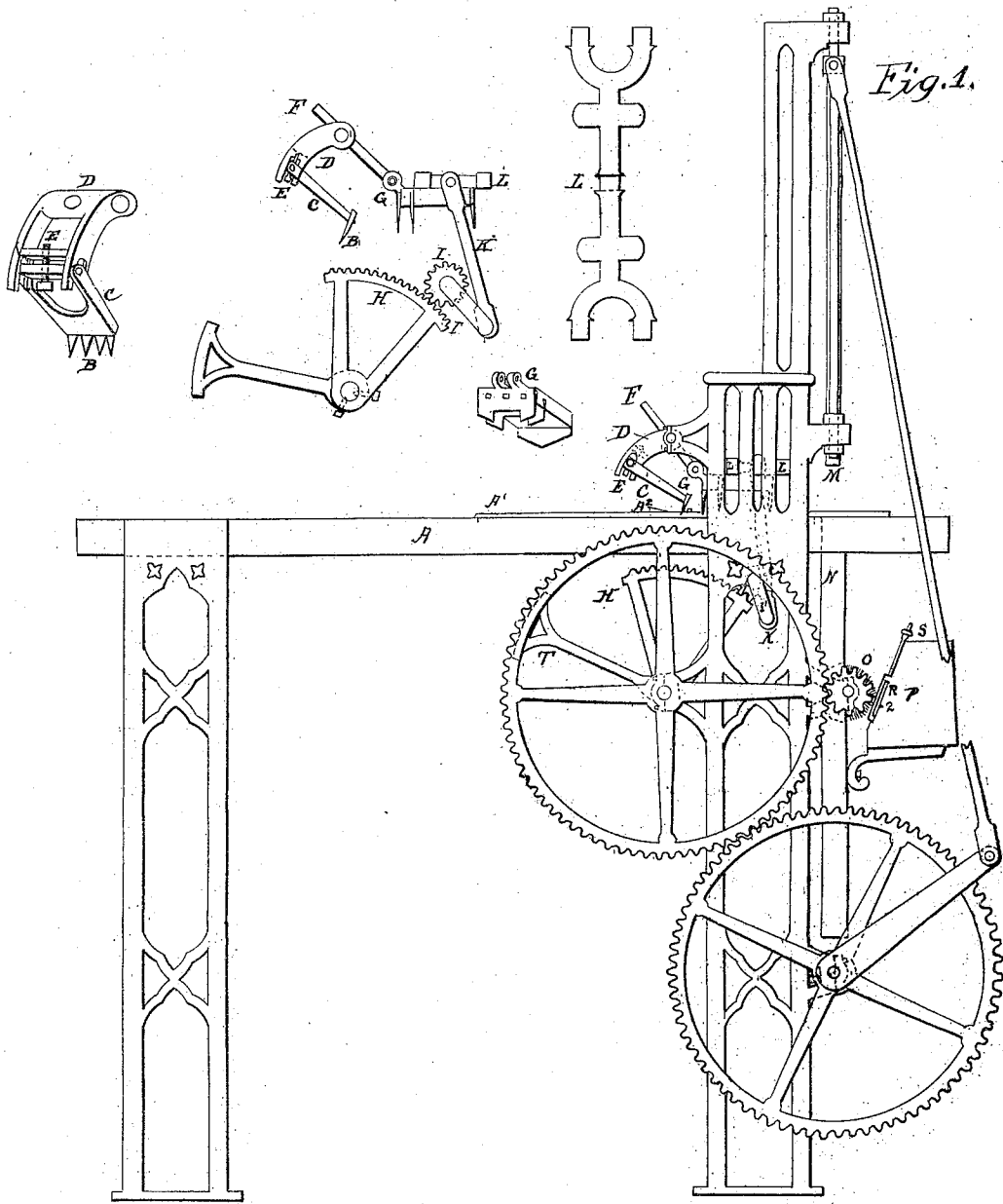


J. MILLER, Jr
MACHINE FOR MAKING PAPER BAGS AND BOXES.

No. 32,777.

Patented July 9, 1861.



Witnesses:
G. E. Miller
E. J. Boyl

Inventor
John Miller Jr.

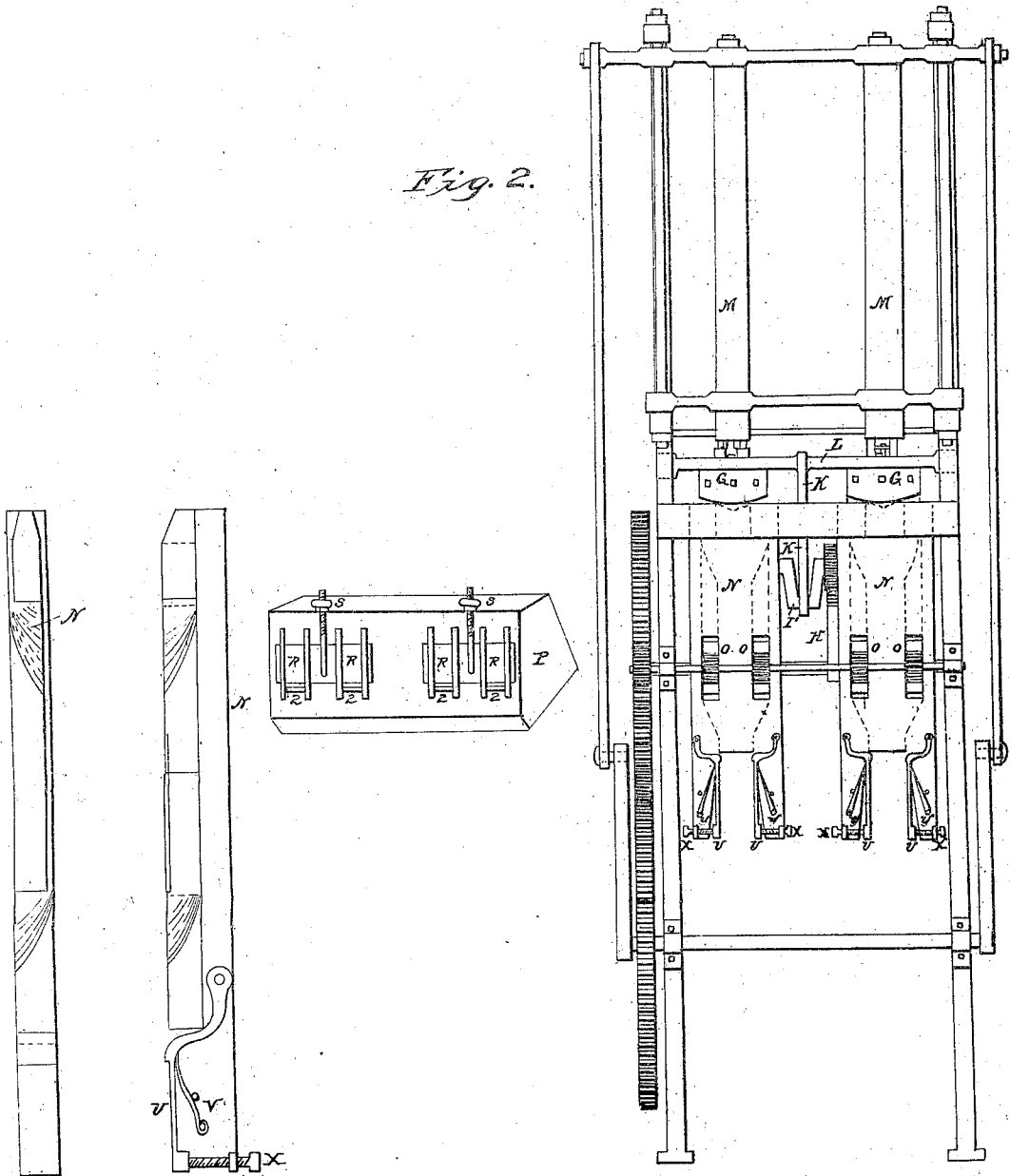
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MACHINE FOR MAKING PAPER BAGS AND BOXES.

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Fig. 2.



Witnesses:
G. K. Miller
E. J. Croft

Inventor:
John Miller Jr.

UNITED STATES PATENT OFFICE.

JOHN MILLER, JR., OF BALTIMORE, MARYLAND.

MACHINE FOR MAKING PAPER BAGS AND BOXES.

Specification of Letters Patent No. 32,777, dated July 9, 1861.

To all whom it may concern:

Be it known that I, JOHN MILLER, Jr., of Baltimore city, Maryland, have invented a new and Improved Machine for Making Boxes of Paper; and I do hereby declare the following is a clear and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, in which—

Plate 1 Figure 1 is a perspective view accompanied by details. Plate 2 Fig. 2 is a longitudinal view accompanied by details.

My machine consists of a table or platform A which receives the paper in strips or sheets previously reduced to the desired width and which are fed or moved forward between guides A¹ to their proper place by the finger points B attached to arm C which is jointed on the rocker shaft D and regulated in its length of stroke by the set screw E and moved forward and backward by the bar or lever F hinged to the cutter G and working through a slot in the axle of the rocker shaft D which gives the feeder an irregular motion causing it to move slower at the start and ending thereby preventing the finger points B from slipping their hold on the paper and effecting the moving and adjusting of it with certainty. There are incline planes A² on the guides A¹ which elevate the finger points B from the paper at the commencement of their return stroke and prevent its being moved forward until the knives of the cutter G have been raised sufficiently to clear it thereby preventing its catching against them. The cutter G cuts off the proper length of paper to form the box and at the same time makes the cuts for the bottom and sides of the next succeeding box. The cutter G is moved in its proper time by the segment of cog wheel H working on the pinion I which is connected by the crank J and strap K to the bar or cross head L which is attached to cutters G. The paper when cut and moved forward as described is pressed by the piston M through the box or mold N having curved sides or ends of such form as to fold the paper to the desired shape. The glue or paste is applied to the paper in its passage through the molds

N by the circular brushes O. O. O. O. working through openings in the mold N the glue or paste being supplied to the brushes O by the fountain P which has openings Q, Q, Q, regulated by the sliding lids R R adjusted by screws S, S, so as to give the desired space for the flow of the glue or paste which is taken up by the brushes O, O, O, O working over said openings. The paper while receiving the glue or paste is pressed against the brushes O O O O by the cams T T T T.

There are connected to the mold N clasps or bars U U U U pressed together by the springs V V V V, which clasps or bars receive the boxes from the piston M and retain them in shape for the purpose of giving time for the glue or paste to set until the return of the piston with the succeeding box which then takes a similar position the former boxes being pushed or dropped therefrom, the clasps or bars U U U U are regulated in the pressure by the set screws X X X X.

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

1. The combination of the crosshead L, lever F, rock shaft D, adjustable arm C, and fingers B, constructed and operating substantially as explained to impart an intermittent feed movement to the strips of paper.

2. The cutter G, constructed as shown and described and operating in connection with an intermittent feeding device substantially as and for the purpose set forth.

3. The mold or folder N, constructed as described and operating in connection with a suitable plunger substantially as and for the purposes set forth.

4. The combination of the rotary brush O, fountain P, and pressure cams T, operating to paste or glue the boxes while passing through the molds as explained.

5. The spring clasps U V, applied beneath the molds N, employed to hold the joints of the boxes until set, as hereinbefore explained.

March 28, 1861.

JOHN MILLER, JR.

Witnesses:

G. K. MILLER,
E. T. CROSS.