

No. 776,950.

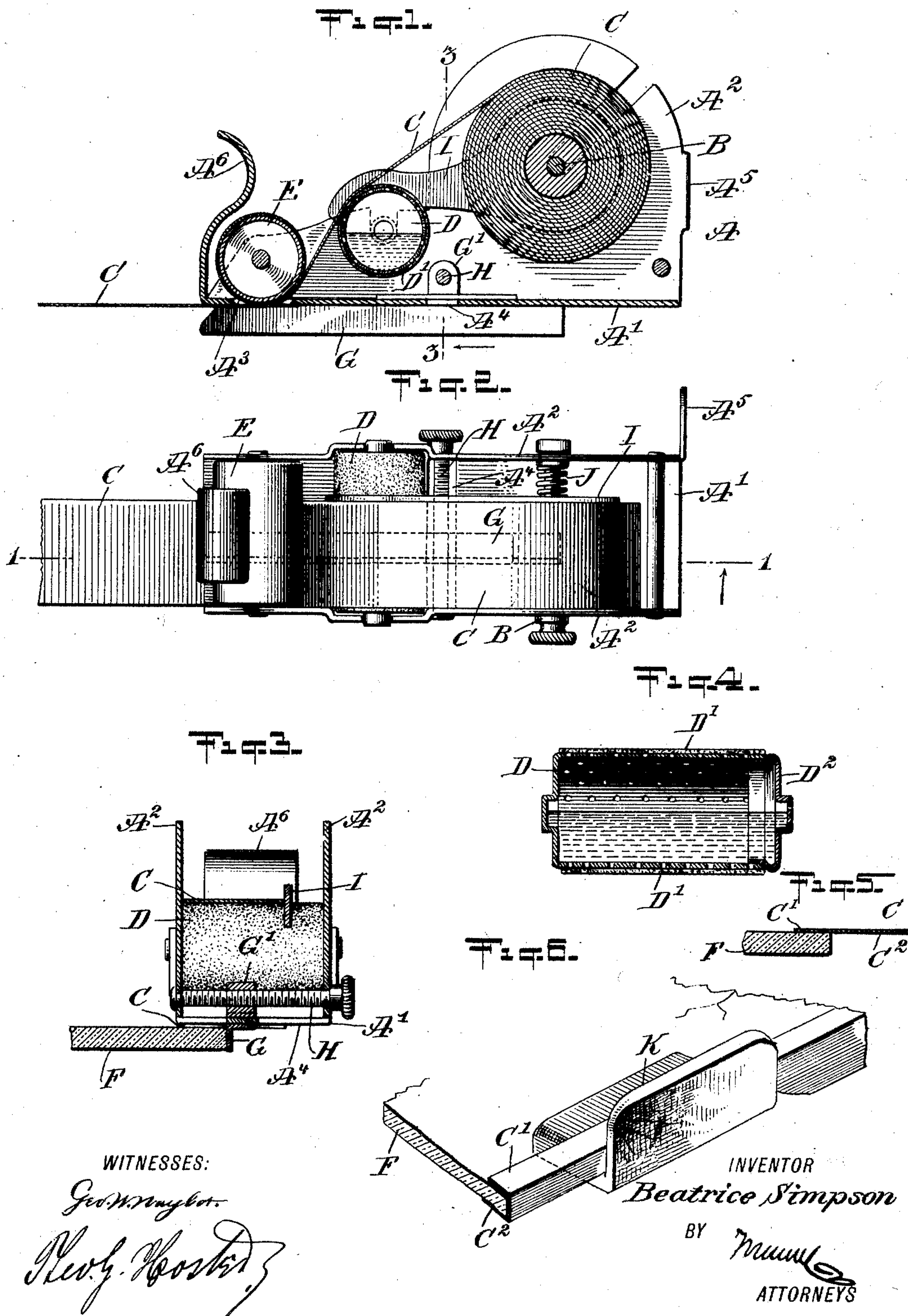
PATENTED DEC. 6, 1904.

B. SIMPSON.

MACHINE FOR MOISTENING, LAYING, AND BINDING GUMMED PAPER.

APPLICATION FILED FEB. 16, 1903.

NO MODEL.





# UNITED STATES PATENT OFFICE.

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MACHINE FOR MOISTENING, LAYING, AND BINDING GUMMED PAPER.

SPECIFICATION forming part of Letters Patent No. 776,950, dated December 6, 1904.

Application filed February 16, 1903. Serial No. 143,725. (No model.)

*To all whom it may concern:*

Be it known that I, BEATRICE SIMPSON, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Machine for Moistening, Laying, and Binding Gummed Paper, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved hand-machine more especially designed for binding the edges of lantern-slides, picture-frames, and other passe-partout articles with a gummed strip of paper, leather, or other flexible material, the machine being arranged to pass the gummed flexible strip over a moistening device to moisten the gummed face of the strip, to pay out the latter, and to press a portion thereof directly onto the edge of the article to be bound by the flexible strip.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional side elevation of the improvement on the line 1 1 of Fig. 2. Fig. 2 is a plan view of the same. Fig. 3 is a cross-section of the same on the line 3 3 of Fig. 1, showing the improvement in position on the article to receive the binding. Fig. 4 is an enlarged transverse section of the moistening-cylinder. Fig. 5 is a cross-section of the strip placed in position on the article by the machine, and Fig. 6 is an enlarged perspective view of the folder employed for folding the strip into a final position to form the binding.

The frame A of the machine consists, essentially, of a flat bottom A', from which rise the sides or standards A<sup>2</sup>, in which is journaled a shaft B for carrying a flexible strip C, made of paper, leather, or similar material, gummed on the under side, the strip being arranged in roll form and held on the shaft B. The strip

unwinding is passed over a moistening-cylinder D, journaled in the sides A<sup>2</sup> of the frame, the said cylinder having a perforated rim provided with a cover D', of felt or like material, so that the water contained in the cylinder can pass through the perforations in the rim into the covering for the latter to moisten the gummed face of the strip C as the latter is drawn over the said covering. The upper non-gummed face of the strip C after leaving the moistening-cylinder D passes under a guide E, in the form of a roller, journaled in the sides A<sup>2</sup> of the frame A, the strip then passing through a transverse slot A<sup>3</sup>, formed in the bottom A' of the frame to be pressed onto the article F at one edge thereof, as plainly indicated in Fig. 3.

On the under side of the bottom A' is arranged a longitudinally-extending gage G, transversely adjustable by the use of a screw-rod H, journaled in the sides A<sup>2</sup> of the frame and screwing in a nut G', attached to the top of the gage G, as plainly indicated in the drawings, it being understood that the nut G' extends upwardly through a transverse slot A<sup>4</sup> in the bottom A' to insure a proper transverse movement of the gage G when the operator turns the screw-rod H. When the device is used, then the gage G is adjusted transversely to bring the gage in such position relative to the strip C that a desired portion C' thereof is passed onto the top surface of the article F, while the remaining portion C<sup>2</sup> extends beyond the edge, and this remaining portion is subsequently bent and pressed in contact with the outer edge of the article and the under surface thereof, as indicated in Fig. 5. By adjusting the screw-rod H the gage G can be moved to pay more or less of the strip of paper onto the upper surface of the article F, as the gage G rests against the edge of the article F when using the device for its legitimate purpose. The top edge of the forward end of the gage G is slightly recessed, as shown in Fig. 1, to allow the strip of paper C to pass between the said recessed portion and the under side of the flat bottom A'.

In order to accommodate different widths of strips C, a plate I is provided, extending



longitudinally and held on the shaft B and pressed against the rear face of the roll of paper by a spring J, coiled on the shaft B. The plate I extends forwardly and loosely rests on the peripheral face of the moistening-cylinder D, so as to insure a proper guiding of the strip C over the said moistening-cylinder to keep the strip C in proper alinement relative to the gage G.

10 In using the device the operator takes hold of the frame A and abuts the gage G against one edge of the article F to receive the binding, and then the operator holds with one hand the forward end of the strip C and draws the frame rearwardly, so that the strip C unwinds from its roll, passes over the moistening-cylinder D, under the guide E, and out through the slot A<sup>3</sup> onto the top surface of the article F, to press the moistened portion C' of the strip in firm contact with the article F, along the edge thereof, the portion C' being uniform in width as the strip is paid out on drawing the frame along the edge of the article. When this has been done, a folder K, shown

25 in Fig. 5 and made L-shaped, is employed to press the remaining portion C<sup>2</sup> against the edge of the article F and onto the undersurface of the article to provide the same with binding on the top and bottom and on the outer edge.

30 The frame A is provided with suitable handles A<sup>5</sup> and A<sup>6</sup>, adapted to be taken hold of by the operator for conveniently manipulating the machine, as above described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

35 1. A machine for moistening, laying and binding a gummed, flexible strip, consisting of a frame having a bottom provided with a slot, a roller journaled in the frame and carrying the flexible strip in roll form, the strip being gummed on the under side, a moistening device arranged on the said frame, in advance of the said roller, for the gummed side of the strip to pass over the surface of the moistening device, to moisten the gummed side, the moistened strip passing through a slot in the bottom of the frame to the front end thereof, and a longitudinal gage on the bottom of the said frame, as set forth.

50 2. A machine for moistening, laying and binding a gummed flexible strip, consisting of a frame having a flat bottom provided near the front end with a slot, means for carrying

the flexible strip in the said frame, a moistening-cylinder journaled in the said frame and arranged for containing water passing through perforations in the rim of the cylinder to a fabric covering thereof, the gummed under side of the strip passing over the said covering to be moistened, the strip passing through the slot in the bottom of the frame to the underside of the said bottom, and a longitudinal gage held transversely adjustable on the bottom of the said frame and depending from the said bottom, as set forth.

65 3. A machine for moistening, laying and binding a gummed flexible strip, consisting of a frame having a flat bottom provided near the front end with a slot, means for carrying the flexible strip in the said frame, a moistening-cylinder journaled in the said frame and arranged for containing water passing through perforations in the rim of the cylinder to a fabric covering thereof, the gummed under side of the strip passing through the slot in the bottom of the frame to the under side of the said bottom, a longitudinal gage held transversely adjustable on the bottom of the said frame and depending from the said bottom, and a guide on the said frame, under which passes the said strip after leaving the moistening-cylinder, to guide the strip to the said slot, as set forth.

85 4. A machine for moistening, laying and binding a gummed flexible strip, consisting of a frame having a flat bottom provided at its front end with a slot, a roller journaled in the frame and carrying the flexible strip in roll form, a moistening-cylinder journaled in the said frame in advance of the roller, a spring-pressed plate held on the roller, to rest against one face of the roll and to engage the peripheral face of the said moistening-cylinder, to guide the flexible strip, the latter, after leaving the moistening-cylinder passing through the slot in the bottom of the frame to the under side of the bottom, and a gage held on the under side of the said bottom and extending longitudinally, as set forth.

100 In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BEATRICE SIMPSON.

Witnesses:

MONTAGUE SIMPSON,  
T. L. DILLON.