

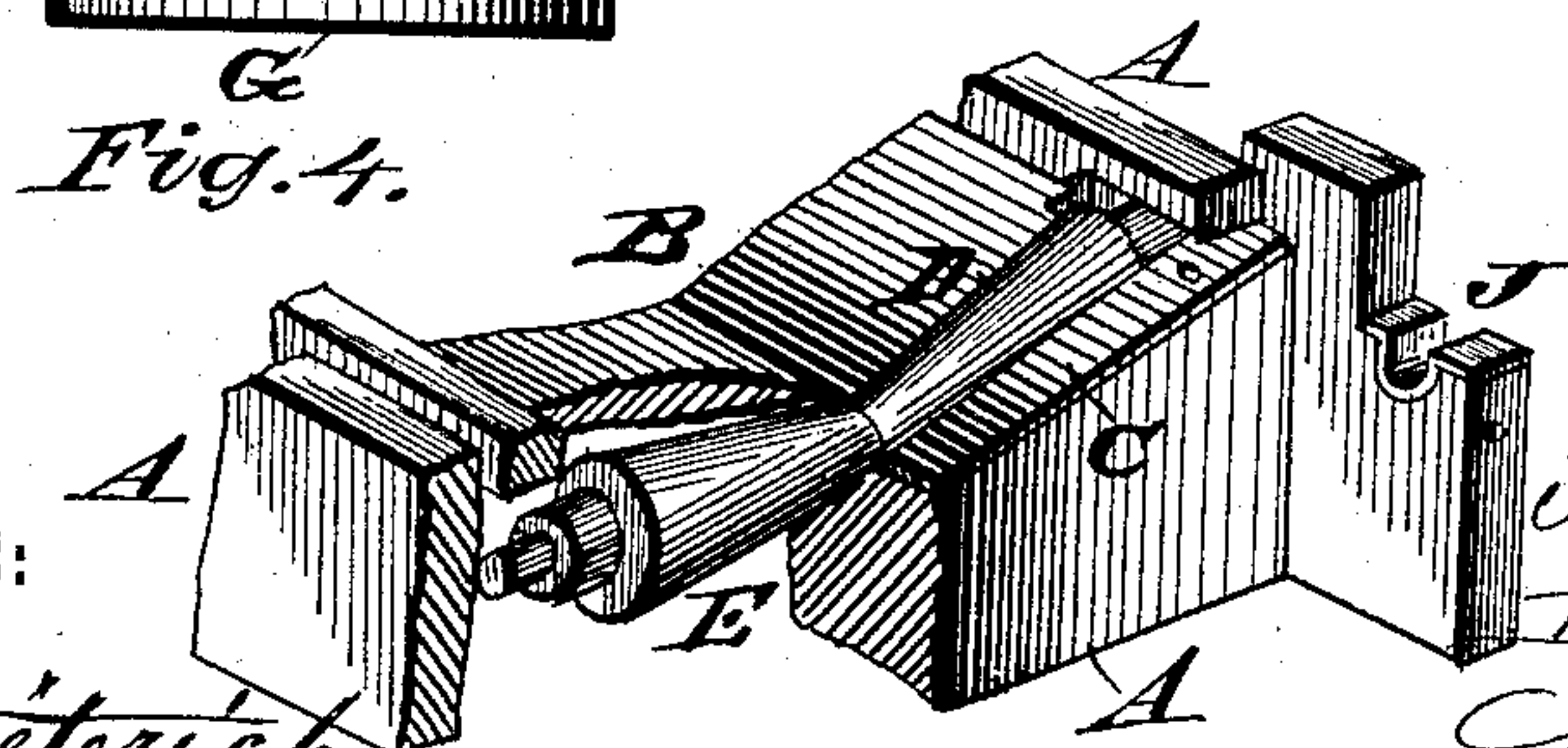
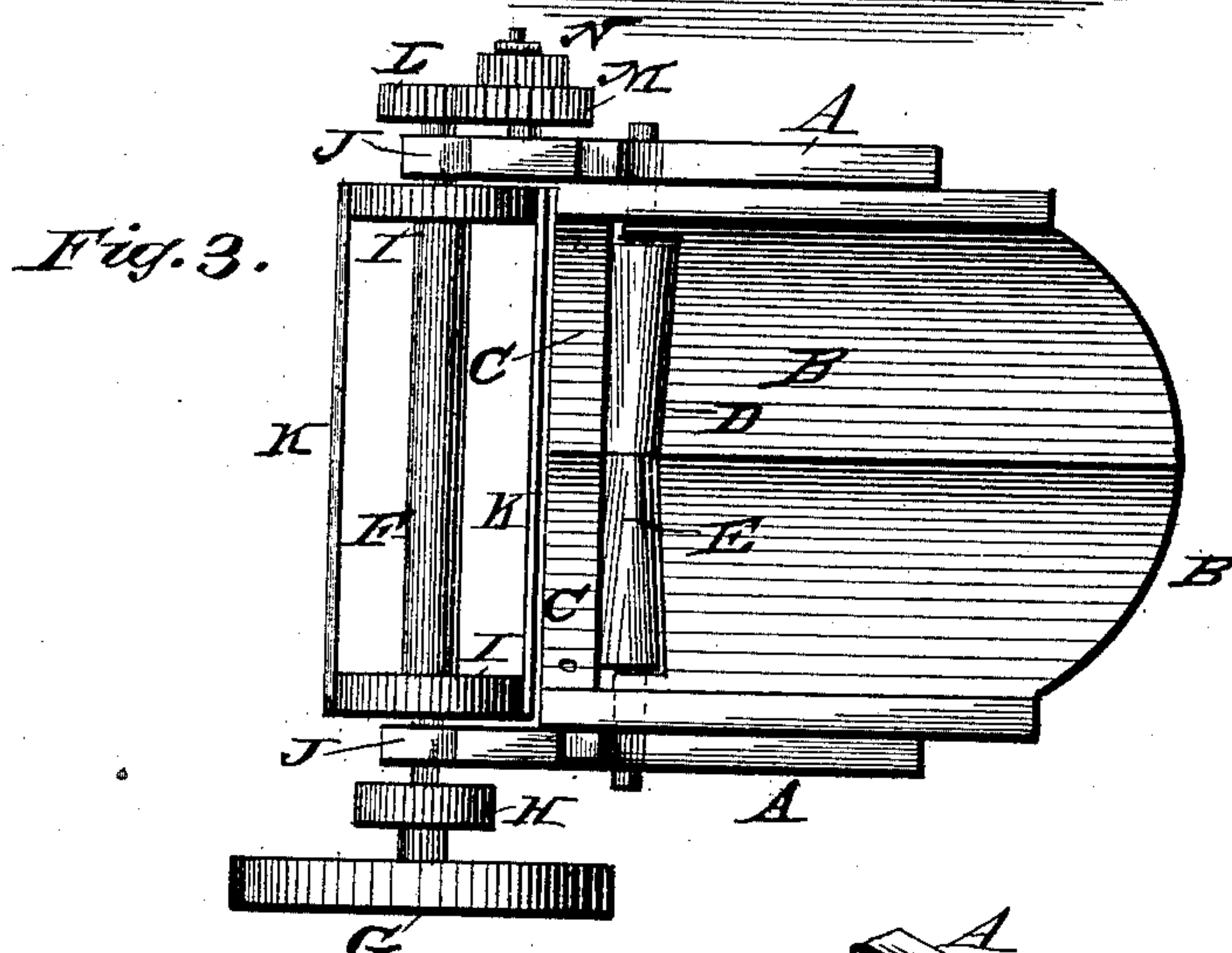
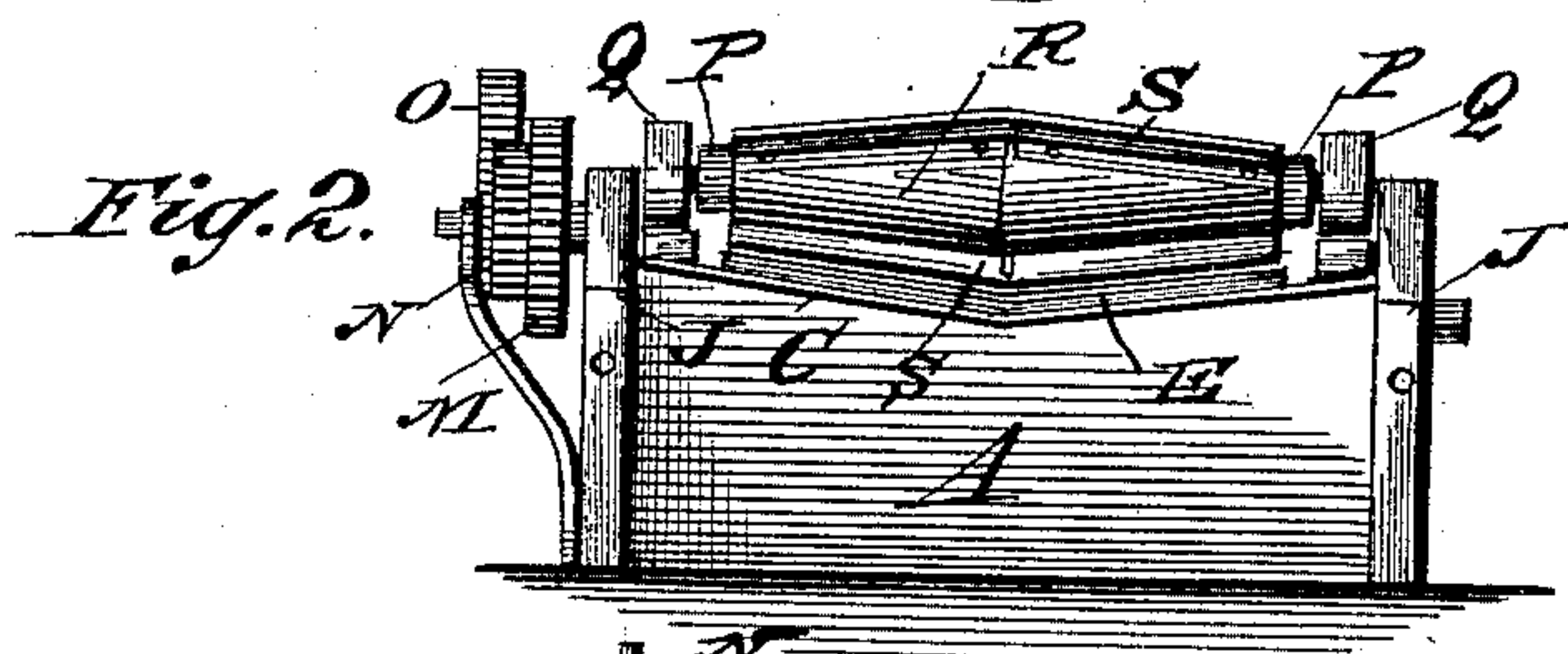
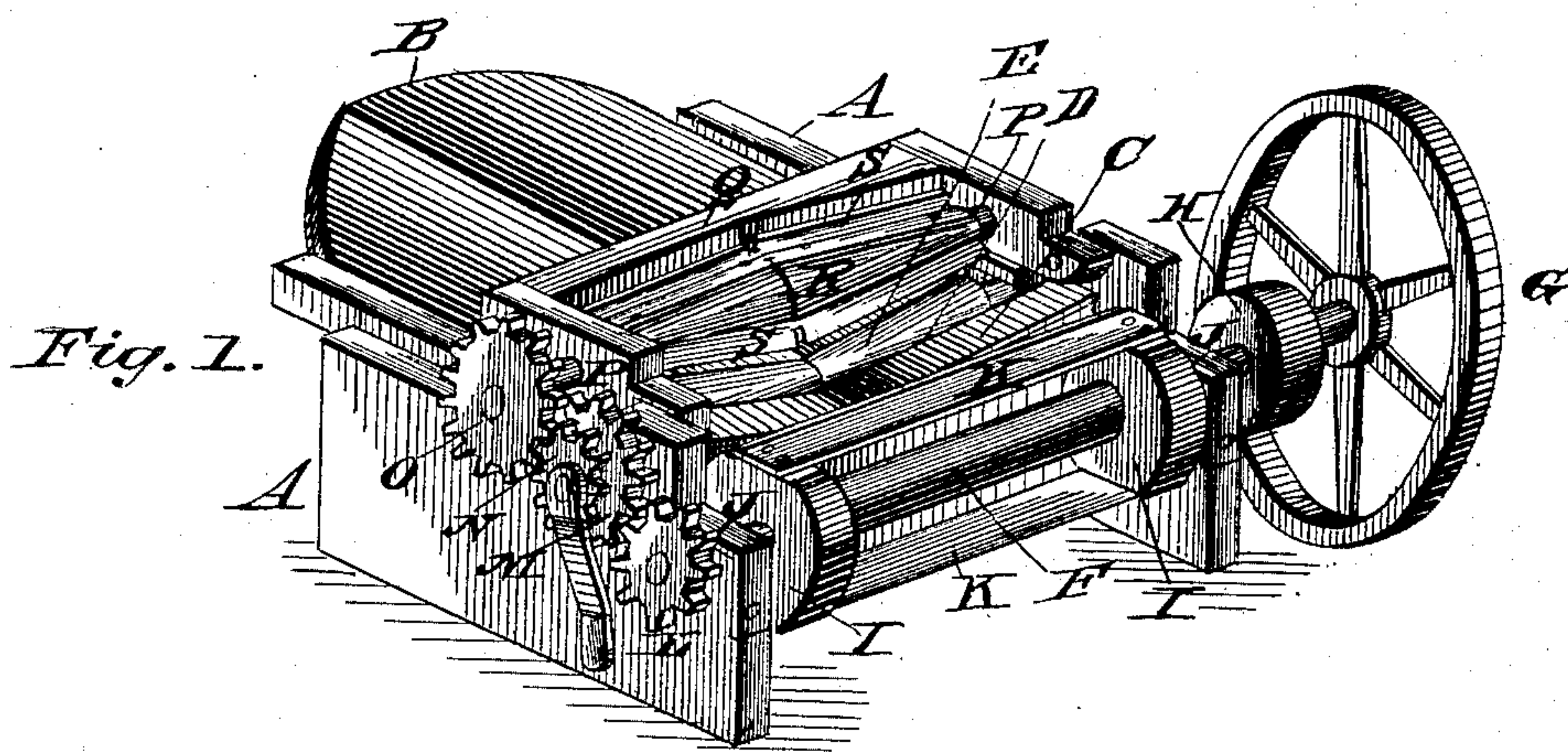
(No Model.)

A. H. WELLINGTON.

STRAW CUTTER.

No. 327,365.

Patented Sept. 29, 1885.



WITNESSES:

Fred. S. Dietrich
John Fecher

A. H. Wellington
INVENTOR.

Louis Bagger & Co
ATTORNEYS.

UNITED STATES PATENT OFFICE.

AMOS H. WELLINGTON, OF LEBANON, NEW HAMPSHIRE, ASSIGNOR TO
WORTHINGTON C. SMITH, OF ST. ALBANS, VERMONT.

STRAW-CUTTER.

SPECIFICATION forming part of Letters Patent No. 327,365, dated September 29, 1885.

Application filed October 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, AMOS H. WELLINGTON, of Lebanon, in the county of Grafton and State of New Hampshire, have invented certain new and useful Improvements in Straw-Cutters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved feed-cutter. Fig. 2 is a front view with the cutters removed. Fig. 3 is a top view with the feeder-frame removed, and Fig. 4 is a perspective view of the front part of the machine with portions broken away.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to feed-cutters; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the supporting-frame of the machine, and B indicates the trough in which the feed is fed to the cutters. This trough is shallow and inclined toward the middle from the sides, and the forward end of the trough is provided with a strip, C, of metal, preferably steel, the outer edge of which forms a cutting-edge, against which the edges of the cutters may act. Immediately behind this cutting-strip is a slot, D, passing transversely across the feed-trough, and a roller, E, tapering from the ends toward the middle, is journaled to project slightly with its side above the bottom of the trough.

F is a shaft journaled transversely in front of the trough, and provided at one end with a fly-wheel, G, and a pulley, H, or similar means for conveying rotary motion to the shaft, and this shaft is provided with two wheels or disks, I I, near its ends, immediately inside the bearings J in the frame, in which the shaft is journaled. Two (more or less) cutter-blades or knives, K, are secured

at their ends to the rims of these disks, extending transversely across the forward end of the trough as the disks are revolved with the shaft, and the cutting-edges of the blades bear with a shearing motion against the cutter-strip as the cutter-blades are revolved, commencing the cut at the sides of the trough and finishing it at the middle of the same.

The end of the cutter-shaft is provided with a pinion or cog-wheel, L, which meshes with a cog-wheel, M, which is journaled upon the side of the machine-frame, and provided upon its face with a smaller cog-wheel, N, which meshes with a cog-wheel, O, secured upon the end of a shaft, P, journaled in a frame, Q, which is hinged at its forwardly-pointing ends upon the inner sides of the trough. A roller, R, tapering from its middle toward the ends, and corresponding in taper to the inclines of the parts of the bottom of the trough, and to the taper of the roller journaled in the bottom of the trough, is secured upon this shaft, and is provided at intervals with outwardly-projecting strips S, extending from one end of the roller to the other. This roller serves to feed the hay or straw toward the cutters, and by its form it will feed the said hay or straw in two sheets inclined toward the middle, which will be cut by the shear cut between the bent flat V-shaped cutter-strip and the straight transverse cutter-blades.

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

The combination of the trough having its bottom slightly inclined from the sides toward the middle, a cutting-strip of a flat V shape secured at the forward edge of the trough, a shaft provided with cutter-blades arranged around it in the periphery of a cylinder extending straight across the end of the trough, and provided with a pinion at its end and means for revolving it, a frame hinged at its forward ends in the forward end of the trough upon the sides of the same, and having a roller tapering toward the ends and provided with a number of longitudinal strips

5 journaled transversely in it, receiving motion from the cutter-shaft in the manner shown, and the roller tapering from the ends toward the middle and journaled behind the cutting-strip in the bottom of the trough, projecting slightly above the said bottom, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

AMOS H. WELLINGTON.

Witnesses:

J. E. DEWEY,

GEO. W. BRIGGS.