

No. 10,827.

PATENTED APR. 25, 1854.

G. LITTLE.

MODE OF OPERATING THE FEED TABLES OF PRINTING PRESSES.

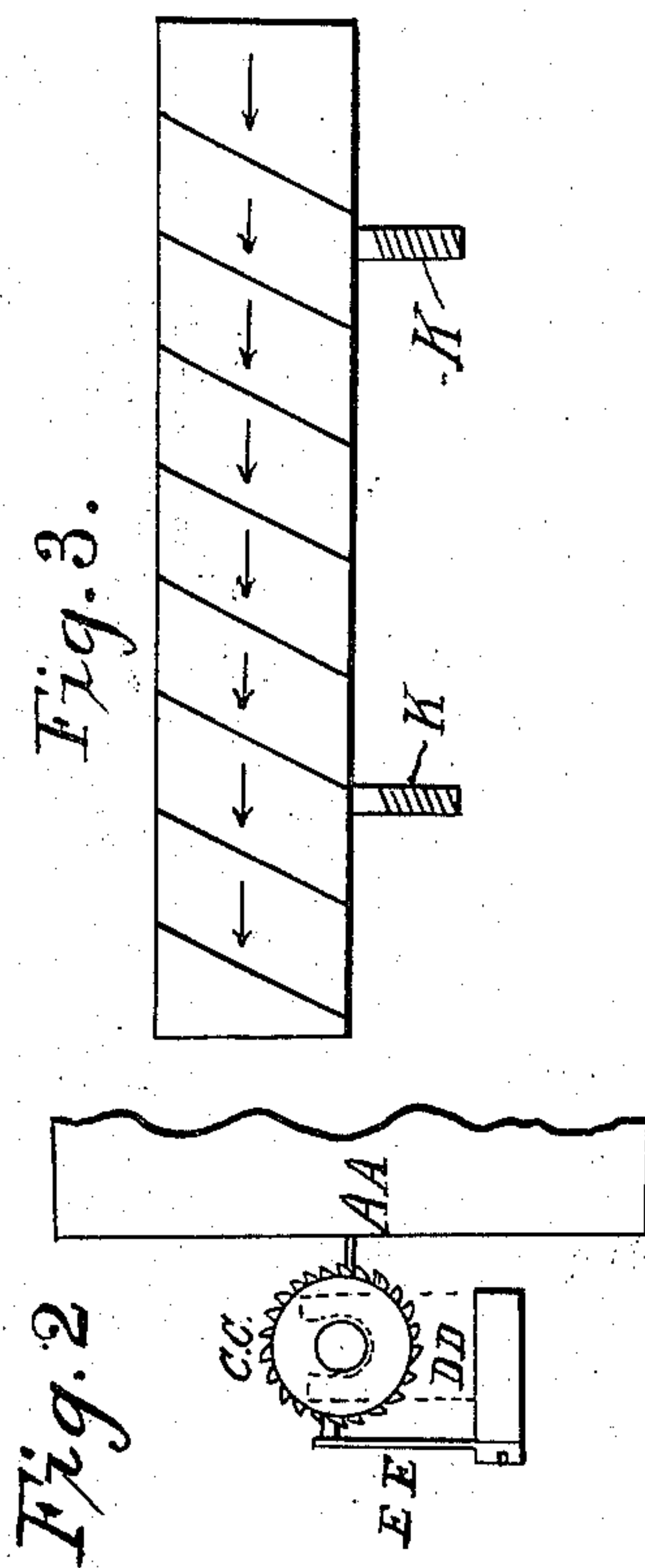
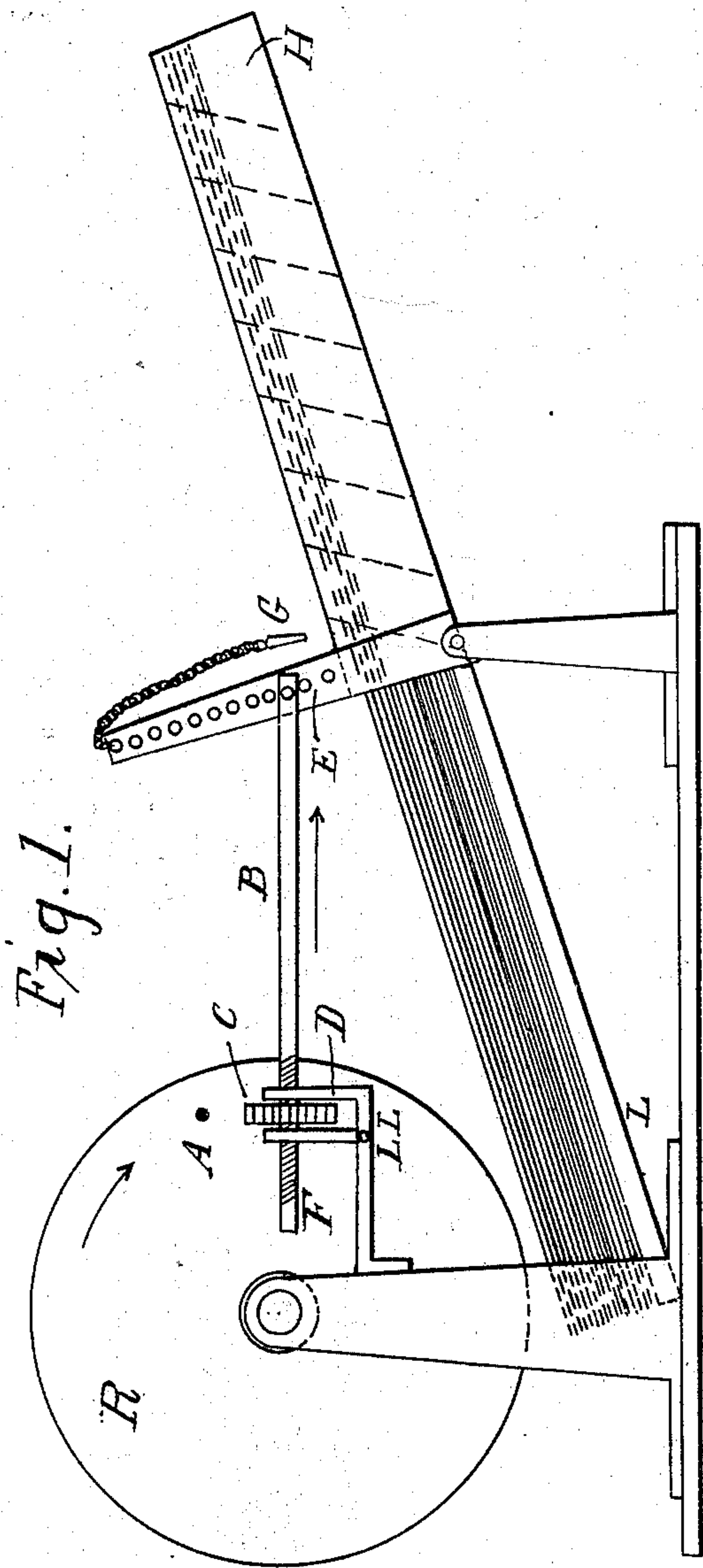
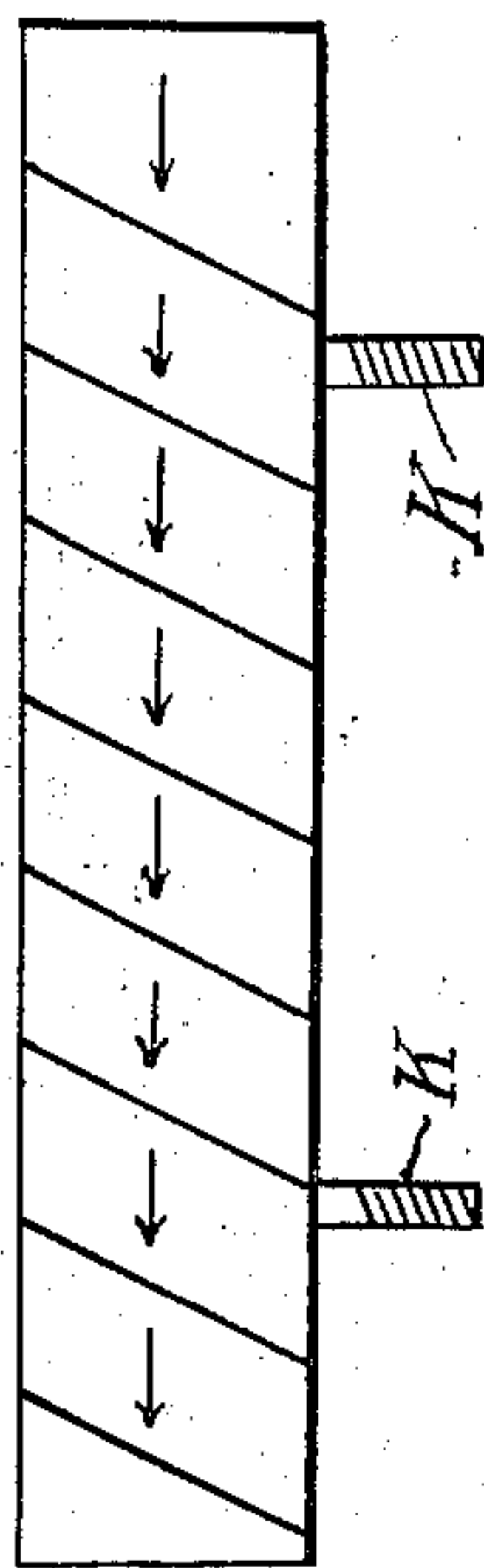


Fig. 3.



UNITED STATES PATENT OFFICE.

GEORGE LITTLE, OF UTICA, NEW YORK.

MODE OF OPERATING THE FEED-TABLES OF PRINTING-PRESSES.

Specification of Letters Patent No. 10,827, dated April 25, 1854.

To all whom it may concern:

Be it known that I, GEORGE LITTLE, of Utica, Oneida county, in the State of New York, have invented a new and Improved
5 Mode of Feeding Paper to Printing-Presses; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

10 The nature of my invention consists in applying to one or both sides of the feed table a ratchet wheel working on a screw attached to one end of a connecting rod,
15 the other end of said connecting rod being attached to an arm or crank having a series of holes in the same so as to allow a ready means for adjusting the table upon which the paper to be printed is placed, the
20 ratchet wheel being kept in motion by means of a pin inserted and projecting from one end of the hollow cylinder or roller, thereby causing said table to rise as the
25 sheets of paper are being removed to be printed. I also attach two guides faced with india rubber to the table in such a way that the same presses the mass of paper by its edges in order to prevent by its resistance
30 more than one sheet of paper from being carried to the press during the operation of printing.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

35 Figure 1, shows a side view of the feed cylinder or roller R, and the table with its guides H, the ratchet wheel, screw, and arm or crank. Attached to the same. Figs. 2, and 3 are sections of the same, A, Fig. 1,
40 a pin projecting from the end of the feed cylinder, which said pin works into the ratchet wheel C, and carries the same around one tooth or more during each revolution of the cylinder in the direction of the arrow
45 shown above the pin. The ratchet during its rotation works the screw so as to force out the rod B, in the direction of the arrow and with it the arm or crank E, attached to the center of the table, thereby
50 causing said table to raise its end L, the

thickness of a sheet of paper at each operation of the press. If the paper be of a thick nature the pin G, attached to the chain is to be withdrawn from the hole at E and the rod secured a hole or two lower, so as
55 to shorten the action of the arm or crank, which will cause the table to raise faster. On the contrary, the thinner the paper is, the longer must be the arm or crank. Said rod has a portion of its screw turned off
60 at F, so that when the table is raised to its full extent and all the paper printed the ratchet will work on said smooth part at F only, thereby preventing the frame D, or the arm or crank from being broken or
65 injured; the frame D, to be jointed at L, L, to allow for the rise and fall of the rod B. When it is desired to reset the table for operating, the rod B, with the ratchet, is to be lifted out of the frame D, and said
70 ratchet to be screwed on to the rod again a sufficient distance. This will depend entirely as to the quantity of paper that may be placed upon the table. I prefer the top
75 sheet of paper to be on all occasions about one half an inch from the surface of the roller or cylinder.

Fig. 2, shows the end of the cylinder or roller A, A, with the pin projecting and in the act of passing the ratchet C C, around
80 D D, shows the ratchet frame with the upper part of the bearing left open for the more ready means of lifting out the ratchet and screw for adjusting the same. A spring or catch may be used if necessary in
85 order to prevent the ratchet from having a tendency to move around more teeth than may be desired, as shown at E E.

Fig. 3, shows the mode I prefer of fixing the india rubber to the guides H, H, and
90 H Fig. 1. The short black lines with the arrows between represent grooves with the rubber inserted therein and projecting about one quarter of an inch more or less, so that the edges of the paper may slightly
95 curve between the same and thereby offer a better resistance to the taking of more than one sheet at a time in the direction of the arrows than would be offered by a plain
100 surface only. The said guides may if de-

sired be made to adjust for different size sheets of paper by the aid of pins or screws shown at K, K, said pins or screws to fit in grooves in the sides of the table and be
5 secured with screw nuts.

What I claim as my invention and desire to secure by Letters Patent is—

The mode substantially as herein de-

scribed for operating the feed tables of printing presses together with the guides 10 composed of india rubber or other suitable resisting material.

GEORGE LITTLE.

Witnesses:

D. GILLMORE,
JOHN ALLAD.