

N. M. STANLEY.
 PROCESS OF ATTACHING METALLIC CHARACTERS TO LEATHER AND THE LIKE.
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961,550.

Patented June 14, 1910.

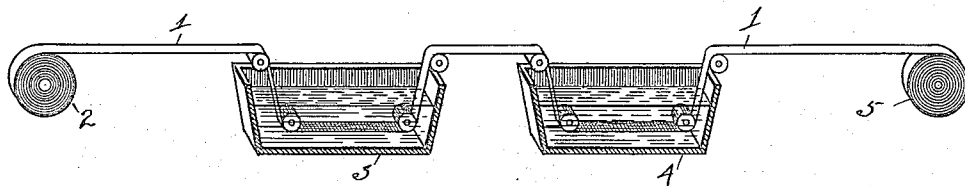


Fig. 1.

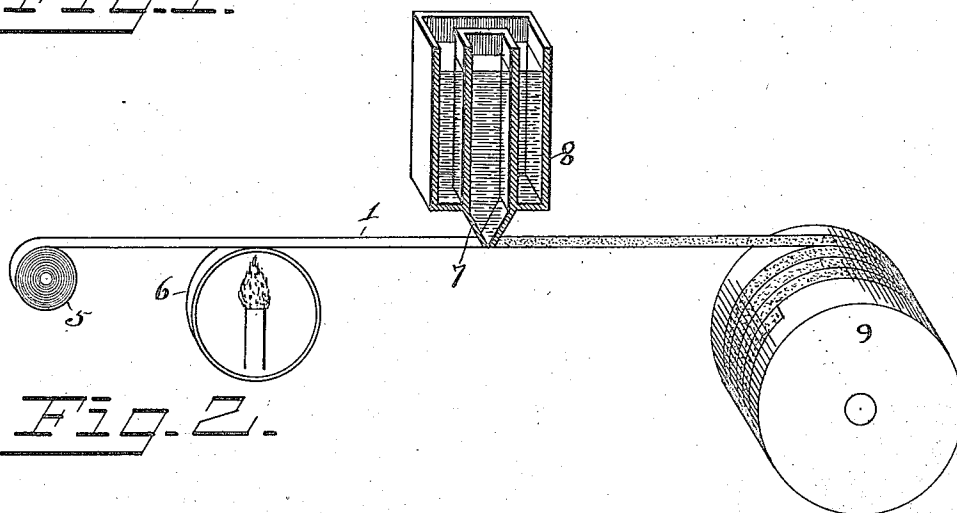


Fig. 2.

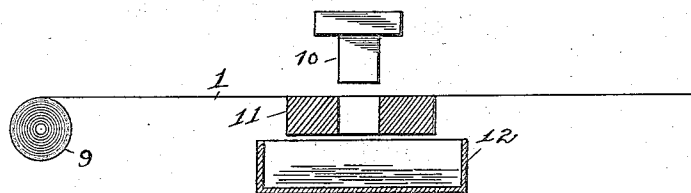


Fig. 3.

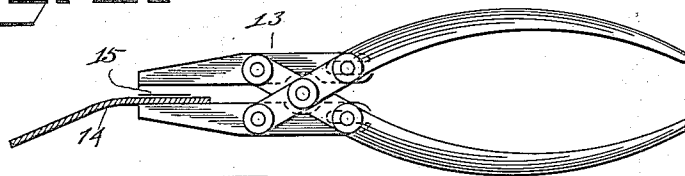


Fig. 4.

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Witnesses
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UNITED STATES PATENT OFFICE.

NATHAN M. STANLEY, OF DAYTON, OHIO.

PROCESS OF ATTACHING METALLIC CHARACTERS TO LEATHER AND THE LIKE.

961,550.

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To all whom it may concern:

Be it known that I, NATHAN M. STANLEY, a subject of the King of Great Britain, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Processes of Attaching Metallic Characters to Leather and the Like; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to a process of attaching metallic letters, figures, designs, etc. to articles such as hand-bags or satchels, pocket books, spectacle cases and the like, or to any material having a soft or yielding surface.

In the drawings Figures 1, 2, 3 and 4 illustrate the means whereby the successive steps in the process are carried out.

Referring to Fig. 1, 1 designates a metallic ribbon which may be copper, brass or any other suitable metal. This ribbon in the first step of the process is unwound from a roll 2 and is passed through a receptacle 3 which contains an acid bath. The purpose of this is to provide the surface of the ribbon with a suitable roughened nature for the reception of an adhesive substance. From the acid bath the ribbon is conducted through a bath of alkali solution in a receptacle 4, which neutralizes the effect of the acid and arrests any further action of the acid after the ribbon leaves the receptacle 3. From the alkali bath the metallic ribbon is wound upon a roll 5. Referring to Fig. 2, the ribbon thus treated is unwound from the roll 5 over a heating drum 6 where a suitable temperature is given it, and under an adhesive applying device 7 where a suitable application of adhesive substance is applied to one side of the ribbon after said ribbon is given the proper application of heat. The adhesive substance is surrounded by a chamber 8 which contains water heated to a proper temperature to maintain said adhesive substance in solution. From the adhesive-applying device the ribbon is wound upon a drum 9 with the surface or side containing the adhesive substance exposed and said adhesive substance sets or becomes dry

before the ribbon is subjected to the further step in the process. The further step in the process consists in subjecting the ribbon so prepared to the action of dies 10 and 11 which punch therefrom the letters, figures or other designs as may be desired, said devices falling into a receiver 12. The next and final step in the process consists in applying the stamped letter or other device to the article or material. This consists in adding the proper pressure to the letter or device with the side thereof containing the adhesive substance in contact with the material. In Fig. 4 I have shown a simple means consisting of a pair of pincers 13 between the jaws of which the material 14, which may be leather or any other analogous material, is placed. The stamped letter 15 is also shown in a position to be engaged by the upper jaw of the pincers, which firmly presses or embeds the metallic device into the material 14, the adhesive side of said letter or device engaging the material, and when completed the letter or device lies flush with the surface of the material and is firmly embedded therein. In this last step in the process the pincers or other pressure device may be heated to more perfectly carry out the final step of uniting metallic letters and the like to material such as leather or other material having the characteristic of porosity.

Having described my process, I claim:

1. The herein described process of attaching metallic letters or characters to material as described, which consists in applying to a metallic ribbon a suitable surface for the application of an adhesive substance, in applying said adhesive substance to one side of the ribbon and in permitting it to dry after applied, in stamping from said ribbon the letters or characters, and in placing said letters or characters with the sides containing the adhesive substance in contact with the material to which they are to be applied, and in applying the necessary pressure to embed said letters or characters in the surface of the material, substantially as specified.

2. The herein described process of attaching metallic letters or characters to material such as described, which consists in subjecting a metallic ribbon to an application which imparts to the surface thereof a suitable porosity for the reception of an adhesive substance, in next applying such ad-

hesive substance to said ribbon under heat, in next stamping from said ribbon so treated, letters or characters, and in pressing said letters or characters into the surface of the material to which they are to be attached, substantially as specified.

3. The herein described process of applying metallic letters or characters to material such as described, which consists first in passing a metallic ribbon through a bath of solution to impart to the surface thereof a porous nature, in next passing said ribbon through a bath of alkali solution, in next heating said ribbon and applying to one side thereof adhesive substance, in next stamping from said ribbon, after the adhesive sub-

stance has dried or become set, the letter or character to be applied, and in finally placing said letter or character upon the material to which it is to be applied, with the adhesive side in contact with said material, and in applying pressure sufficient to embed the metallic letter or character in the surface of the material so that it shall lie flush with said surface, substantially as specified.

In testimony whereof I affix my signature, in presence of two witnesses.

NATHAN M. STANLEY.

Witnesses:

R. J. McCARTY,
HOWARD S. SMITH.