

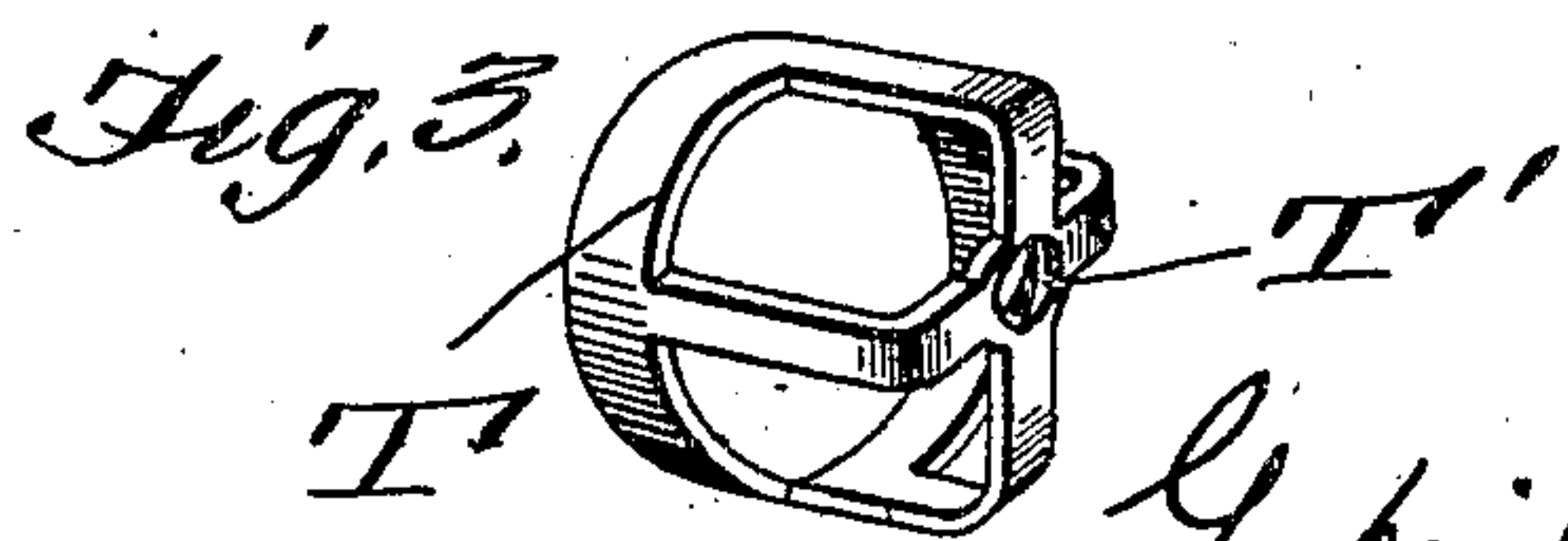
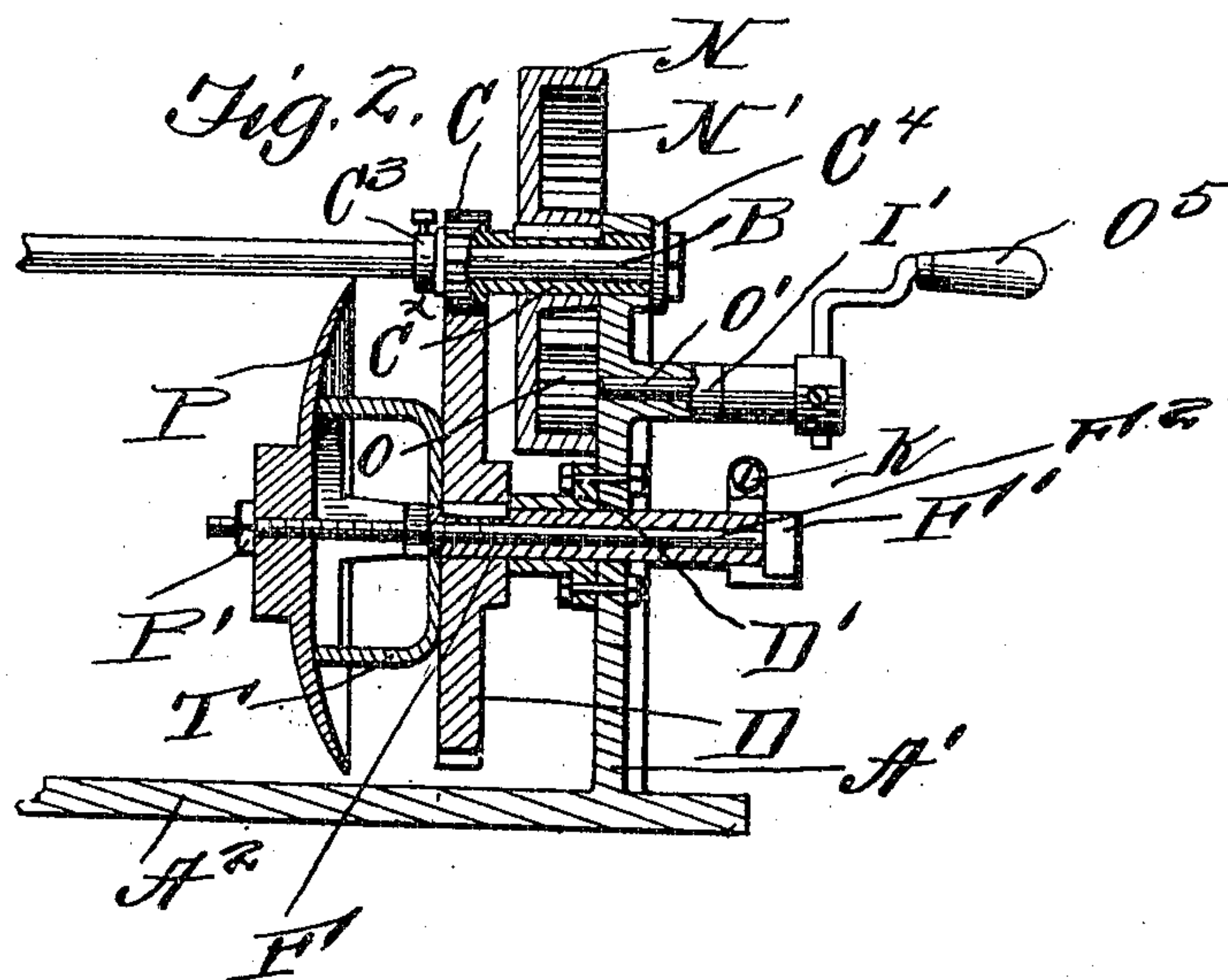
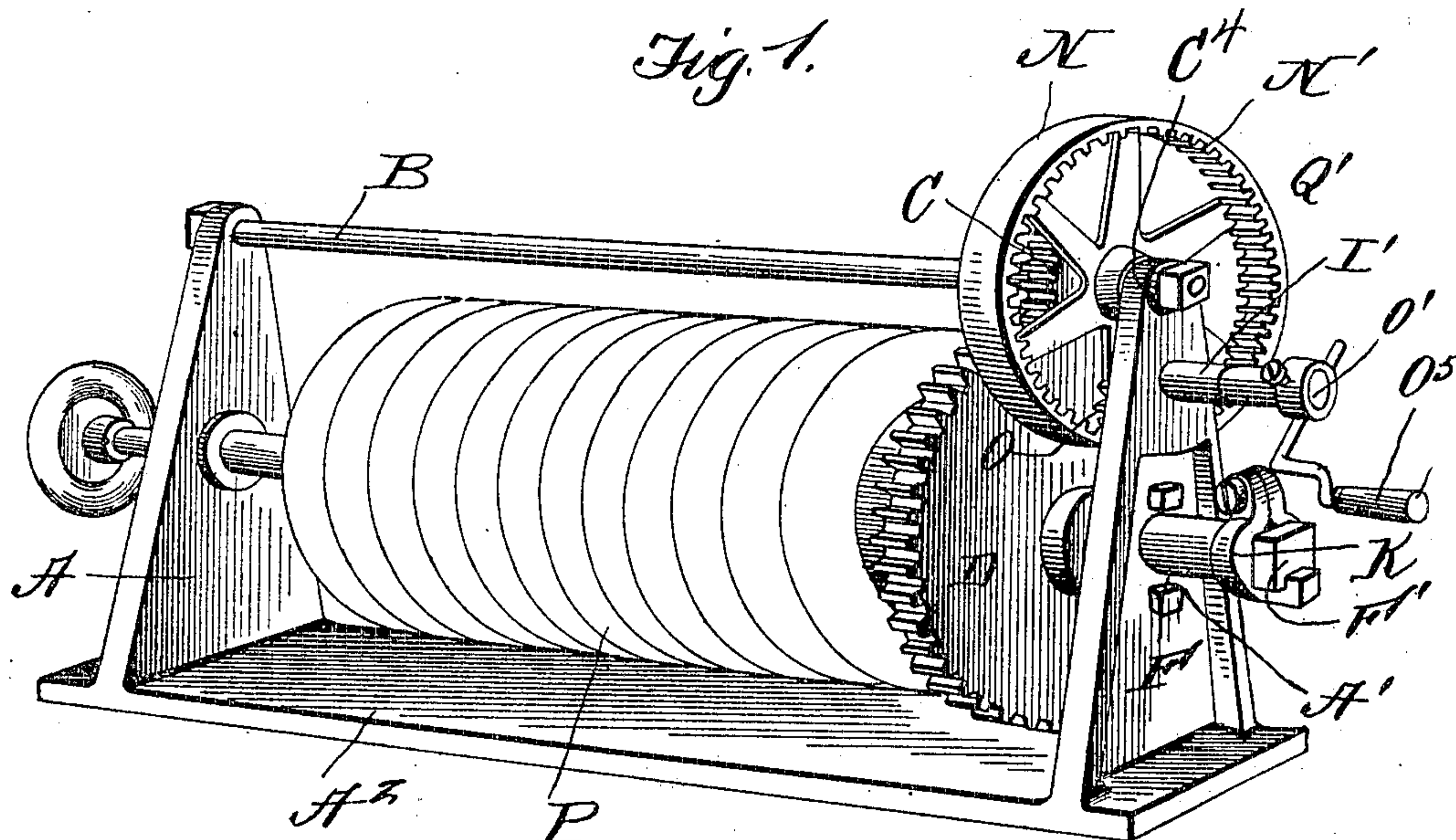
No. 837,215.

PATENTED NOV. 27, 1906.

G. GERARDY.

APPARATUS FOR HOLDING AND ROTATING DISKS TO BE SHARPENED.

APPLICATION FILED DEC. 18, 1905.



Witnesses

R. A. Bowell,
a. l. Hough

Inventor

Gabriel Gerardy

By

Franklin A. Hough

Attorney

UNITED STATES PATENT OFFICE.

GABRIEL GERARDY, OF BENDENA, KANSAS, ASSIGNOR OF ONE-HALF TO
E. Y. ALKIRE, OF BENDENA, KANSAS.

APPARATUS FOR HOLDING AND ROTATING DISKS TO BE SHARPENED.

No. 837,215.

Specification of Letters Patent.

Patented Nov. 27, 1906

Application filed December 18, 1905. Serial No. 292,335.

To all whom it may concern:

Be it known that I, GABRIEL GERARDY, a citizen of the United States, residing at Bendena, in the county of Doniphan and State of Kansas, have invented certain new and useful Improvements in Apparatus for Holding and Rotating Disks to be Sharpened; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in means for rotating disk-carrying shafts, and comprises various details of construction and combinations and arrangements of parts, which will be hereinafter fully described and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing the application of my invention. Fig. 2 is a sectional view showing details of the apparatus with a short shaft carrying but a single disk, and Fig. 3 is a detail view of a yoke employed for holding the disks spaced apart from a gear-wheel upon a shaft carrying the same.

Reference now being had to the details of the drawings by letter, A and A' designate two standards which rise from the base A², and B is a stationary shaft mounted in apertures in said standards and serves to hold the latter from spreading at their tops. Journaled upon said shaft is a pinion-wheel C, having a hub portion C^x, which extends as far as the standard A', and a collar C³ is held to the shaft B upon one side of said pinion, and a second collar C⁴ is held to the end of the shaft which projects from the standard A'.

N is a gear-wheel having teth N' about its inner periphery, and said wheel N is journaled upon the hub portion of the pinion C and is in mesh with a gear-wheel O, fixed to a shaft O', mounted in suitable bearings I', projecting from the standard A'. A suitable handle O⁵ is fixed to the end of the shaft O', affording means whereby the latter may be rotated.

D designates a gear-wheel which is keyed

to a hollow shaft F, which is journaled in a stationary bearing D', which is fastened to the standard A', and said wheel D is in mesh with the pinion-wheel C. Said hollow shaft has a threaded portion upon which the yoke T, having a threaded aperture T', is fitted, and said hollow shaft extends through the bearing D' a sufficient distance to receive the clamping member K, which has an L-shaped portion adapted to receive the head F' of the shaft F², which passes through the hollow shaft and also through the disk P, which is held thereon by means of a nut P'. The head of said shaft F has a notch cut therein to straddle the L-shaped part of the clamping member, and by this arrangement it will be noted that said shaft may be removed without taking off said clamp.

In Fig. 1 of the drawings I have shown a series of disks P mounted upon the shaft F, and in Fig. 2 I have illustrated a single disk P, which is held upon the shaft, said shaft being held in place by means of a nut P', bearing against the hub portion of the disk, while the opposite face of the disk is held spaced apart from the gear-wheel D by means of a yoke T, a detail view of which is shown in Fig. 3 of the drawings and which is provided with an opening T' for the reception of said shaft.

From the foregoing it will be observed that by the provision of the apparatus shown and described means is afforded for causing the disk-carrying shaft to rotate with the hollow hub portion of the gear-wheel, whereby the disk held to the shaft may be caused to rotate therewith.

What I claim is—

1. In an apparatus for rotating disk-carrying shafts, a frame consisting of a base and a standard, a hollow shaft mounted in said standard, a bearing in which said shaft is also mounted, a clamping member secured to said shaft, a disk-carrying shaft mounted within said hollow shaft and having a head engaging a recess in said clamping member with which it is adapted to rotate, and means for rotating said shaft, as set forth.

2. In an apparatus for rotating disk-carrying shafts, a frame consisting of a base and a standard, a hollow shaft mounted in said standard, a bearing in which said shaft is also mounted, a clamping member secured to said shaft, a disk-carrying shaft mounted within said hollow shaft and having a head

engaging a recess in said clamping member with which it is adapted to rotate, a portion of the disk-carrying shaft extending beyond the end of the hollow shaft through which it passes, and threaded, a yoke mounted upon said projecting portion of the shaft, a gear-wheel rotating with the shafts and against which said yoke is arranged to bear, and a driving-gear for engaging the gear-wheel, as set forth.

3. In an apparatus for rotating disk-carrying shafts, a frame consisting of a base with standards, a hollow shaft mounted in one of said standards, a bearing in which said shaft is also mounted, a clamping member secured to said shaft, a disk-carrying shaft mounted within said hollow shaft and having a head engaging a recess in said clamping member

with which it is adapted to rotate, a portion of the disk-carrying shaft extending beyond the end of the hollow shaft through which it passes, and threaded, a yoke mounted upon said projecting portion of the shaft, a gear-wheel rotating with the shafts and against which said yoke is adapted to bear, a bar connecting the standards, a pinion-wheel loosely mounted upon said bar and in mesh with said gear-wheel, and means for rotating said pinion-wheel, as set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

GABRIEL GERARDY.

Witnesses:

W. C. ALBERS,
JOHN FULTON.