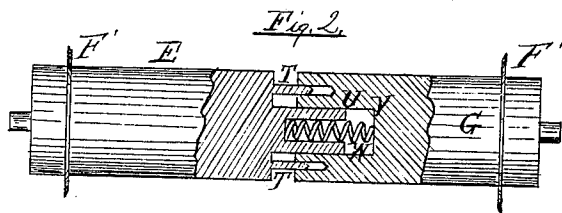


No. 111,797.

Patented Feb. 14, 1871.



Witnesses.

Thos. H. Gridsday,
Care J. Gurnors,

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UNITED STATES PATENT OFFICE.

WILLIAM P. YEOMAN, OF WAUKEGAN, ILLINOIS.

IMPROVEMENT IN PAPER-TRIMMING MACHINES.

Specification forming part of Letters Patent No. 111,797, dated February 14, 1871.

To all whom it may concern:

Be it known that I, WILLIAM P. YEOMAN, of Waukegan, in the county of Lake and State of Illinois, have invented an Improved Machine for Trimming Wall-Paper; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings and letters marked thereon, making a part of this specification, in which—

Figure 1 is a perspective representation of my improved machine; Fig. 2, a sectional elevation of one of the feed-rollers, showing the arrangement for keeping the knives adjusted.

The present invention is an improvement on a machine for a similar purpose patented by me the 9th day of June, 1868; and its nature consists in the application to the feed-table of a spring side, whereby a roll of wall paper unevenly wound may be so held as to be readily unwound as the paper is passing between the feed-rollers.

A A' represent two suitable iron sills supporting upright standards L, which have bearings formed in them for the pivots of the feed-rollers E G E', and one of which supports a journal for an internal drive-wheel, J, and a pinion, K, Fig. 1, said pinion driving the roller E G, which rotates the roller E' by friction. To the sills A', by means of screws put up through from their undersides, are fastened guides P S, which are provided with grooves *b b*, so that tongues fastened to the under side of the feed-table H may slide therein as said table is moved longitudinally relatively to rollers E G E'. The table H is provided with two guides, N, to keep the paper in position when being trimmed, and one guide at N is so cut away as to allow the end M to have a little spring. This arrangement is necessary, inasmuch as the edges of the paper are not usually laid even at the ends of the roll, making some longer than others, and, as it is important that the roll should have no longitudinal motion on the rod, holding it and fastening in bearings I I. In order to hold the table in a fixed position, a standard, R, is made to project up from one of the sills A, and

a standard to project down from the table H. A collar set-screw, Q, is held in the standard R and made to move and hold the table H, thus preventing the table from getting out of place, as is the case in the table described in the patent referred to. The lower roller is made in two parts, as shown in Fig. 2, and the part E is provided with a projecting cylinder, U, which fits into a correspondingly-sized orifice, V, in the part G, as clearly shown, and the cylinder supports a coiled spring, W, which bears against the parts E G and forces the flat sides of the knives F' outward against the inner sides of the knives F on roller E'. This means for adjusting the knives is not liable to get out of order, while at the same time the roller carries the paper to the knives the same as though it were one piece. The brackets B, for supporting the roller A, standards L, sills A, and standard R, are cast in one piece, thus giving the machine a neat, light appearance, although it is strong and durable. The means for adjusting the feed-rollers relative to each other consist of coiled springs tapped into the tops of standards L, and held in place by means of a cap or cross piece, C'.

Operation: Any suitable round rod is put through the roll of paper, and then put into bearings I. The paper is then brought forward to the feed-rollers, which are rotated by turning wheel J. A band, D, running from J to pulley C, drives a reel, A, on which the paper is wound as its edges are cut. The knives F F' F' are placed the proper distance apart to trim both edges of butting paper, one set of knives, however, being used to trim ordinary wall-paper.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

The feed-table H, combined with the spring-guide N' N, which serves the purpose of holding the different lengths of paper rolls and of guiding the paper to the knives, as described.

W. P. YEOMAN.

Witnesses:

THOS. H. LINDSAY,
LON. J. GURNER.