3 Sheets--Sheet 1.

D. COLBOCK.

Paper-Feeding Machine.

No. 162,352. Patented April 20, 1875.

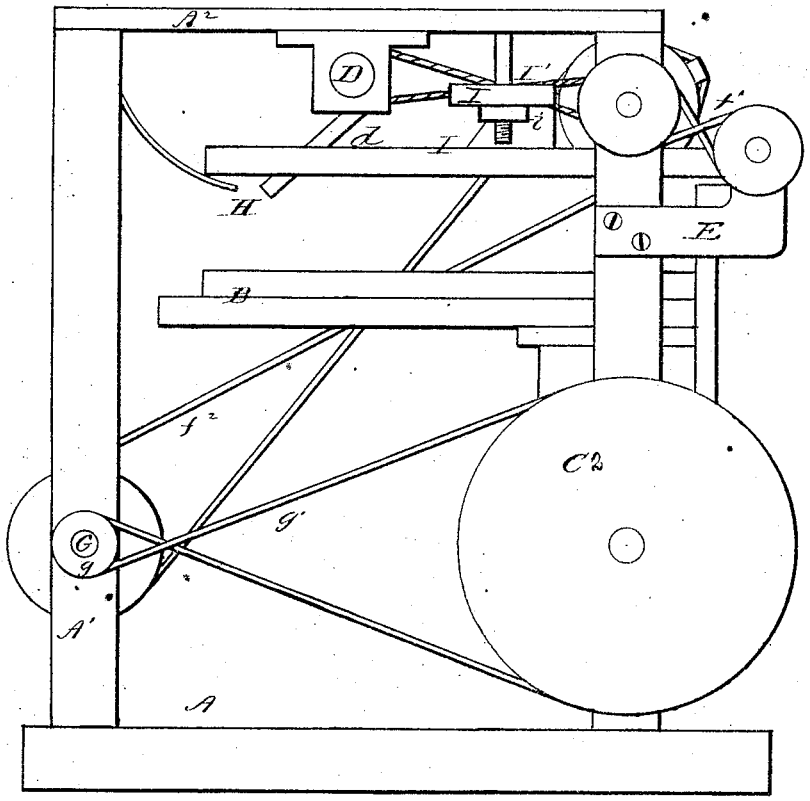

Fig. 1

Witnesses

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3 Sheets--Sheet 2.

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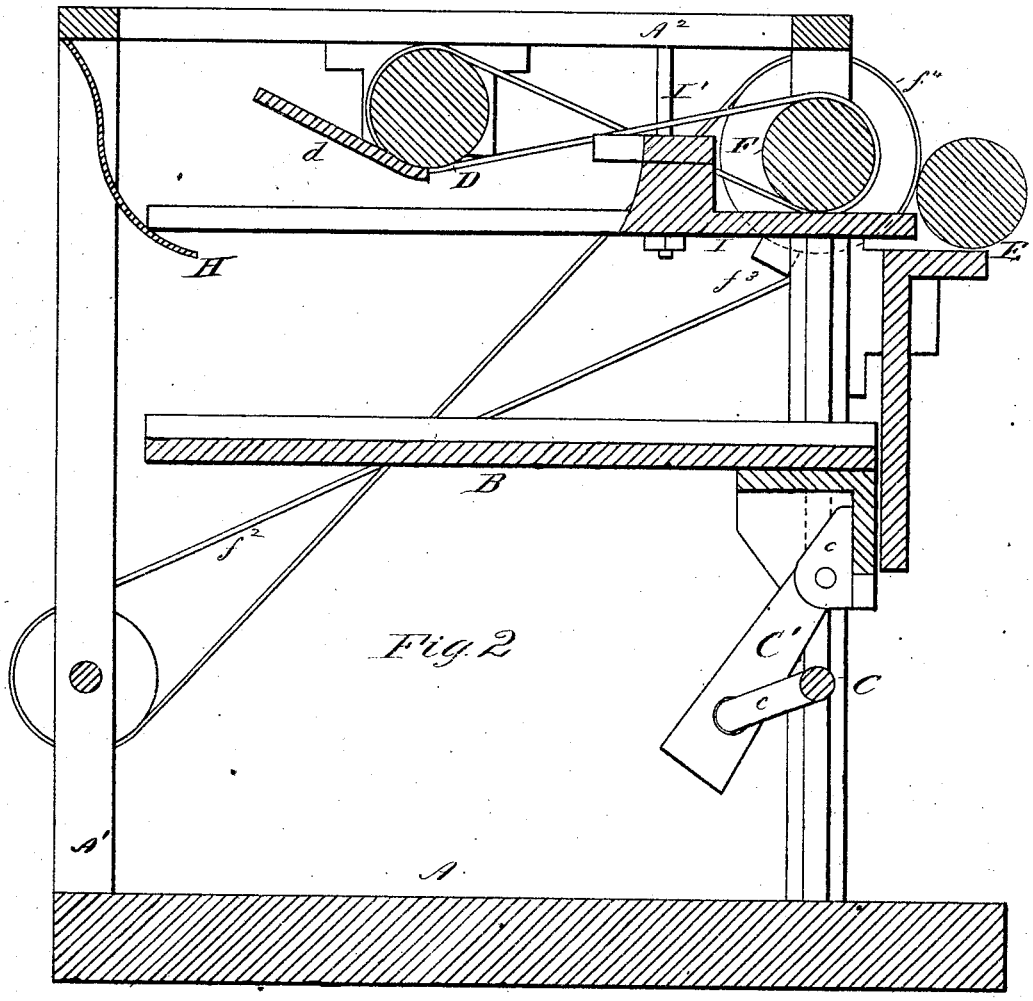

Fig. 2

Witnesses
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3 Sheets--Sheet 3.

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Paper-Feeding Machine.

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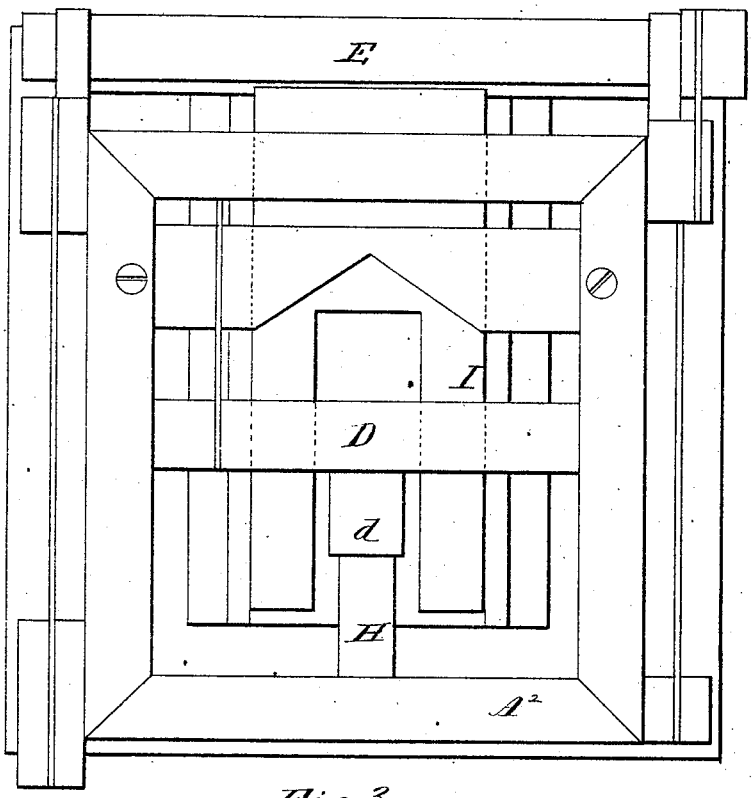

Fig 3

Witnesses
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THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

DAVID COLBOCK, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN PAPER-FEEDING MACHINES.

Specification forming part of Letters Patent No. **162,352**, dated April 20, 1875; application filed February 20, 1875.

To all whom it may concern:

Be it known that I, DAVID COLBOCK, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Paper-Feeding Machine; and I 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, in which—

Figure 1 is a side elevation of my invention; Fig. 2, vertical longitudinal section. Fig. 3 is a top view.

My invention has for its object to provide an appliance for feeding paper automatically to ruling-machines.

My invention and improvements consist in the peculiar construction and combination of parts, as hereinafter more fully described.

In carrying my invention into effect, I provide a rectangular frame, supporting the various movable parts. The paper sheets are placed upon a platform or table movable vertically by means of crank-arms on a slowly-revolving shaft. Above this vertically-movable table is a fast-going shaft, having a rubber finger, by which the top sheet of the pile is pushed into the bite of a roller, by which it is carried to the ruling-machine. The gearing is provided with a stop-motion, so arranged that the platform will cease ascending until the top sheet has been drawn through the roller, so as to prevent the elastic finger from starting a second sheet before the first one has been drawn off the pile.

Referring to the accompanying drawing, A shows a rectangular frame, having standards A^1 and top pieces A^2. B is a platform or table, supported on pitmen C′, attached to crank-arms *c c* of a slow-moving shaft, C. D is a rapidly-moving shaft, located above the platform B, and provided with an elastic finger, *d*, by which the top sheet of the pile of paper laid on said platform is moved forward into the bite of the roller E. F is a shaft, from which proceeds a cross-band, f, to the shaft D, and another cross-band, f^1, to the roller E. From the opposite end of said shaft proceeds still another cross-band, f^2, to an idler-shaft, G, and from a pulley, g, on said idler another cross-band, g', to the large pulley C′ on the shaft C. f^3 is a stop or ridge on the pulley f^4, by which the band f^2 is kept taut at times. When, however, the stop f^3 comes into position in its revolution, as shown in the drawing, the band f^2 hangs loose, and the table B ceases to rise, this being, as already described, for the purpose of allowing the top sheet, started by the finger *d*, to be drawn off the top of the pile before another sheet is started. H is a binding-spring for holding down the pile of paper on the platform B. I is a leaf, sustained on hangers I′ I′, passing through openings in the frame-pieces A^2, and having adjusting-nuts *i i* at their lower extremities. The object of this leaf is to hold the pile down to position on the table B, and prevent more than one sheet passing at one time into the roller E. The leaf I has a slot, through which the finger *d* works.

What I claim as my invention is—

1. The leaf I, for holding down the paper and preventing the advance of more than a single sheet at once, said leaf having a central longitudinal slot, in combination with the rotary feeding-finger *d*, substantially as described and shown.

2. In combination with the table B and finger-shaft D of a paper-feeding machine, the shafts F and G and pulley C′, the cross-bands f, f^2, and g' communicating a fast motion to the shaft D and a slow motion to the shaft C, as set forth.

3. In combination with the crank-shaft C, table B, and shaft D, the roller f^4, having the ridge f^3, for stopping the upward motion of the table while the top sheet is being drawn through by the roller E, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of February, 1875.

DAVID COLBOCK.

Witnesses:

JAMES HOFFMAN,

CHAS. F. VAN HORN.