J. H. HOFFMAN.

PROCESS OF GUMMING THE EDGES OF RIBBONS.

APPLICATION FILED JULY 26, 1918.

1,300,394. Patented Apr. 15, 1919.

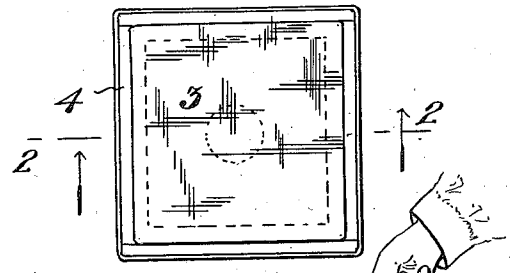


Fig. 1.

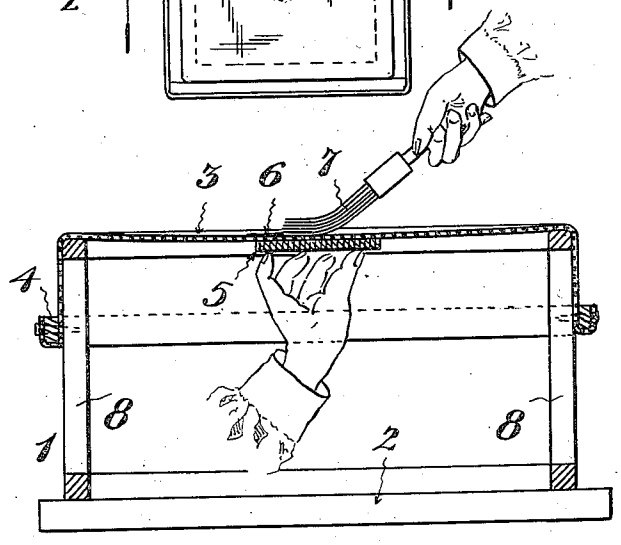


Fig. 2.

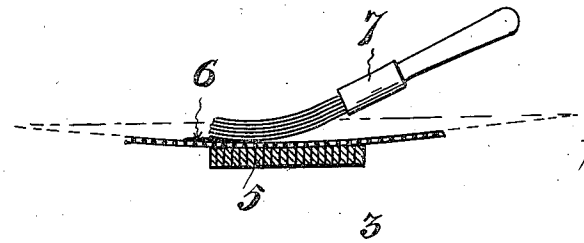


Fig. 4.

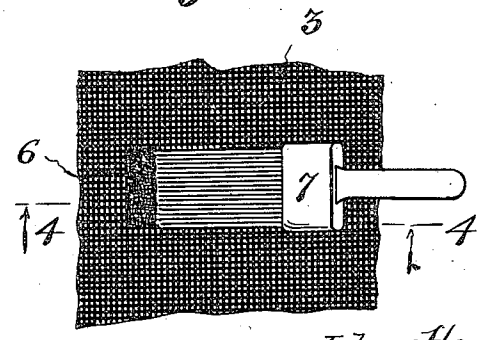


Fig. 3.

Inventor

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UNITED STATES PATENT OFFICE.

JOHN HENRY HOFFMAN, OF NEW YORK, N. Y., ASSIGNOR TO THEO. TIEDEMANN & SONS, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

PROCESS OF GUMMING THE EDGES OF RIBBONS.

1,300,394. Specification of Letters Patent. Patented Apr. 15, 1919.

Application filed July 26, 1918. Serial No. 246,862.

To all whom it may concern:

Be it known that I, JOHN HENRY HOFFMAN, a citizen of the United States, and a resident of the city of New York, county of Kings, and State of New York, have invented a certain new and useful Improvement in Processes of Gumming the Edges of Ribbons, of which the following is a specification.

This invention relates generally to a process for applying gum or any suitable adhesive to the edges of cut ribbons after they have been placed in rolls. In the use of a ribbon cutting machine, after the ribbon has been cut from piece goods or the like, a rough edge is left by the cutter which generally causes the ribbon to fray or fringe. To prevent this, devices have been produced whereby adhesive is applied to the edge of the ribbon by the machine performing the cutting operation. After the ribbons have been rolled, in order to insure against and prevent any possibility of this unraveling or fraying of the edges of the ribbon while being handled or used, I apply an additional coating of adhesive to the edge of the ribbon.

The object therefore of this invention is to provide a process by which the edges of the rolls of ribbon can be expeditiously coated with an adhesive and by which the adhesive will be properly and evenly applied. The device by which my improved process is carried out forms the subject matter of my co-pending application Serial No. 246,861, filed July 26th, 1918.

With this and other objects which may hereinafter appear, in view, I have devised the particular method of carrying out my invention set forth in the following specification and more particularly pointed out in the claims appended hereto.

Reference is to be had to the accompanying drawing, forming a part hereof, in which

Figure 1 is a perspective view of the device through which the gum is applied to the edges of the rolls of ribbon;

Fig. 2 is a sectional view on the line 2—2 of Fig. 1, looking in the direction of the arrows;

Fig. 3 is an enlarged plan view of a portion of the sheet through which the gum is applied to the edge of the roll of ribbon; and

Fig. 4 is a sectional view on the line 4—4 of Fig. 3, looking in the direction of the arrows.

Throughout the various views of the drawings, similar reference characters designate similar parts.

In carrying out my improved process, I make use of the device illustrated in the accompanying drawing, in which 1 indicates a frame of any desired form or dimensions. This frame comprises a base 2 and suitable uprights 8. The upper side of the frame is filled in by a covering of a porous or permeable, flexible material, preferably a textile material or cloth 3.

This sheet of material 3 is preferably placed upon a frame 4 which fits about the frame 1 so that sheets of material 3 can be readily removed or renewed when desired.

In carrying out the process of applying the adhesive, a roll of ribbon 5 is held beneath the covering 3, and the adhesive 6 is applied to the edge of the roll by means of a brush 7 or similar implement. The covering 3 acts as a distributer of the adhesive and causes an even spreading of the same upon the edge of the roll of ribbon.

The covering or sheet of material 3 is not stretched but is preferably placed loosely on its frame so that when the object to which the adhesive is to be applied, is placed beneath it, it can adapt or conform itself to the contours of variously shaped articles so that an even spreading of the adhesive through the interstices of the covering is afforded.

After adhesive has been applied to the edges of the rolls of ribbon, their edges are sand-papered to remove any surplus adhesive or loose threads.

From the foregoing it is obvious that my invention is not to be restricted to the exact process shown and described, but is broad enough to cover all processes coming within the scope of the annexed claims.

Having described my invention, what I claim is:

1. The process of applying gum to the edge of ribbon rolls consisting in supporting a ribbon roll beneath a sheet of flexible, permeable textile material which conforms to

the surface on the roll to which the adhesive is to be applied, and applying an adhesive by brushing the same through said sheet of material.

2. The process of applying gum to the edge of ribbon rolls consisting in supporting a ribbon roll beneath a sheet of flexible, textile permeable material which conforms to the surface on the roll to which the adhesive is to be applied, applying the adhesive by brushing the same through said sheet of material and smoothing the gummed surface of the roll after the adhesive has dried.

Signed at the city, county and State of New York, this 23rd day of July, 1918.

JOHN HENRY HOFFMAN.