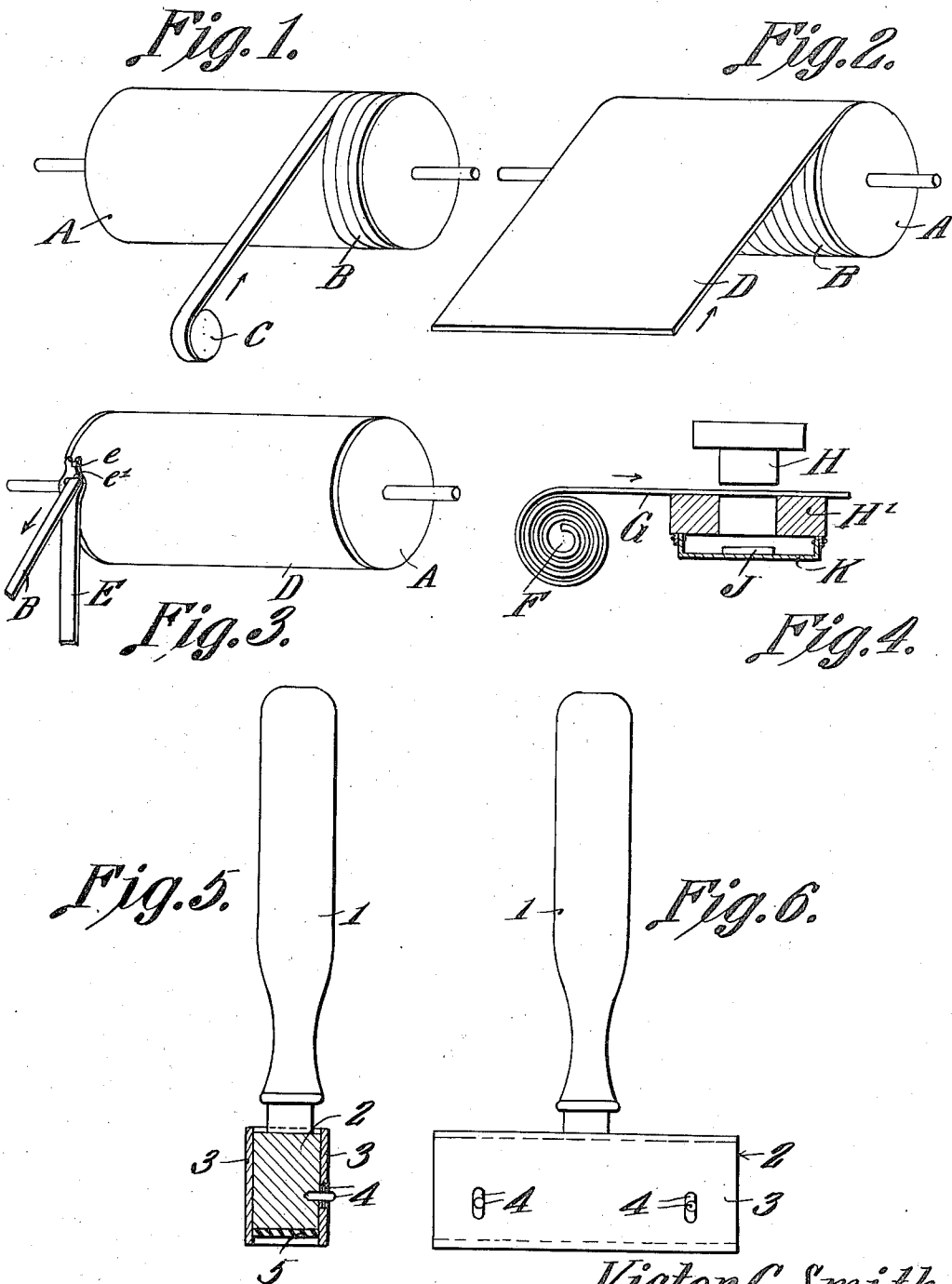


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METHOD OF FORMING COMPOSITE STRIPS FOR MAKING METALLIC LETTERS.
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Patented Apr. 16, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

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METHOD OF FORMING COMPOSITE STRIPS FOR MAKING METALLIC LETTERS.

1,023,527.

Specification of Letters Patent.

Patented Apr. 16, 1912.

Application filed May 22, 1911. Serial No. 628,699.

To all whom it may concern:

Be it known that I, VICTOR C. SMITH, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a new and useful Method of Forming Composite Strips for Making Metallic Letters, of which the following is a specification.

This invention relates to improvements in a method of forming a composite strip from which metallic letters and characters are made, the primary object of the invention being the provision of metallic letters, especially adapted for attachment to hat bands and such like soft or flexible material, said letter or characters being formed from a ribbon of thin metal, which is first wound spirally upon a cylinder, then coated with an adhesive substance in a liquid or semi-liquid state, and before permitting it to dry or harden, placing about the ribbon and cylinder a sheet of paper. The adhesive is now permitted to harden, and when dried, a layer of similar adhesive material in a liquid or semi-liquid state is applied to the outer surface of the paper upon the cylinder. When this coat of adhesive dries, the ribbon or metal is then removed or unwound, carrying with it, a strip of the paper substantially the same width as the ribbon of metal. Thus the metal may be stamped into letters or characters, and each will be provided with an adhesive means, whereby the individual letters or characters are readily attached to soft materials, such as leather, by slight moistening and application of pressure.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings:—Figure 1 illustrates the first step in the process. Fig. 2, the second step in the process. Fig. 3, the third step in the process. Fig. 4 is the fourth step in the process. Fig. 5 is a sectional view through the head of a tool especially adaptable for attaching these metal letters or

characters. Fig. 6 is a front elevation thereof.

Referring to the drawings, and taking the process from the first step, as in Fig. 1, A designates a spool or cylinder, upon which is spirally wound the thin metal ribbon B, from its spool C, and after the cylinder is wound to its fullest capacity, the outer surface of the ribbon is coated with a liquid or semi-liquid adhesive, and before it is permitted to dry or harden, the sheet D, of paper is wound about to cover the spiral ribbon and the cylinder containing it, the process of applying the paper D, being shown in Fig. 2. The adhesive is now permitted to harden or dry, and then the outer surface of the paper D, is coated with a similar adhesive substance, and allowed to harden or dry. After permitting this drying action, a tool as at E, provided with a clawed guiding end *e*, and a slot *e'*, has the end of the ribbon, and its adhering paper, passed therethrough, the pulling of the said ribbon thus formed, cutting the paper therewith in similar widths of ribbon to the metal ribbon, so that the ribbon of metal and paper is wound upon a spool as F, this step being clearly shown in Fig. 3. The metal ribbon and paper G, Fig. 4, is now passed between the co-acting dies H and H', and the letters or characters J, are cut or stamped from the ribbon, and fall into the receptacle K, to be used as hereinafter set forth.

The sheet or paper D, may be made of any fabric, which will readily carry an adhesive substance, and be itself attached firmly to the metallic ribbon, and where the word "paper" is used, any such fabric is intended to be used.

To attach the metal and fabric letters or character, the tool as shown in Figs. 5 and 6, is best employed, it consisting of the handle 1, the head or block 2, incased in the metal plates 3, which are slidably mounted by means of the pin-and-slot connections 4, to said block 2. Upon the lower face of the block 2, is attached the strip 5, of rubber or other cushioning material. In using this tool to affix or attach the letters or characters to a soft material such as leather in hat bands, the block 2 is drawn upwardly so that the parts assume the position, as shown in Fig. 5, the strip 5, now being moistened. The letters to be applied are now

placed with their adhesive side up and away from the rubber strip 5, their adhesive side now being moistened. The tool carrying the letters is now manipulated so that the lower edge of the metal casing thereof is placed in engagement with the material to which the letters are to be attached, and by finally pressing or forcing the block 2 downwardly, the letters are carried downwardly and into contact and engagement with the material to receive them. The tool is now lifted, and the letters remain attached to the material.

From the foregoing description taken in connection with the drawings, it is evident that by employing the process herein set forth, that metal letters or characters, for initialing hat bands, and the like, are provided, the same having means whereby they may be quickly and firmly attached to soft materials such as leather, felt, or any flexible material, where it is desired to attach metal letters by adhesion.

What is claimed, is:—

25 1. The herein described method of joining a fabric to a metal and forming the same into ribbons, consisting of winding a metal ribbon upon a cylinder, coating the outer surface thereof with an adhesive, surrounding the outer surface with a sheet of tearable fabric, coating the outer surface of said tearable fabric with an adhesive, and removing the ribbon and fabric by unwinding the metallic ribbon to simultaneously tear the sheet of fabric into corresponding width ribbons.

2. The herein described method of joining a fabric to a metal ribbon, consisting

of winding a metal ribbon upon a cylinder, coating the outer surface thereof with an adhesive, surrounding the outer surface with a sheet of paper, coating the outer surface of the paper with an adhesive, and removing the ribbon and paper by unwinding the metallic ribbon to simultaneously tear the paper into corresponding width ribbons.

3. The herein described method of joining a fabric to a metal and forming the same into ribbons, consisting of winding a metallic ribbon upon a cylinder, surrounding the outer surface with a sheet of tearable fabric adhesively attached to the surface of the ribbon, and removing the ribbon and fabric by unwinding the metallic ribbon to simultaneously tear the sheet of fabric and remove a coextensive strip.

4. The herein described method of joining a fabric to a metal and forming the same into ribbons, consisting of winding a metallic ribbon upon a cylinder, surrounding the outer surface with a sheet of tearable fabric adhesively attached to the surface of the ribbon, coating the outer surface of said tearable fabric with an adhesive, and removing the ribbon and fabric by unwinding the metallic ribbon to simultaneously tear the sheet of fabric and remove a coextensive strip.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

VICTOR CHARLES SMITH.

Witnesses:

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