G. L. JAEGER

MACHINES FOR FEEDING AND CUTTING PAPER AND OTHER MATERIALS.

No. 195,824. Patented Oct. 2, 1877

Fig. 1.

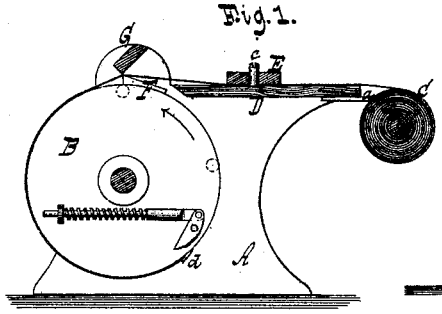


Fig. 2.

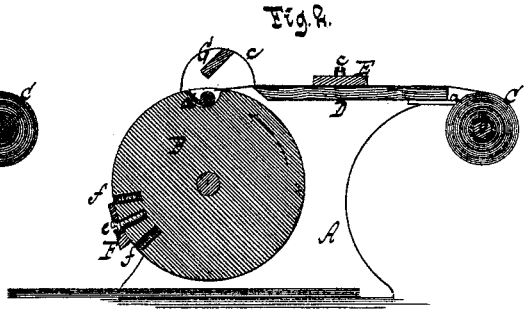
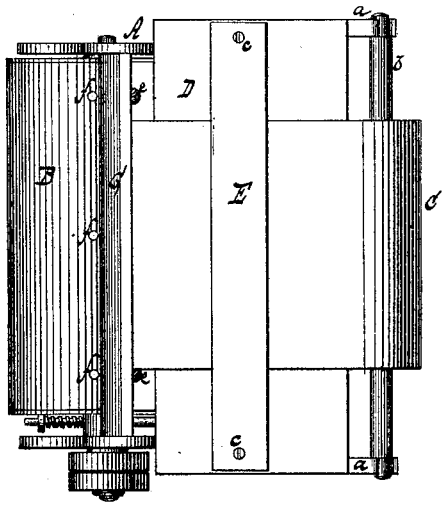


Fig. 3.



Witnesses.
Otto Skyeland
Chas. Wahlers.

Inventor
Gustav L. Jaeger.
by
Van Santvoord & Hauff
his attorneys.

UNITED STATES PATENT OFFICE.

GUSTAV L. JAEGER, OF NEW YORK, N. Y.

IMPROVEMENT IN MACHINES FOR FEEDING AND CUTTING PAPER AND OTHER MATERIALS.

Specification forming part of Letters Patent No. **195,824**, dated October 2, 1877; application filed September 6, 1877.

To all whom it may concern:

Be it known that I, GUSTAV L. JAEGER, of the city, county, and State of New York, have invented a new and useful Improvement in Machines for Feeding and Cutting Paper and other Materials, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side view, partly in section, showing the machine at the moment the cutters take action. Fig. 2 is a longitudinal vertical section, showing the end of the web in the position which it occupies after a sheet has been cut therefrom, said end being left in position to be grasped by the gripers; and Fig. 3 is a plan or top view.

Similar letters indicate corresponding parts.

This invention consists in the combination, in a machine for feeding and cutting paper and other materials, of a griper-cylinder, a web-support between the roll and the griper-cylinder, a stationary cutting-blade secured to the frame containing the griper-cylinder, and a knife which is firmly fastened on the griper-cylinder, and which can be adjusted thereon, so that after the first sheet has been cut from the web the end of the web is left in the proper position to be grasped by the gripers, and the web is drawn off from the roll by the griper-cylinder and cut into sheets, the length of which can be regulated by adjusting the knife on the griper-cylinder.

In the drawing, the letter A designates a frame, which forms the bearings for the griper-cylinder B, and from which extend arms *a a*, which form the bearings for the shaft *b*, on which is wound the roll, C, of paper or other material to be cut up into steets. Between this roll and the griper-cylinder is situated a table, or other suitable support, D, over which the web is passed to the griper-cylinder. In passing over this support, the web is exposed to the action of a weight, E, which is retained in position by pins *c c*, secured in the support, and which bears down upon the web by its inherent gravity, so as to produce the requisite tension.

The cylinder B is provided with gripers *d*, of the construction generally employed in the griper-cylinders of printing-presses, and on said cylinder is firmly secured a knife, F, which co-operates with a stationary cutting-blade, G, fastened in the frame A, above the griper-cylinder. The knife F is held in position by two or more screws, *e*, and the cylinder is provided with several sets of holes, *f*, for the reception of these screws, so that said knife can be adjusted at different distances from the gripers *d*, or for sheets of different length.

After the knife has been adjusted for the desired length of the sheets, the end of the web is drawn off from the roll, and brought in the position shown in Fig. 2. Then the griper-cylinder is rotated in the direction of the arrow shown on it in Figs. 1 and 2. The gripers take hold of the web, and carry the same round the griper-cylinder until the same is cut by the action of the knife F and cutting-blade G, as indicated in Fig. 1. When the first sheet has been cut off, the end of the web is left in the position shown in Fig. 2; and as the motion of the cylinder B continues, the gripers take hold of said end, the web is again drawn round the griper-cylinder, and the second sheet is cut off, and so on.

By moving the knife F forward in the direction of the arrow on the cylinder B, the length of the sheets is reduced, and vice versa.

It will be seen from this description that by this machine the web is drawn off from the roll by the action of the griper-cylinder, and then cut into sheets of any desired length by the combined action of the stationary cutting-blade and the knife, which is secured to the griper-cylinder itself, the whole being so arranged that the machine is rendered extremely simple.

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

The combination, in a machine for feeding and cutting paper and other materials, of a griper-cylinder, a support for the web between the roll from which the web is taken and the griper-cylinder, a stationary cutting-blade secured to the frame containing the griper-cylinder, and a knife which is firmly fastened on the griper-cylinder, all constructed and adapted to operate substantially in the manner and for the purpose herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 29th day of August, 1877.

GUSTAV L. JAEGER. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.