(No Model.) 2 Sheets—Sheet 1.

F. H. STRIEBY & M. RANKIN.

MACHINE FOR CREASING AND PASTING BLANKS.

No. 265,643. Patented Oct. 10, 1882.

Fig. 1.

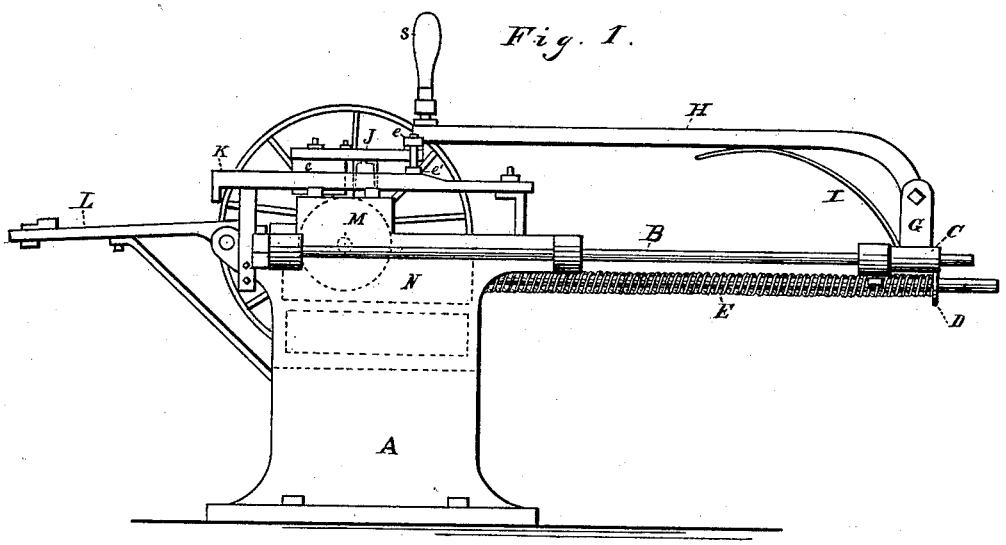


Fig. 3.

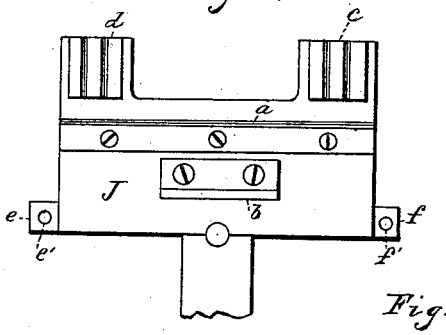


Fig. 4.

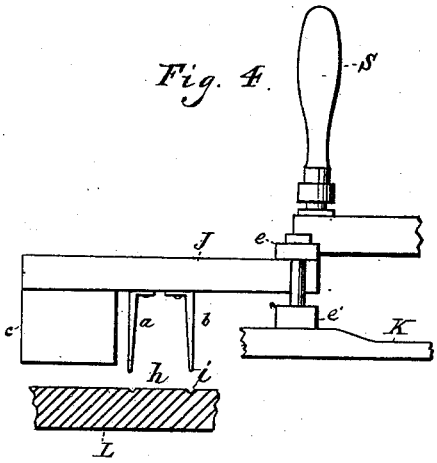
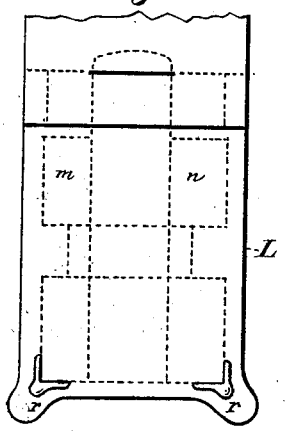


Fig. 5.



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(No Model.) 2 Sheets—Sheet 2.

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MACHINE FOR CREASING AND PASTING BLANKS.

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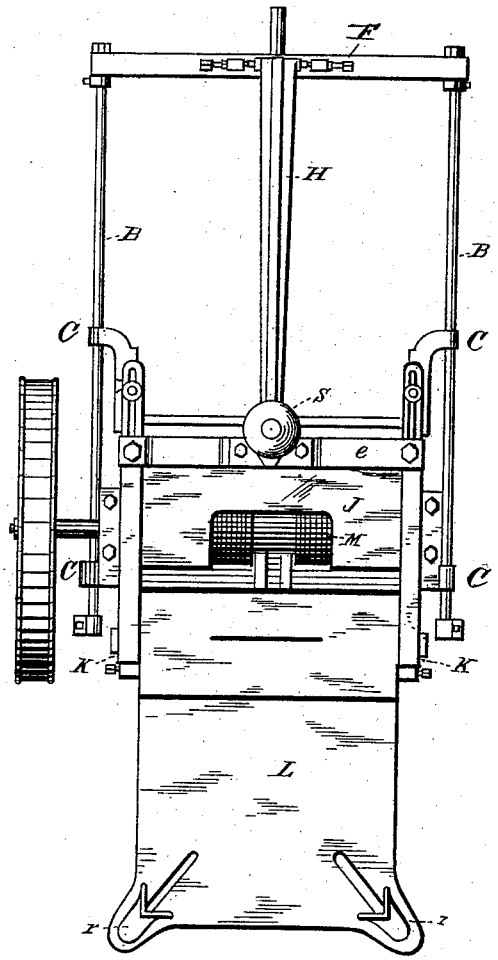
Fig. 2.



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UNITED STATES PATENT OFFICE.

FRANK H. STRIEBY AND MATTHEW RANKIN, OF CLEVELAND, OHIO.

MACHINE FOR CREASING AND PASTING BLANKS.

SPECIFICATION forming part of Letters Patent No. 265,643, dated October 10, 1882.

Application filed September 13, 1881. (No model.)

To all whom it may concern:

Be it known that we, FRANK H. STRIEBY and MATTHEW RANKIN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Machines for Creasing and Pasting Blanks; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

Our invention relates to a machine for creasing and gluing or pasting blanks for paper-box machines; and it consists in so connecting the creasing and paste-supplying pad that the machine will crease and supply paste to a blank at one and the same time.

In the drawings, Figure 1 is a side elevation, and Fig. 2 a plan view, of our machine. Figs. 3, 4, and 5 are enlarged detached views of parts of the same, showing more clearly their construction.

A is the base and standard of our machine. On the sides of the same are secured guide-rods B B. (See Fig. 2 of the drawings.)

C C are stationary bearings, of which there are four, two on each side of the machine, through which move the guide-rods B B.

D is a lug, which is attached to the cross-bar F, and is adapted to engage with the spring E.

F is a cross-bar, which connects the two rods B B. Extending upward from this cross-bar F is the piece G, to which is pivotally attached the arm H.

I is a flat spring, which supports the arm H, but allows it to move in a vertical direction. The lower end of the spring I is attached to the cross-bar F. To the forward end of the arm H is secured a plate, J, which is provided with creasing-knives *a* and *b* and gluing or pasting pads *c* and *d*. The construction of this plate J, with its creasing-knives *a* and *b* and pads *c* and *d*, is shown more clearly in Figs. 3 and 4, Fig. 3 being a plan view of the under side of the plate J and Fig. 4 a side elevation of the same. *e* and *f* are lugs, which extend from the side of the plate J, and which are provided with set-screws *e'* and *f'*, the heads of said set-screws resting on the guide-bars K K.

The guides K K are made cam-shaped, as shown in Fig. 1. The object of thus forming them will be explained hereinafter.

L is a table, on which rests the blank to be creased. This table is shown more clearly in Fig. 5, the dotted lines representing the blank. *h* and *i* are depressions made in the table L. These depressions *h* and *i* are in such a position on the table L as to come directly under the edge of the creasing-knives *a* and *b* when the arm H is brought forward so far that the heads of the set-screws *e'* and *f'* have passed the guide-bars K K, which will allow the arm H, with its plate J, to be forced downward on the blank which is laid on the table L.

M is a roll. (Shown in dotted lines, Fig. 1.) The lowest surface of this roll M is slowly revolved in a glue or paste container, N, also shown by dotted lines, Fig. 1.

The operation of our machine is as follows: A blank cut to proper shape, &c., is laid on the table L, where it is held in proper position by means of guides *r*. (See Fig. 5.) The handle *s* is grasped and the arm H brought forward. The weight of the plate J keeps the heads of the set-screws *e'* and *f'* down on the lowest part of the guide-bars K K, which allows the pads *c* and *d* to come in contact with the roll M and receive glue or paste. Now, as the arm H is brought still farther forward, the heads of the set-screws *e'* and *f'* ride up the incline on the bars K K, which raises the forward end of the arm H and with it the plate J. (See Fig. 1.) This raising allows the knives *a* and *b*, which extend lower than the pads *c* and *d*, (see Fig. 4,) to clear the roll M. The arm H is now brought forward until the heads of the set-screws *e'* and *f'* have reached the end of the guide-bars K K, which allows the plate J, with its creasing-knives and pasting-pads, to fall on the blank, when the creasing-knives will form creases on the blank, as shown by solid lines, Fig. 5, and the pads *c* and *d* will deposit glue or paste on the parts *m* and *n* of the blank. (Also see Fig. 5.) The plate J is now lifted and the heads of the set-screws placed again on the guides, when the springs E E will return the arm and plate to the old position again, and the operation may be repeated.

Our invention consists in so connecting a creasing knife or device with a paste-supply-

ing device that a blank will be creased and pasted at one and the same operation.

What we claim is—

1. The combination, with a plate provided with creasing-knives and pasting-pads, a blank-holding table provided with grooves to receive the knives, and a paste receptacle and distributer located below said pads, of devices, substantially as shown, for moving said plate to first bring said pads in contact with the paste-distributer, and, secondly, to bring both the knives and pads in contact with said table to simultaneously crease and paste the blank lying thereon, substantially as set forth.

2. In a machine for creasing and pasting blanks, the combination of the arm H, plate J, said plate having creasing-knives and pasting-pads, and a paste-supplying roll, M, all operating substantially as and for the purpose shown and described.

3. In a machine for creasing and pasting blanks, the combination of the arm H, plate J, and guiding-bars K K with roll M, all operating substantially as and for the purpose shown and described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

FRANK H. STRIEBY.
MATTHEW RANKIN.

Witnesses:
ALBERT E. LYNCH,
HENRY ABELS.