

(No Model.)

G. H. BECK.

APPARATUS FOR SPREADING VARNISH FOR PRINTING WALL PAPER
BY HAND.

No. 250,487.

Patented Dec. 6, 1881.

fig: 1.

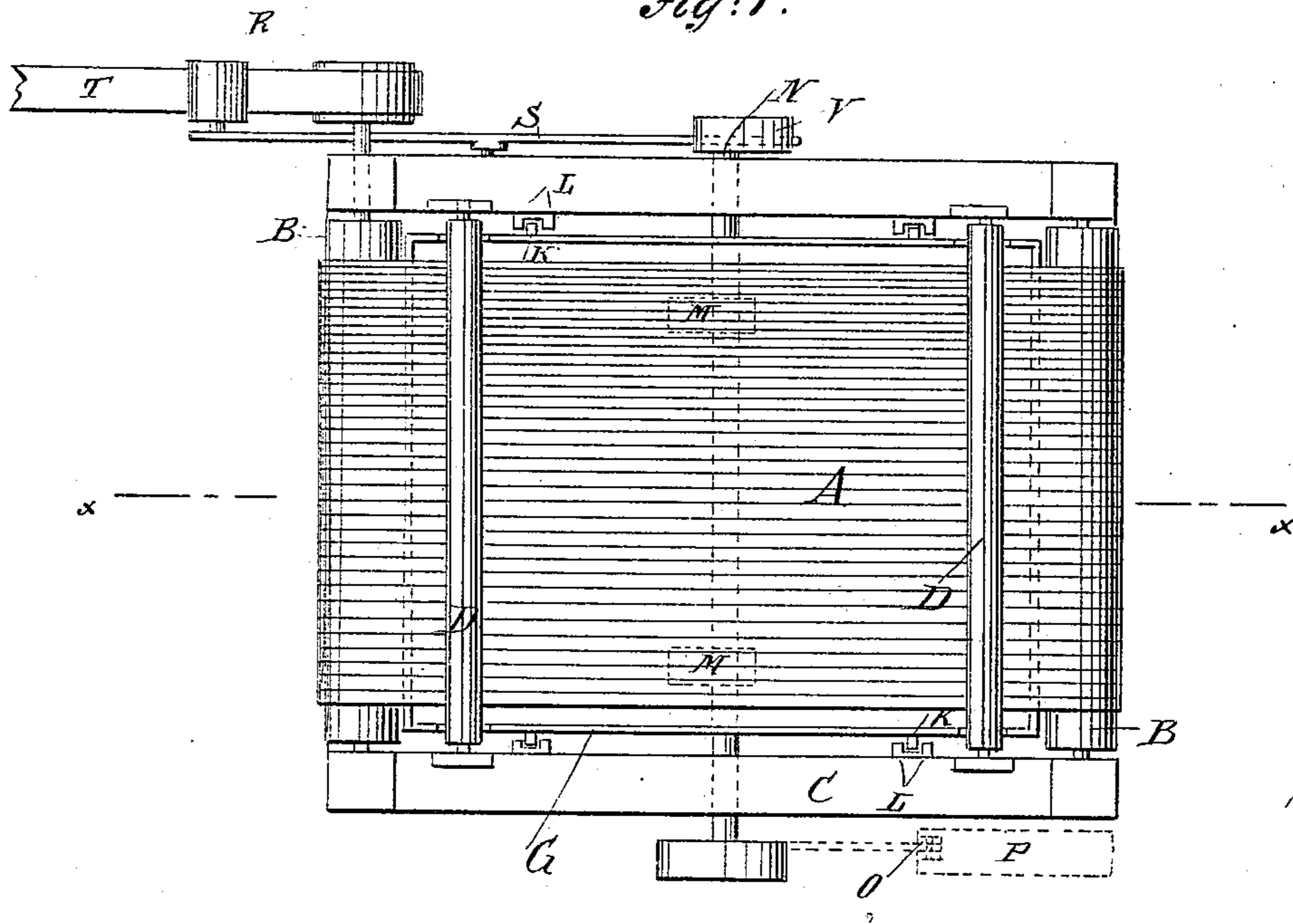
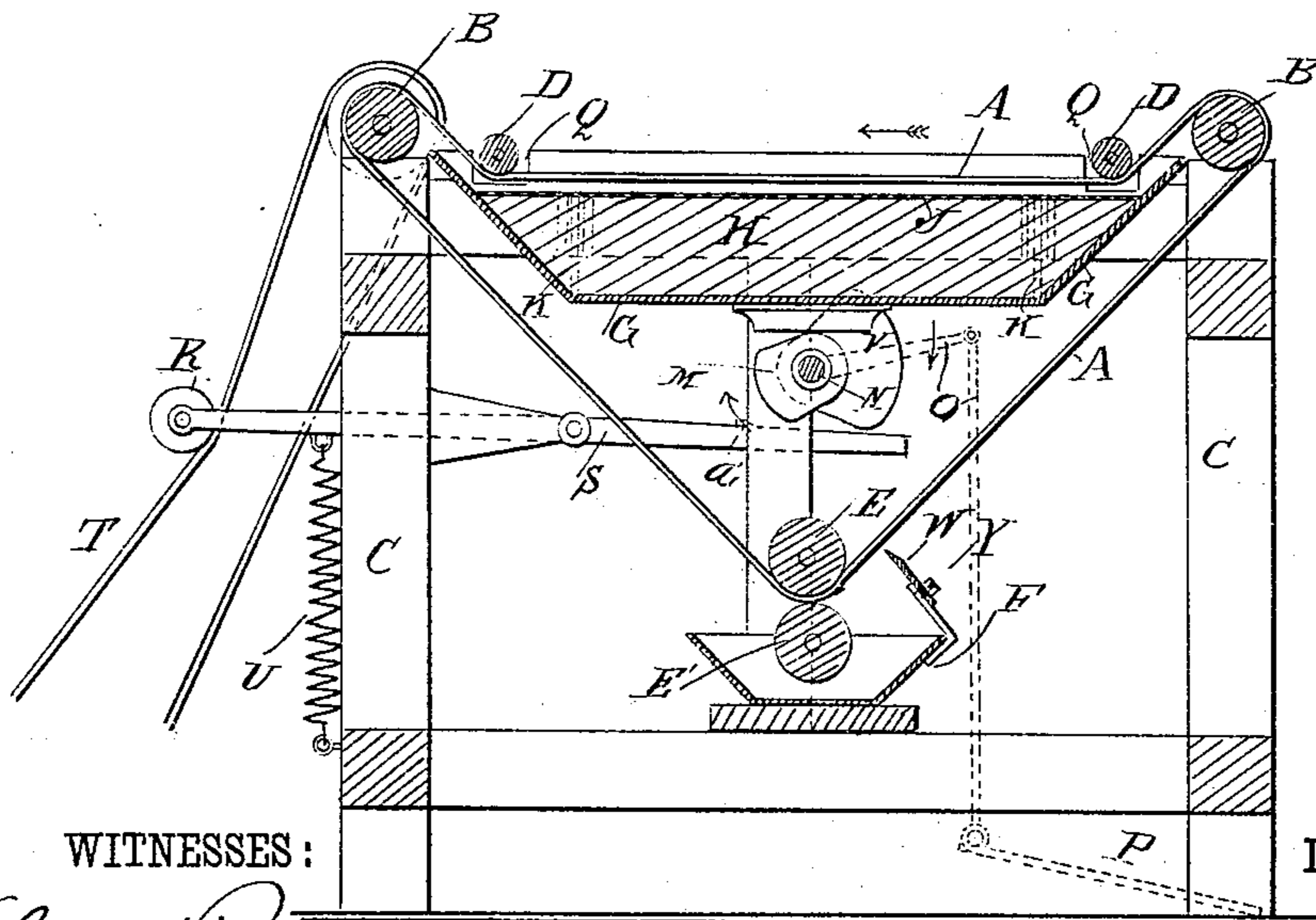


Fig: 2.



WITNESSES :

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APPARATUS FOR SPREADING VARNISH FOR PRINTING WALL-PAPER BY HAND.

SPECIFICATION forming part of Letters Patent No. 250,487, dated December 6, 1881.

Application filed October 22, 1881. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. BECK, of the city, county, and State of New York, have invented a new and Improved Apparatus for Spreading Varnish for Printing Wall-Paper by Hand, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved apparatus for spreading varnish, paint, &c., in a uniform layer, for the purpose of facilitating applying the varnish or paint on the printing-surface of the blocks used in printing hand-made wall-papers.

The invention consists in an endless belt or apron passing over suitable rollers and over a vertically-adjustable cushion-box, which is combined with mechanism for raising it when the machine stops, so that the wall-paper-printing blocks can be placed on this apron for the purpose of transferring some of the varnish spread on the apron by a spreading-roller (dipping into a varnish-box) upon this wall-paper-printing block.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

Figure 1 is a plan view of my improved apparatus for distributing varnish, &c. Fig. 2 is a longitudinal sectional elevation of the same on the line *x x*, Fig. 1.

A broad endless belt or apron, A, passes over the large rollers B at the ends of a frame, C, and under the smaller rollers D, journaled in arms of the frame C and a short distance below the rollers B. The apron or belt A also passes between two rollers, E E', journaled in the lower part of the frame C, of which rollers the lower one, E', dips into a vessel, F, containing varnish, paint, &c., which is to be spread on the apron or belt A. A box, G, containing paper-pulp H, which is covered by a layer, J, of painted or water-proof muslin, is held in the upper part of the frame C in such a manner that the layer J of muslin will be from one-half to one inch below the smaller rollers D. The box G, which is called the "slush-box," must move vertically, and for this purpose it is provided with vertical guiding-strips K, which fit in between cleats L on the frame C. The box G rests on two cams, M, of

a shaft, N, provided with an end crank, O, connected with a treadle, P, which is depressed when the slush-box G is to be raised. The upper edges of the longitudinal sides of the slush-box G are provided with recesses Q for the rollers D. A tension-pulley, R, is pivoted to the outer end of a lever, S, pivoted in the frame C, and drawn against the driving-belt T by a spring, U. The inner end of the lever S rests against a cam, V, of the shaft N. An adjustable scraper, W, is held to an arm of the box F by the thumb-screw Y.

The operation is as follows: By means of the belt T one end roller, B, is revolved, and the apron A passes over the slush-box G, as indicated by the arrow. This movement of the apron causes a rotation of the roller E', whereby the varnish, paint, or other compound in the box F will be spread on the outer surface of the apron A, the superfluous varnish, &c., being scraped off by the scraper W, which can be adjusted to leave a greater or less quantity of varnish on the apron. Whenever a block such as are used in printing hand-made wall-papers is to be coated or covered with varnish the apparatus must be stopped, and the slush-box must be raised, so that the apron A will rest on the covering J of the slush-box G. For this purpose the operator depresses the treadle P, thereby rotating the shaft N slightly in the direction of the arrow *a'*. The cams M will raise the slush-box until the inner surface of the apron A rests on the upper surface of the covering J and the cam V depresses the inner end of the lever S, thereby raising the roller or pulley R and slackening the belt T, so that the same will not have sufficient friction to rotate the end roller, B—that is, the apparatus is stopped. The form or block for printing the wall-paper is then placed on the apron with the engraved surface downward, so that this engraved surface will be covered with varnish. Then the block is removed and the treadle P is released, the spring N draws the outer end of the lever S downward, whereby the belt T is tightened and the slush-box lowered, so as to avoid undue wear and tear of the apron by its movement over the slush-box.

By means of the above-described apparatus the varnish will be spread in a layer of uniform thickness and consistency. The blocks

or forms will not receive more varnish at one time than at another.

The covering J of the slush-box forms a soft and yielding cushion for the apron; and, if desired, the slush-box may be replaced by some other device that will serve for the same purpose, the slush-box being preferred.

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

1. An apparatus for spreading varnish or paint for printing hand-made wall-papers, made substantially as herein shown and described, and consisting of an endless belt running on suitable rollers over a vertically-adjustable cushion-box and between two rollers, one of which dips into the varnish and spreads it on the outer surface of the apron, as set forth.

2. In an apparatus for distributing paint or varnish, the combination, with the endless varnish-distributing belt or apron, of devices for stopping the machine and raising the cushion-

box under the apron simultaneously, substantially as herein shown and described, and for the purpose set forth.

3. In an apparatus for distributing paint or varnish, the combination, with the endless belt or apron A, of the rollers B and D, the vertically-adjustable slush-box G, the rollers E E', and the varnish-box F, substantially as herein shown and described, and for the purpose set forth.

4. In an apparatus for distributing paint or varnish, the combination, with the endless belt or apron A, of the rollers B and C, the vertically-adjustable slush-box G, the cams M and V on the shaft N, the lever S, the spring U, and the tension-pulley R, substantially as herein shown and described, and for the purpose set forth.

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Witnesses:

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