

R. BUSTIN.

PAPER HANGING MACHINE.

No. 179,768.

Patented July 11, 1876.

Fig. 1.

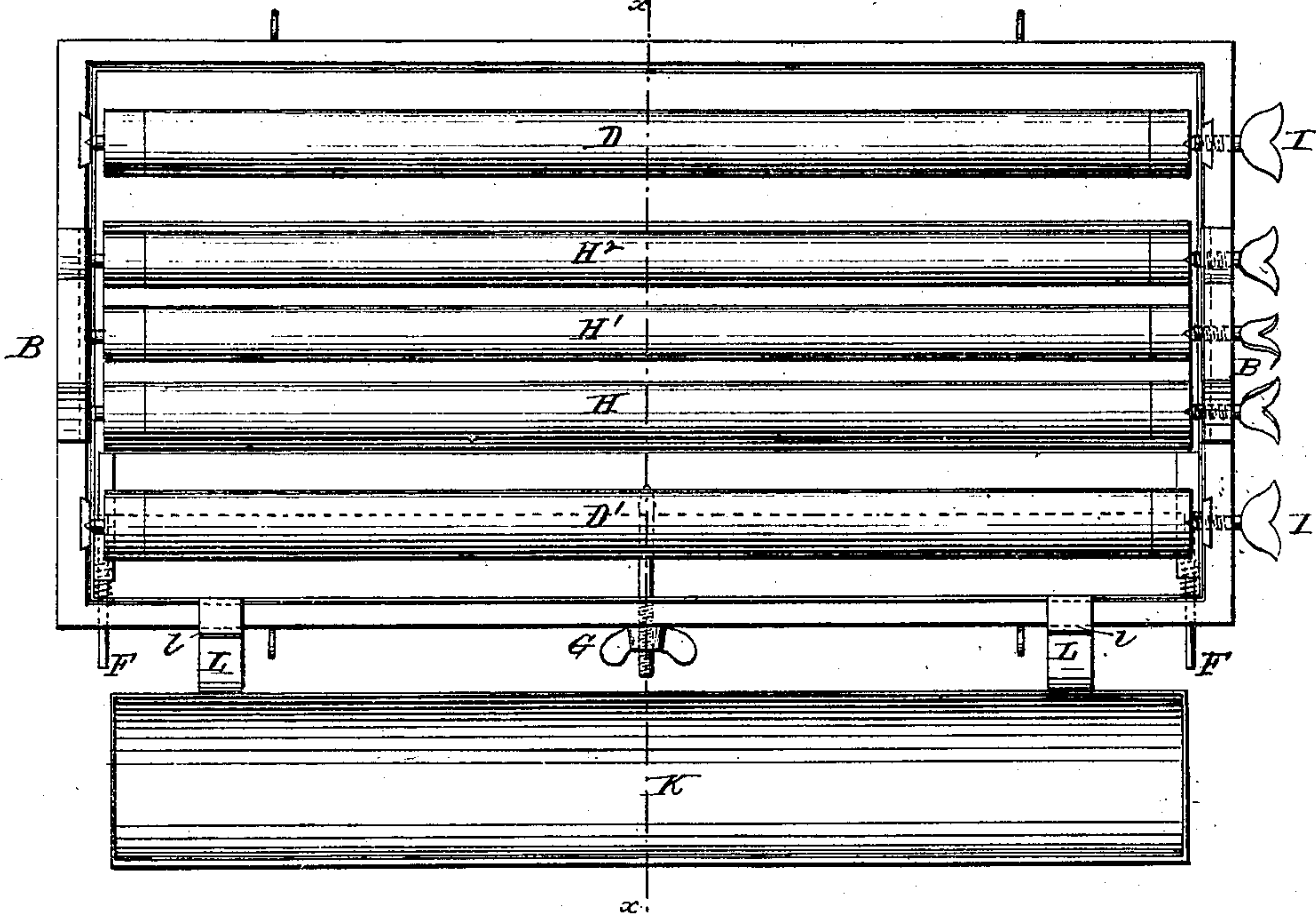
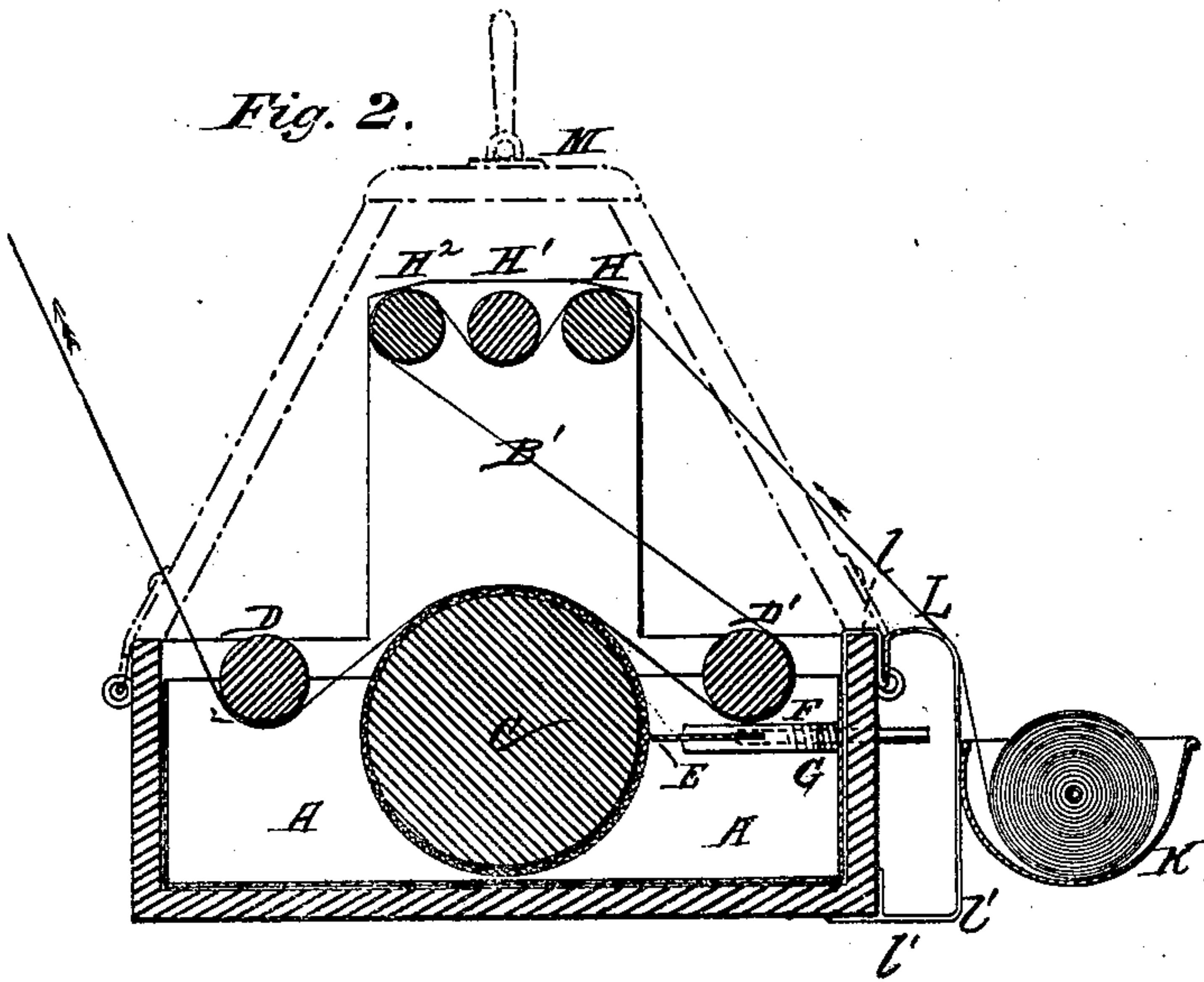


Fig. 2.



Witnesses:

J. G. Coombs
Att. Norris

Inventor:

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Att.

UNITED STATES PATENT OFFICE.

ROBERT BUSTIN, OF ST. JOHN, NEW BRUNSWICK, CANADA.

IMPROVEMENT IN PAPER-HANGING MACHINES.

Specification forming part of Letters Patent No. **179,768**, dated July 11, 1876; application filed May 18, 1876.

To all whom it may concern:

Be it known that I, ROBERT BUSTIN, of St. John, New Brunswick, Canada, have invented certain new and useful Improvements in Apparatus for Pasting and Applying Wall-Paper, of which the following is a specification:

This invention relates to a new and improved apparatus for applying the paste to wall-paper as it is unwound from the roll, in order to permit the paper to be applied to the wall with expedition and ease; and it consists, first, in a paste box or receptacle, provided with a paste-distributing roller for applying the paste to the paper, in combination with a series of carrying-rollers, journaled on adjustable tension-screws, for carrying the paper from the roll and keeping it stretched closely in contact with the distributing-roller, as more fully hereinafter set forth; second, in the combination, with the said distributing, carrying, and guide rollers, of a tension-screw, applied to one or more of the same, and forming one of the journals of the roller to which it is applied, for the purpose of regulating the speed with which the paper passes through the apparatus, in order to allow said paper to be properly secured to the wall, as more fully hereinafter set forth; third, in the combination, with the paste-receptacle, of a trough for holding the roll of paper, adapted to be secured in position at one side of the paste-receptacle on the outside, and which can be removed and packed in the apparatus when the same is not in use, as more fully hereinafter set forth.

In the drawing, Figure 1 is a plan view of my invention, and Fig. 2 a cross-section on the line *x x* of Fig. 1.

In the drawing, the letter A represents the paste-receptacle, of rectangular or other suitable shape, constructed, preferably, of wood and lined with metal, and provided with uprights or standards B B' at the ends. C represents the paste-distributing roller, journaled at opposite ends within the paste-receptacle, about midway between its two sides, and, preferably, covered with felt or other similar yielding absorbent material for taking up and distributing the paste. E represents an adjustable doctor or scraper, which bears against the

periphery of the roller, being attached to arms or rods F projecting through the walls of the paste-receptacle, an adjusting-screw, G, being located between the two rods for adjusting the doctor.

By the sides of the distributing-roller *c*, and parallel with it, at or near the upper edges of the paste-receptacle, are journaled the guide-rollers D D', which serve to guide or convey the paper over the upper surface of the distributing-roller, and keep it in contact with the same.

H H¹ H² represent a series of three rollers, journaled between the uprights or standards B B, the object of which is to carry the paper to the guide rollers, and provide for the proper tension of the same between said guide-rollers and paper-roll, and thus prevent the paper from springing away from the distributing-roll, the paper passing first over roller H, and, finally, over and partially around H².

In order to provide for the proper tension of the paper as it is drawn through the apparatus, the various rollers are journaled at one end upon adjustable screw-centers, indicated by the letter I, by means of which the rollers may be tightened between bearings to any required degree. This construction also admits of the ready and convenient removal of the rollers for the purpose of packing.

K represents a trough, preferably, semi-cylindrical, in cross section, for containing the roll of paper. Said trough is provided with brackets L L, at one side, having sockets or recesses *l l* for securing the same over the upper edge of the paste-receptacle, and the projections *l' l'*, which bear against the lower edge of the receptacle, for the purpose of supporting the trough in proper position.

The receptacle is provided with a cover, M, adapted to fit over the same, and inclose the various parts when the apparatus is not in use, the paper trough being detached and placed inside.

The operation of my apparatus will be readily understood from the foregoing description.

The parts being in position, as shown at Fig. 2, and the paper inserted, as indicated, the paper is drawn through in the direction of the arrows, becoming coated with paste on its passage over the distributing-roller. The

free end is then attached to the wall at the top, and the paper is then drawn through the box by carrying the same down to the floor, being pressed into contact with the wall, in the usual manner, as it is drawn out.

It will be seen that by my apparatus the paper can be applied directly from the original roll to the wall, being pasted only in quantities desired, as drawn off, and that the previous cutting into lengths, and the tedious process of hand pasting, are thus entirely obviated.

What I claim, and desire to secure by Letters Patent, is—

1. In combination with the paste box or receptacle, the distributing-roller C, guide-rollers D D', and carrying-rollers H H¹ H², arranged between the guide-roller D' and the paper-roll, and journaled upon tension-screws, for the purpose of keeping the paper stretched over

the distributing-roller, substantially as described.

2. In combination with the distributing-guide and carrying-rollers, the adjustable screw-centers, forming the journals of said rollers at one end, for the purpose of regulating the tension of the paper, and permitting the removal of the journals, substantially as described.

3. In combination with the paste-receptacle and its distributing-roller, the separate adjustable trough for containing the roll of paper, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of the subscribing witnesses.

ROBT. BUSTIN.

Witnesses:

JOS. L. COOMBS,
JNO. D. PATTEN.