

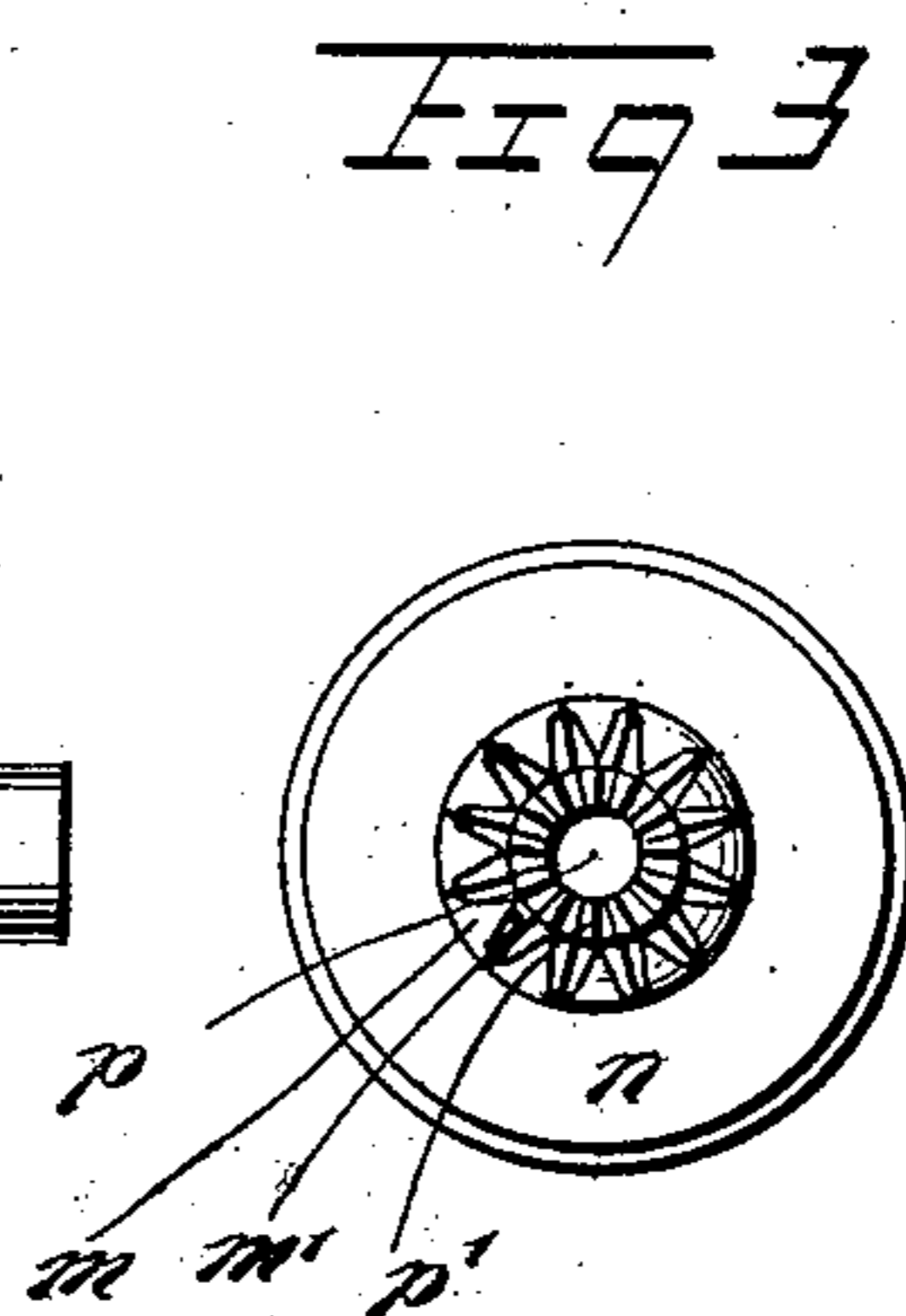
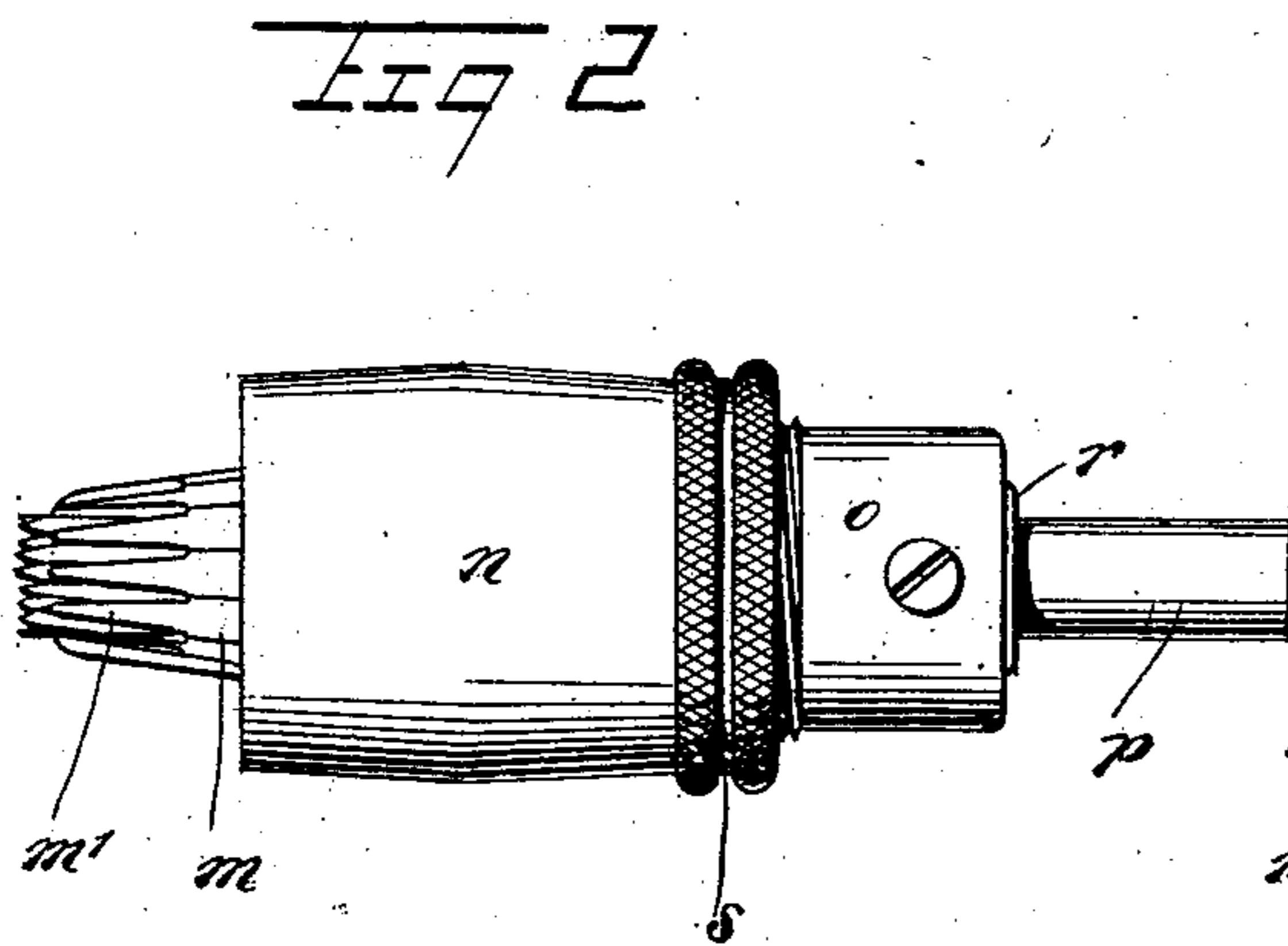
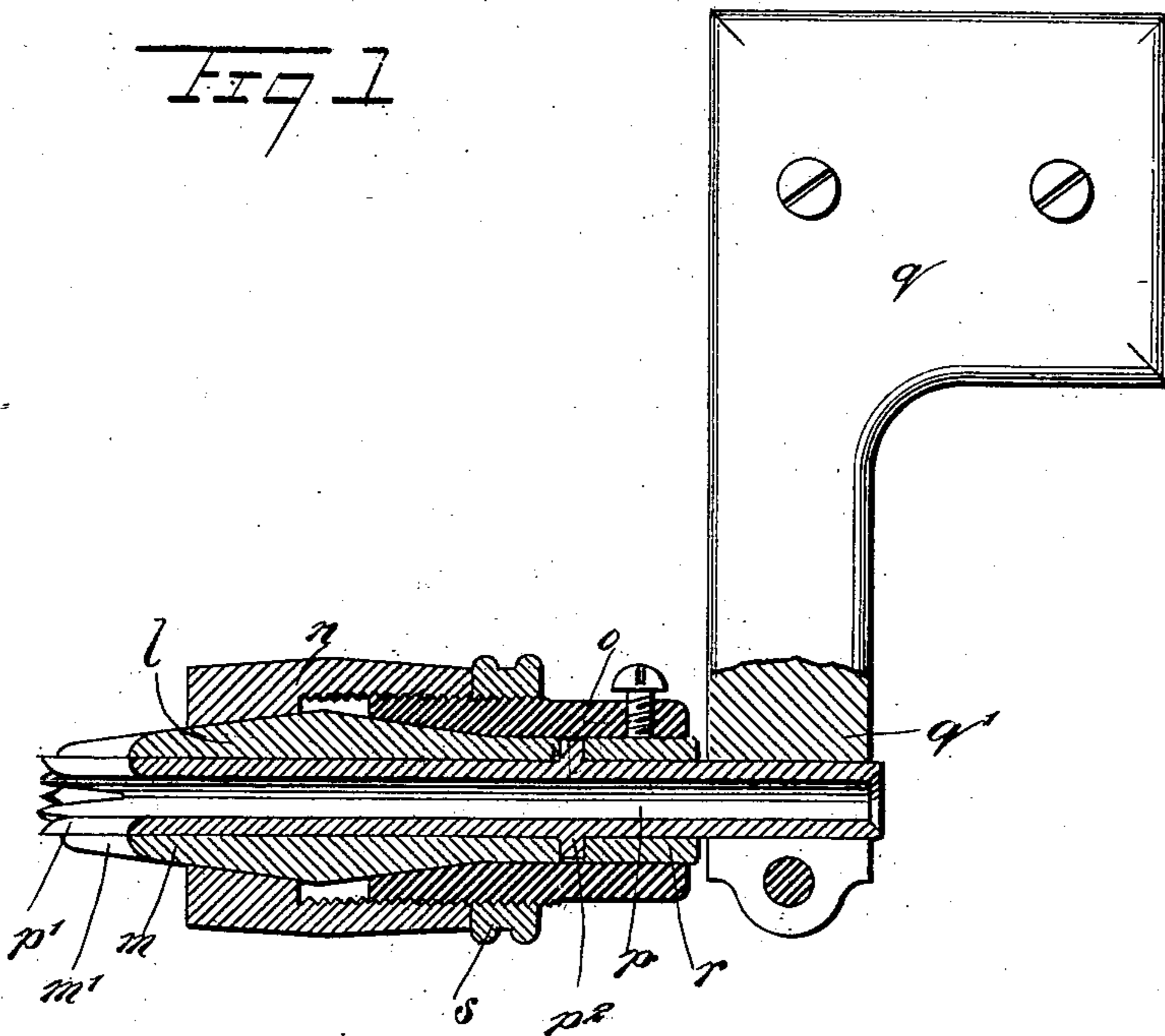
No. 701,653.

Patented June 3, 1902.

R. F. WERK.
CLIPPER.

(Application filed Jan. 24, 1900.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT F. WERK, OF NEW ORLEANS, LOUISIANA.

CLIPPER.

SPECIFICATION forming part of Letters Patent No. 701,653, dated June 3, 1902.

Application filed January 24, 1900. Serial No. 2,619. (No model.)

To all whom it may concern:

Be it known that I, ROBERT F. WERK, a citizen of the United States, and a resident of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and Improved Clipper, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide a clipper for cutting the outstanding fibers, hairs, or filaments from cordage of any sort, which end I attain by providing two knives or sets of knives, which are relatively movable in a concentric circle or circles, the cord being passed through the center of such circle or circles.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional view of the invention. Fig. 2 is a side elevation of the same, and Fig. 3 is a front end elevation thereof.

The tool comprises two tubes l and p , the former being fitted to revolve on the latter. The outer revolving tube is made up of a number of suitably-formed separable bars m , formed with knives m' . These separable bars are held in tubular form by means of two collars n and o , which are threaded into each other and formed with beveled interior walls, respectively, bearing against the oppositely-beveled outer sides of the bars m . Reference to Fig. 1 will show that these bars m , having the oppositely-beveled outer sides, as shown, form a tube of approximately double conical form; and it is clear that the collars n and o when drawn together over the bars will hold them rigidly together, thus constituting the tube referred to. The inner tube p is held firmly in a clamp q' on a bracket q and has knives p' , which work with the knives m' , so as to cut such fibers as are projected between them. The collars n and o , carrying the revoluble outer tube, are held in place by means of a ring r , which is fastened securely within the collar o and which bears revolubly on the tube p and against an annular flange p^2 , formed thereon. The bars m , forming the outer tube, bear against the opposite sides of this rib or flange p^2 , as shown. A driving-pulley s is fastened to the collar o , by which

to turn the same, and consequently the collar n and the bars m , which form the outer tube l . This pulley s is threaded on the collar o , as shown.

The cordage to be clipped is passed through the inner tube p while the outer tube l is being revolved. It will thus be seen that by this operation such fibers as project from the surface of the cordage will be shorn therefrom.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A clipper for cordage, comprising two tubes fitted the one within the other and relatively turnable, each tube having a knife or knives thereon working as described, and one of the tubes being made up of a number of separable bars, with means for holding such bars in tubular form.

2. In a clipper for cordage, the combination with a support, of a tube held rigidly thereby and having a knife or knives thereon, a second tube formed with a number of separable bars, each with a knife thereon, and means for holding such bars rigidly in tubular form to turn around the first-named tube.

3. In a clipper for cordage, the combination with a tube fixedly held and provided with knives, of a second tube mounted on the first tube to revolve thereon, and consisting of a series of separable bars formed with knives, and collars surrounding the said bars and having screw-threaded engagement with each other, substantially as described.

4. In a clipper for cordage, the combination with a support, and a tube having one end secured to the support and provided with knives at its other end, of a second tube mounted to revolve on the first tube and consisting of a series of bars having knives at their ends, said bars having oppositely-beveled outer surfaces, collars surrounding the bars and having a screw-threaded engagement with each other, and means for locking the collars in place, substantially as described.

5. In a clipper for cordage, the combination with a support, a tube having one end secured to the support and provided with knives at its other end and with an annular

external flange between its ends, of a second
tube mounted on the first tube to revolve
thereon and consisting of a series of bars
having knives at their ends, said bars hav-
5 ing oppositely-beveled outer surfaces, and
having their inner ends abutting against the
flange of the first tube, collars surrounding
the bars and having a screw-threaded engage-
ment with each other, a ring surrounding the
10 first tube between its flange and the support,

and a screw securing one of the collars to the
ring, substantially as described.

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

ROBERT F. WERK.

Witnesses:

A. C. LANDRY,
CHAS. W. BROWN.