

UNITED STATES PATENT OFFICE.

THEOPHILUS ROOS, OF NEWARK, NEW JERSEY.

MOLD FOR THE MANUFACTURING OF HAIR-PINS.

No. 808,949.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed May 15, 1905. Serial No. 260,495.

To all whom it may concern:

Be it known that I, THEOPHILUS ROOS, a citizen of the United States, and a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Molds for the Manufacturing of Hair-Pins, of which the following is a specification.

My invention relates to molds for pointing the ends of hair-pins, and particularly to means whereby the blanks to be pointed may be quickly and readily placed in position.

For this purpose my invention consists, essentially, of the combination with a mold such as described in my prior patent, No. 781,024, of a toothed guide bar or templet adapted to be temporarily placed upon the lower die of the said mold to aid in readily placing the hair-pin blanks into proper position upon the lower die.

The nature of my invention will best be understood when described in connection with the accompanying drawings, in which—

Figure 1 is a top view showing the upper die removed and the templet and one blank in position. Fig. 2 is a top view of the mold, showing the blanks in position between the lower and upper dies. Fig. 3 is a sectional view of Fig. 1 on the line 3 3. Fig. 4 is a sectional view of Fig. 2 on the line 4 4.

Similar numerals of reference designate corresponding parts throughout the several views.

Referring now to the drawings, 10 is the lower die, and 11 the upper die, of the mold for pointing the hair-pin blanks 12, the upper die being shown composed of two separate bars. The lower die is provided with a series of grooves 13, pointed at both ends to conform with the desired point of the finished hair-pin and the upper only with the pointed groove. A transverse groove 14 is also provided in the lower die 10 to enable the pointed blanks to be quickly removed from the die. The blanks 12 from which the hair-pins are made are shown to consist of a tube made of plastic material 15 and reinforced, except at the ends, by a metallic core 16. For the purpose of quickly placing these blanks 12 with-

in the grooves 13 of the lower die, as shown in Figs. 1 and 3, I provide two guide-bars or templets 17, which are temporarily placed over the lower die 10, fitting the dowel-pins 18, as shown in Figs. 1 and 3, and which contain a series of square teeth 19 and recesses or notches 20, the latter being adapted to receive the blanks 12.

In placing the blanks within the lower die 10 a number of them are spread over the top of the die, and then by brushing the hand over them they quickly and readily fall into proper position upon the lower die, being guided and held by the notches 20. A weight 21 is then placed over the row of blanks, as shown in Fig. 3, to hold them in place while the templets are removed and replaced by the upper die 11, after which the blanks are pointed by subjecting the mold to pressure and heat.

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

1. The combination with a mold composed of an upper and lower die for simultaneously pointing the opposite ends of a number of hair-pin blanks in horizontal position, of an empty templet or guide-bar adapted to be temporarily placed upon the lower die of said mold to assist in placing the blanks into proper position for pointing and to be then exchanged for the upper die.

2. The combination with a mold composed of an upper and lower die for simultaneously pointing the opposite ends of a number of hair-pin blanks in horizontal position, of an empty templet or guide-bar adapted to be temporarily placed upon the lower die of said mold and provided with recesses or notches adapted to guide said blanks into their proper positions upon the lower die, said templet to be then exchanged for the upper die.

Signed at Newark, in the county of Essex and State of New Jersey, this 12th day of May, A. D. 1905.

THEOPHILUS ROOS.

Witnesses:

AGNES GRAY,
J. B. DUSENBERRY