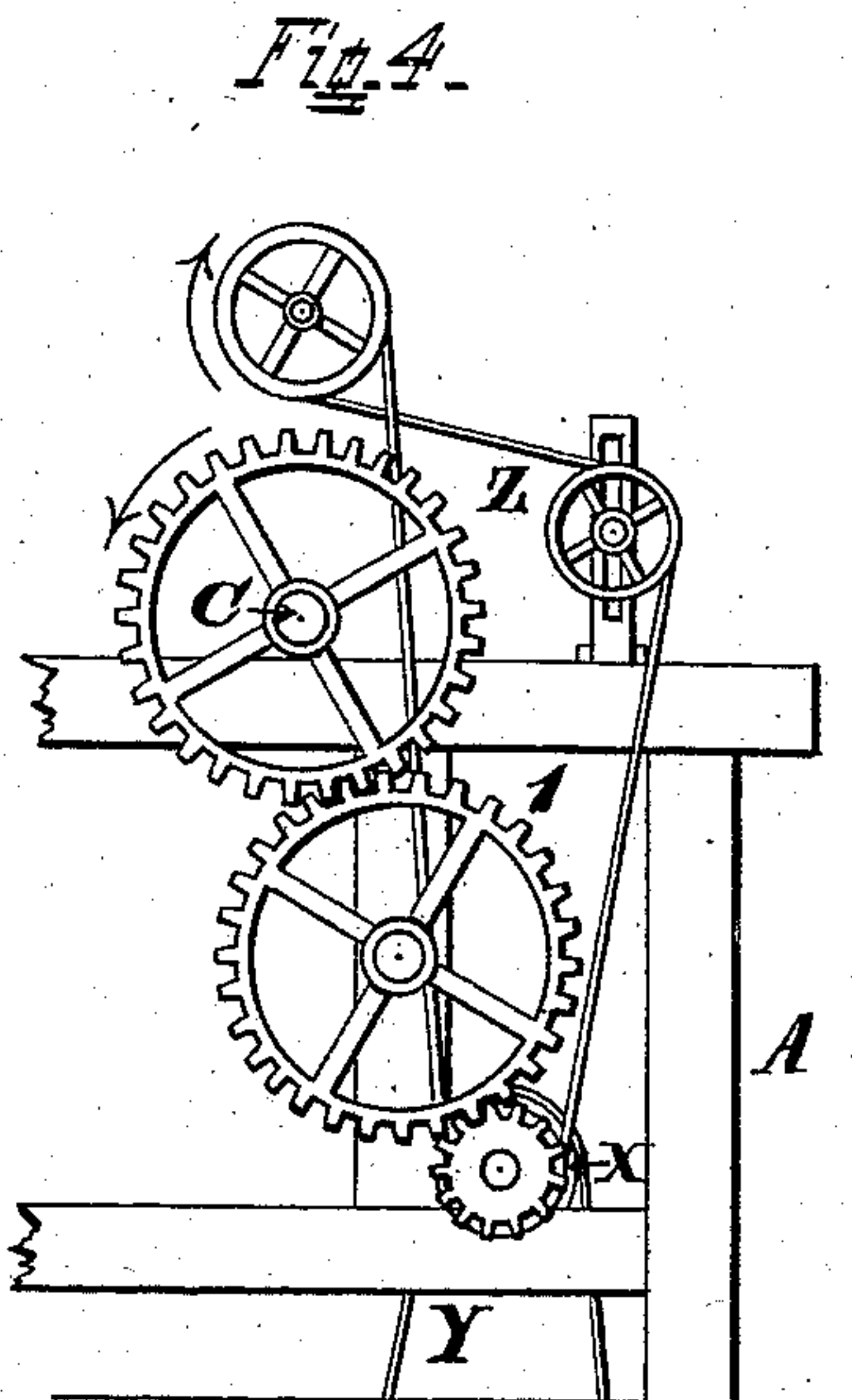
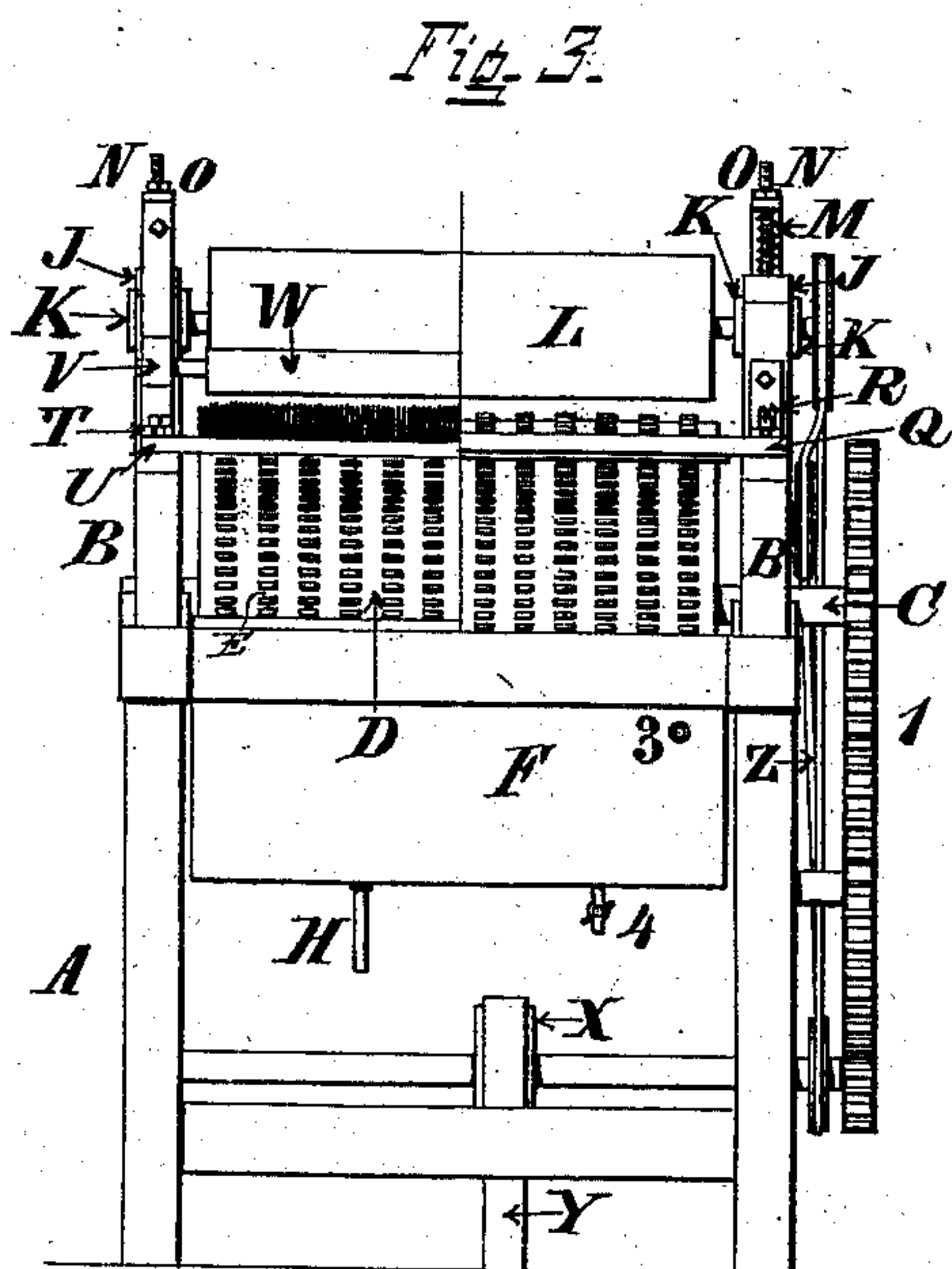
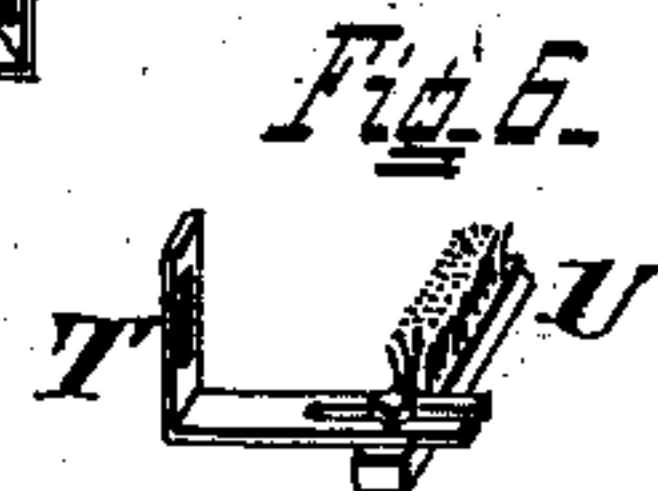
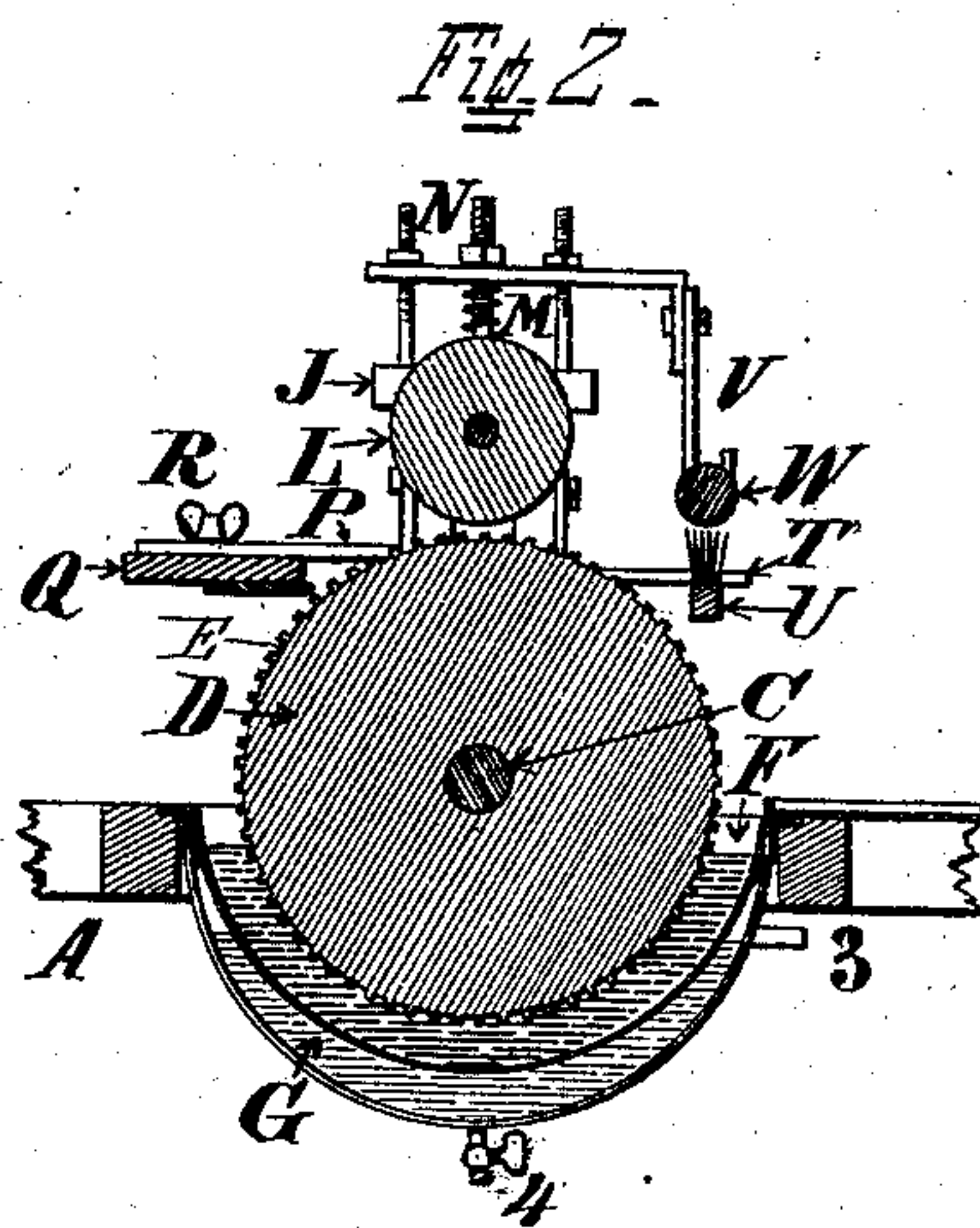
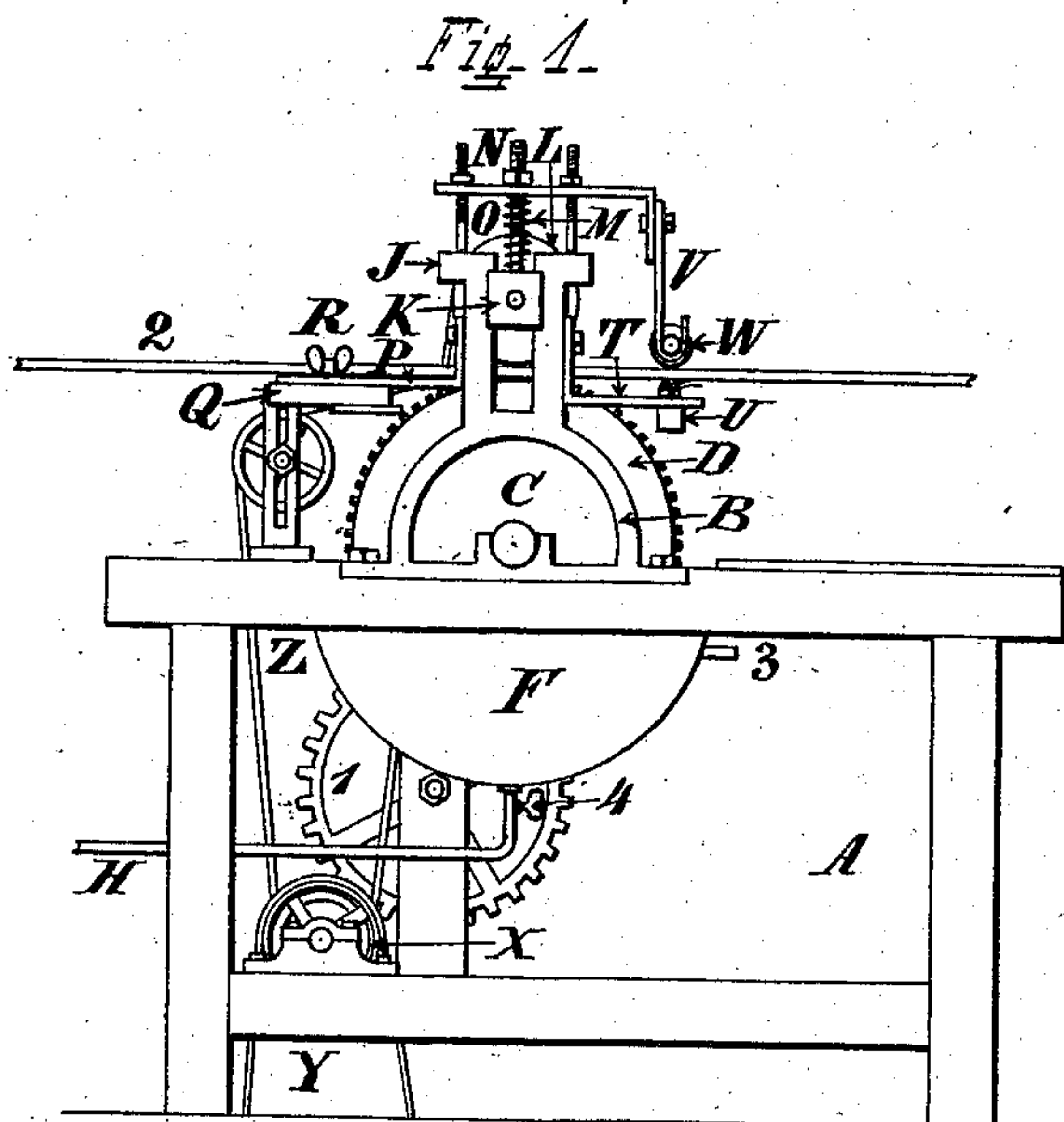


(No Model.)

L. D. NORTON.  
GLUING MACHINE.

No. 290,094.

Patented Dec. 11, 1883.



Attest  
Carl Spengel  
Geo. Wheelock

Inventor  
Levi D. Norton  
by Knight Bros. Att'y's.



# UNITED STATES PATENT OFFICE.

LEVI D. NORTON, OF CINCINNATI, OHIO, ASSIGNOR TO THE E. D. ALBRO COMPANY, OF SAME PLACE.

## GLUING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 290,094, dated December 11, 1883.

Application filed August 24, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, LEVI D. NORTON, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Gluing-Machines, of which the following is a specification.

My invention is particularly designed to facilitate the application of glue to wooden boards for the attachment of veneering, but may be used advantageously in various kinds of cabinet-work, pattern-making, &c., and for the application of paste, paint, or other viscid or semi-liquid substances.

In the accompanying drawings, Figure 1 is a side elevation of a machine embodying my invention. Fig. 2 is a transverse section of gluing-cylinder and its accessories. Fig. 3 is a partly front and partly rear elevation of the machine. Fig. 4 is an elevation of the gearing. Figs. 5 and 6 are detached views of the glue-regulating and glue-distributing devices, respectively.

Supported at convenient height on a frame, A, are the bearings B of a horizontal shaft, C, to which is keyed the transferring drum or cylinder D. The periphery of this cylinder is scored by numerous intersecting grooves or channels, E, for the purpose of enabling said cylinder in rotating to collect and carry up a sufficient quantity of glue. The transfer-cylinder D is partially immersed in a fount, reservoir, or kettle, F, (preferably of the represented semi-cylindrical shape,) for containing the heated glue solution. The fount F has a jacket, G, which is charged with steam or hot water through a pipe, H.

A slotted standard, J, serves to guide to a vertical path the journal-bearings K of a pressure-roller, L, to which any desired downward stress is imparted by an adjustable spring, M, whose force is controlled by nuts N upon screw-threaded bolts O, which extend upward from the guide.

A bracket, P, upon the standard J, supports a scraper, Q, that is attached to said standard by a thumb-screw, R, which permits the scraper to be adjusted to any desired proximity to the periphery of the transfer-cylinder for efficient removal of superabundant glue.

A vertically-adjustable bracket, T, carries a brush, U, whose bristles, extending upward, as shown in Fig. 1 and the left half of Fig. 3, operate to distribute the glue uniformly over the surface of the work.

Journalled in vertically-adjustable and yielding frame V, so as to be located at a suitable elevation from the brush U, is a second pressure roller, W.

A driving-pulley, X, having suitable connection, Y, with the motive power, is so connected, by gearing I and belting Z, with the cylinder D and the pressure-roller L, respectively, as to rotate these two members at the same peripheral velocity in the direction indicated by the arrows. The fount F is furnished near its top with an overflow, 3, and at bottom with a discharge-faucet, 4.

A piece to be glued being fed in, as shown at 2 in Fig. 1, is carried forward by the joint action of the cylinder D and the pressure-roller L, and, by its contact with the periphery of said cylinder, becomes coated with glue on its under surface, which glue, on the further progress of the stuff through the machine, becomes evenly distributed by the brush U.

The channels E, formed in the periphery of cylinder D, enable it to take up from the fount abundant charges of glue, of which, before contact with the work, all surplusage is removed by the action of the scraper Q.

For some purposes there may be used, instead of the brush G, a distributing device composed of rubber, of sponge, of leather, of felt, or other suitable material, according to the work proposed to be accomplished. A bar may take the place of the roller W.

I claim as new and of my invention—

The combination, in a glue-applying machine, of the jacketed fount or kettle F, the channeled transfer-cylinder D, the pressure-rollers L and W, the scraper Q, and the distributing device U, substantially as set forth.

In testimony of which invention I hereunto set my hand.

LEVI D. NORTON.

Attest:

GEO. H. KNIGHT,  
SAML. S. CARPENTER.