R. BUSTIN.

Paper-Hanging Machines.

No. 151,086. Patented May 19, 1874.

Fig 1.

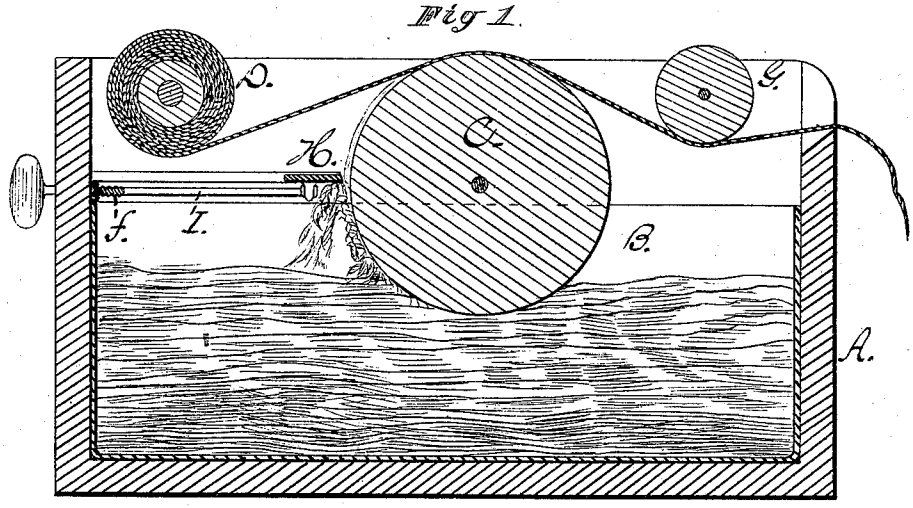
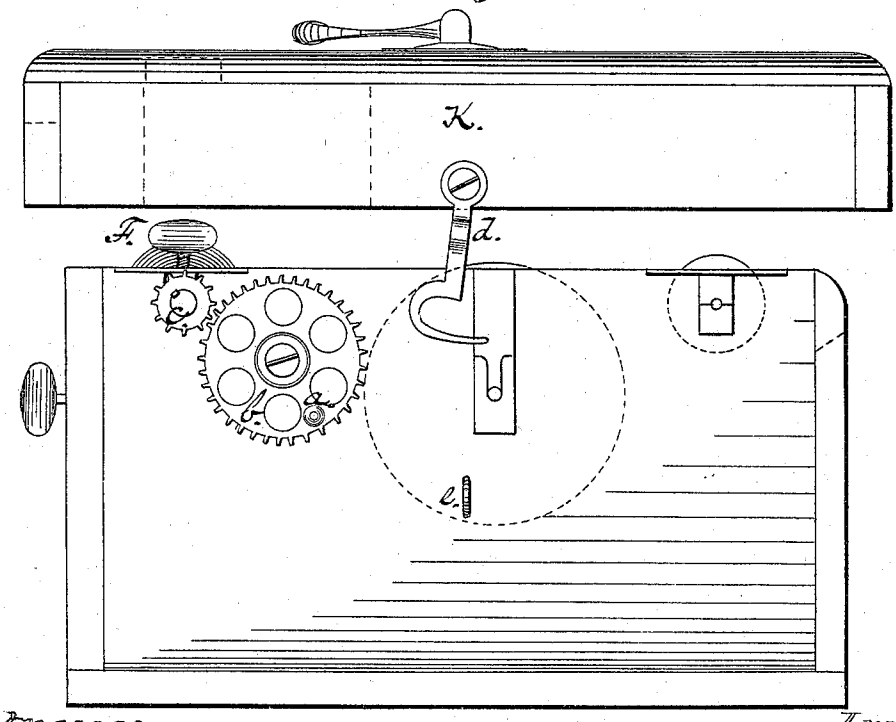


Fig 2.



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UNITED STATES PATENT OFFICE.

ROBERT BUSTIN, OF ST. JOHN, CANADA.

IMPROVEMENT IN PAPER-HANGING MACHINES.

Specification forming part of Letters Patent No. **151,086**, dated May 19, 1874; application filed April 1, 1874.

To all whom it may concern:

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

This invention has for its object to produce an apparatus for pasting wall-paper in a simple and uniform manner, and to enable the same to be applied to the wall with expedition and ease. The invention consists in mounting the journals of the shaft receiving the roll of paper in movable bisected boxes, which are combined with set-screws, so as to enable the pressure of the boxes upon the journals to be increased or lessened, for varying the speed of the rotation of the roll of paper and the passage of the same through the apparatus. The invention further consists in the arrangement, in proper respect to the pasting-roller, of "doctor-plates" or scrapers, which are attached to adjustable arms or rods, and bear against the periphery of the pasting-roller with a greater or less pressure, for preventing the same from spreading an excessive amount of paste upon the paper.

In the accompanying drawing, forming part of this specification, Figure 1 is a transverse section of a paper pasting and hanging apparatus constructed according to my invention. Fig. 2 is an end view of the paste-box, showing the adjustable boxes of the paper-roller.

The case or box A may be of wood or other suitable light material, and within the same I place a metallic or earthenware paste-receptacle, B, which is of such a height and size as not to extend quite up to the journals of the pasting-roller C. The gudgeons or journals of said pasting-roller are inserted into slotted bearings in the side walls of the box A, so as to enable the roller to yield to such an extent as will enable the same to conform to the inequalities of paper, the consistency of the paste, and other causes.

If deemed desirable, springs may be placed beneath the journals of the pasting-roller for exerting an upward pressure upon the same.

The wall-paper to be pasted and applied to the wall is wound upon the shaft D, located at one side of the pasting-roller, the axis of said shaft being at or about a level with the periphery of the pasting-roller. The shaft D is mounted in bearings or pillow-blocks at each side of the box A, said bearings being combined with set-screws F, which are designed to bear upon the upper movable section of the journal-box, in order to vary the pressure upon the shaft D, for changing the speed of rotation of the roll of paper and the passage of the latter over the pasting devices. A guide or pressure roller, G, is located at the opposite side of the pasting-roller, which is located on the same level as the paper roll or shaft.

The operation of pasting and hanging the paper is accomplished by drawing on the paper, in fitting the same to the wall, until a piece the full length of the wall has been pasted to the latter, when it is cut off for repeating the operation.

During the passage of the paper over the pasting-roller the requisite pressure and guidance of the same is effected by the peculiar arrangement of the rollers or shafts, and thus a duplication of pressure-rollers is rendered unnecessary.

In order to prevent an excessive amount of paste from being applied to the paper, I arrange, in proper relation to the pasting-roller, doctor-plates or scrapers H, which bear against the periphery of the roller, and are attached to arms or rods I, projecting through the walls of the box A, and provided with screw-threaded ends and nuts *f*, for adjusting the doctors in respect to the pasting-roller.

The paper to be applied to the wall is wound on the shaft by means of a hand-crank and spur-gearing *a b c;* but, if found expedient, an entire roll of paper can be fitted in position on the roller D, for unwinding the paper directly from the same.

When not in use or during transportation,

the entire operative mechanism of the apparatus is protected and concealed from view by a cover, K, applied to the case or box, which is confined in place in the present instance by a hook and an eye, *d e*.

Having thus fully described my invention, what I claim is—

1. In combination with the paste-box, pasting-roller, and paper-receiving shaft, the adjustable bearings or boxes for the latter, substantially as described.

2. In combination with the pasting-roller and paste-box, the adjustable doctors or scrapers H, arranged as shown, and for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand this 1st day of April, 1874.

ROBT. BUSTIN.

Witnesses:
W. J. PEYTON,
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