opening 10, the upper curved surfaces of which are shown in Fig. 1, also become heated, and at the proper time the material to be crimped is placed transversely over the top of said side walls and over the slot or opening 10, the rear edge thereof resting against the upwardly-directed teeth or projections 11. The hand-lever 16 is then raised and forced backwardly, and in this operation the fingers or prongs 19 are forced downwardly over the top of the side walls of the slot or opening 10, and the teeth or projections 11 pass upwardly through the slots between said fingers or prongs, as shown in Fig. 2. In this operation the teeth or projections 21 pass down between and at the sides of the curved tops of the side walls of the slot or opening 10 and in front of the material to be crimped. The hand-lever 16 is then forced backwardly, and the material to be crimped, while being held in contact with the top of the side walls of the slot or opening 10, is also forced backwardly by the teeth

or projections 21 against the upwardly-directed teeth or projections 11 and is crimped, as will be readily understood and as shown in Fig. 4.

5 Any suitable form of burner may be employed for heating the base 5, and it will thus be seen that I accomplish the object of my invention by means of a device which is simple in construction and operation and one
10 which is also well adapted to accomplish the result for which it is intended.

It will be apparent that changes in and modifications of the construction herein described may be made without departing from
15 the spirit of my invention, and I reserve the right to make all such alterations therein as fairly come within the scope of the invention.

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

1. A crimping-machine, comprising a hollow base and means for heating the same, said base being provided with an upwardly-directed extension the top of which is circular in form or curved, and provided with a
25 slot or opening which opens upwardly and backwardly and forwardly through the top of said extension, and the front wall thereof, a lever pivoted in the bottom of said opening, a hand-lever pivoted to the upper end
30 thereof, said upwardly-directed extension being provided at the rear edge of said slot or opening with upwardly-directed teeth or projections, and said hand-lever with backwardly-directed curved fingers which are provided at
35 their base each with a downwardly-directed tooth or projection, substantially as described.

2. A crimping device, comprising a hollow base provided with an upwardly-directed extension the top walls of which are curved or circular in form, said extension being provided with a vertical slot or opening which opens upwardly and forwardly, a lever pivoted in the bottom of said opening and extending
40 upwardly therethrough, a hand-lever pivotally connected therewith, and provided with backwardly-curved fingers each of which is provided at its base with a downwardly-directed tooth or projection, said upwardly-directed extension being also provided rearwardly of said slot or opening with teeth or
45 projections, substantially as described.

3. A crimping-machine, comprising a hollow base provided with a burner and with an
55 upwardly-directed extension in the top of which is a vertical slot or opening, said upwardly-directed extension being provided with a curved or circular top, and rearwardly of said opening with upwardly-directed teeth
60 or projections, a lever pivoted in the bottom of said opening and projecting upwardly therethrough, a hand-lever pivotally connected with the upper end thereof and provided

with upwardly and backwardly curved fingers or prongs each of which is provided at
65 its base with a downwardly-directed tooth or projection, substantially as described.

4. A crimping device, comprising a hollow base provided with an upwardly-directed extension the top walls of which are curved or
70 circular in form, said extension being provided with a vertical slot or opening which opens upwardly and forwardly, a lever pivoted in the bottom of said opening and extending upwardly therethrough, a hand-lever pivotally connected therewith, and provided with
75 backwardly-curved fingers each of which is provided at its base with a downwardly-directed tooth or projection, said upwardly-directed extension being also provided rearwardly of said slot or opening with teeth or
80 projections, and said first-named lever being also provided with a downwardly and forwardly curved arm, substantially as shown and described.

5. A crimping-machine, comprising a hollow base and means for heating the same, said base being provided with an upwardly-directed extension in the top of which is a slot or groove, said upwardly-directed extension being also provided with a curved or
85 circular top, and rearwardly of said slot or groove with upwardly-directed teeth or projections, a lever pivoted to said upwardly-directed extension, a supplemental hand-lever pivotally connected with said first-named
90 lever and provided with upwardly and backwardly directed curved fingers or prongs, each of which is provided at its base with a downwardly-directed tooth or projection, substantially as shown and described.

6. A crimping-machine, comprising a hollow base and means for heating the same, said base being provided with an upwardly-directed extension having a curved or segmental top, and a slot or groove in said top, and upwardly-directed teeth or projections
95 at the rear end of said slot or groove, a lever pivoted to said upwardly-directed extension, a supplemental hand-lever pivotally connected with the free end of said lever and provided with upwardly and backwardly curved fingers or prongs, and downwardly-directed teeth or projections at the ends of
100 said fingers or prongs adjacent to said supplemental hand-lever, 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 25th
120 day of March, 1898.

GIOACHINO MOLLA.

Witnesses:

W. C. REED,
L. M. MULLER.