H. SCHEUERLE.

Making Clasps and Hooks.

No. 31,038. Patented Jan. 1, 1861.

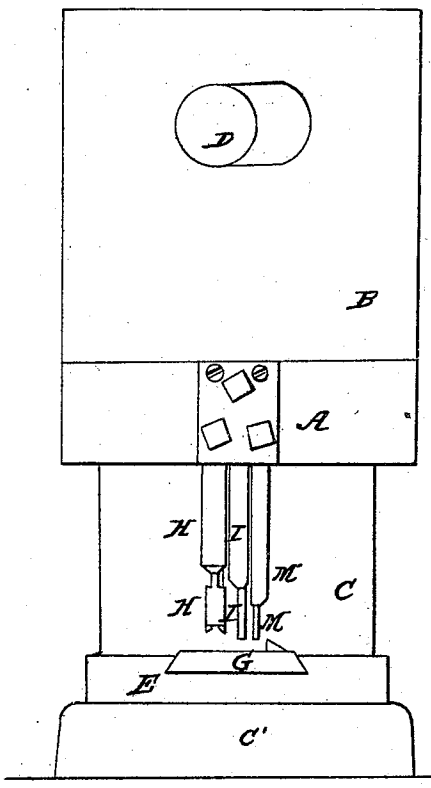


Fig. 1

Fig. 3

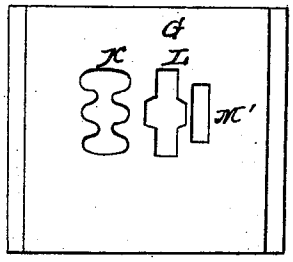


Fig. 2

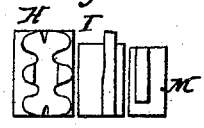


Fig. 5 Fig. 6.

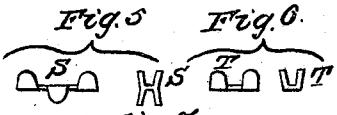


Fig. 7.

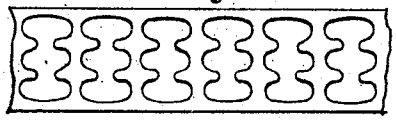


Fig. 8.

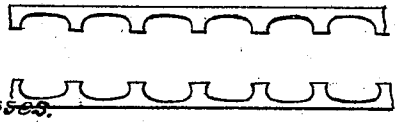
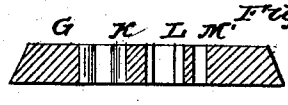


Fig. 4



Witnesses.
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UNITED STATES PATENT OFFICE.

HENRI SCHEUERLE, OF NEW YORK, N. Y.

PUNCH FOR MAKING SLIDES FOR HOOP-SKIRTS.

Specification of Letters Patent No. 31,038, dated January 1, 1861.

To all whom it may concern:

Be it known that I, HENRI SCHEUERLE, of the city, county, and State of New York, have invented a new and useful Improvement in Dies for Cutting and Forming Metallic Slides and Tips of Ladies' Hoop-Skirts, and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification.

Figure 1, is a front elevation of a press with the improved male and female dies secured therein. Fig. 2, is a view of the under part of the male dies, full size. Fig. 3, is a top view of the female die plate, also full size. Fig. 4, is a vertical section of the same. Fig. 5, represents a side and end view of one of the metallic slides produced by the first set of dies. Fig. 6, represents a side and end view of one of the tips produced by the third additional set of dies. Fig. 7, is a top view of a strip of sheet metal in the state it appears after the portions necessary for the slides have been punched or cut therefrom. Fig. 8, is a top view of the said strip of metal after the tips have been cut and formed therefrom.

Similar letters in the figures refer to corresponding parts.

This invention consists in securing in the same stock with the dies or punches at present employed for cutting and forming the slides of hoop skirts, an additional die or punch, and forming a corresponding female die, in the forming plate below the same, in such a manner as to cause the bodies of metal, heretofore thrown away, between the portions cut out by the first mentioned dies, to be cut and formed into tips for binding the ends of the bustle hoops, and for other purposes.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the press represented in Fig. 1, A, is the stock, in which the punching dies are secured, which projects from the lower portion of the plate B. This plate B, is dovetailed to a plate C, rising from a base plate C′, secured to the table, and receives an up and down motion in front of the plate C, through the agency of an eccentric cam D, secured at the end of the main driving shaft. On top of the portion of the base plate C′, immediately below the stock A, is secured a plate E, having dovetails next its upper surface, in which is inserted a corresponding dovetailed plate G, containing the female forming dies. The male dies or tools H, I, and their corresponding female dies K, L, are designed for cutting and forming the slides S, and are made and operated in every respect similar to those at present in use.

In the same stock with the other male dies H, I, I secure by the usual screw, an additional male die or tool M, of nearly the same thickness, and about two thirds the width of the die I, and in the female die plate G, and immediately below the die M, I make a corresponding die M′, of precisely the same length as the width of the die or tool M, and a little wider than its thickness, for the purpose of allowing the passage of the wings of the tip T, between the side surfaces of the two.

The lower surface of this additional die or tool M, is on the same horizontal plane with the lower surface of the die I, and is in such relation to the same, as to cause it to strike in its descent the body of metal immediately next the space cut out by the first set of dies H, K, at the same time that the second set of dies I, L, are forming the body of metal thus previously cut out.

From the foregoing it will be observed that at the time of cutting and forming into a slide the portion of the metal strip corresponding with the shape of the first set of dies H, K, the additional set of dies M, M′, are made to cut and form into a tip T, the body of metal between the corresponding portions previously cut out, and immediately in advance, and are thus not only instrumental in saving the metal between the said portions, from which the slides are formed, which heretofore went to waste, but also enable the press, at the same time that it is cutting and forming the slides, and without extra labor, to produce an equal number of tips from the strips of metal passed between the male and female dies. In this manner any size and form of tip, corresponding with the size and form of the first set of dies H, K, can be produced from the heretofore waste metal, the only precaution necessary being to make the additional set of dies M, M′, of the requisite

width and thickness to correspond with the intended length and width of the tips they are to cut and form.

What I claim as new and desire to secure by Letters Patent is—

Combining with the male and female dies H, I, K, L, for cutting and forming the slides from the strips of metal, the additional set of dies M, M′, for cutting and forming the tips from the portions of the metal strip which heretofore went to waste, as herein set forth.

HENRI SCHEUERLE.

Witnesses:
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