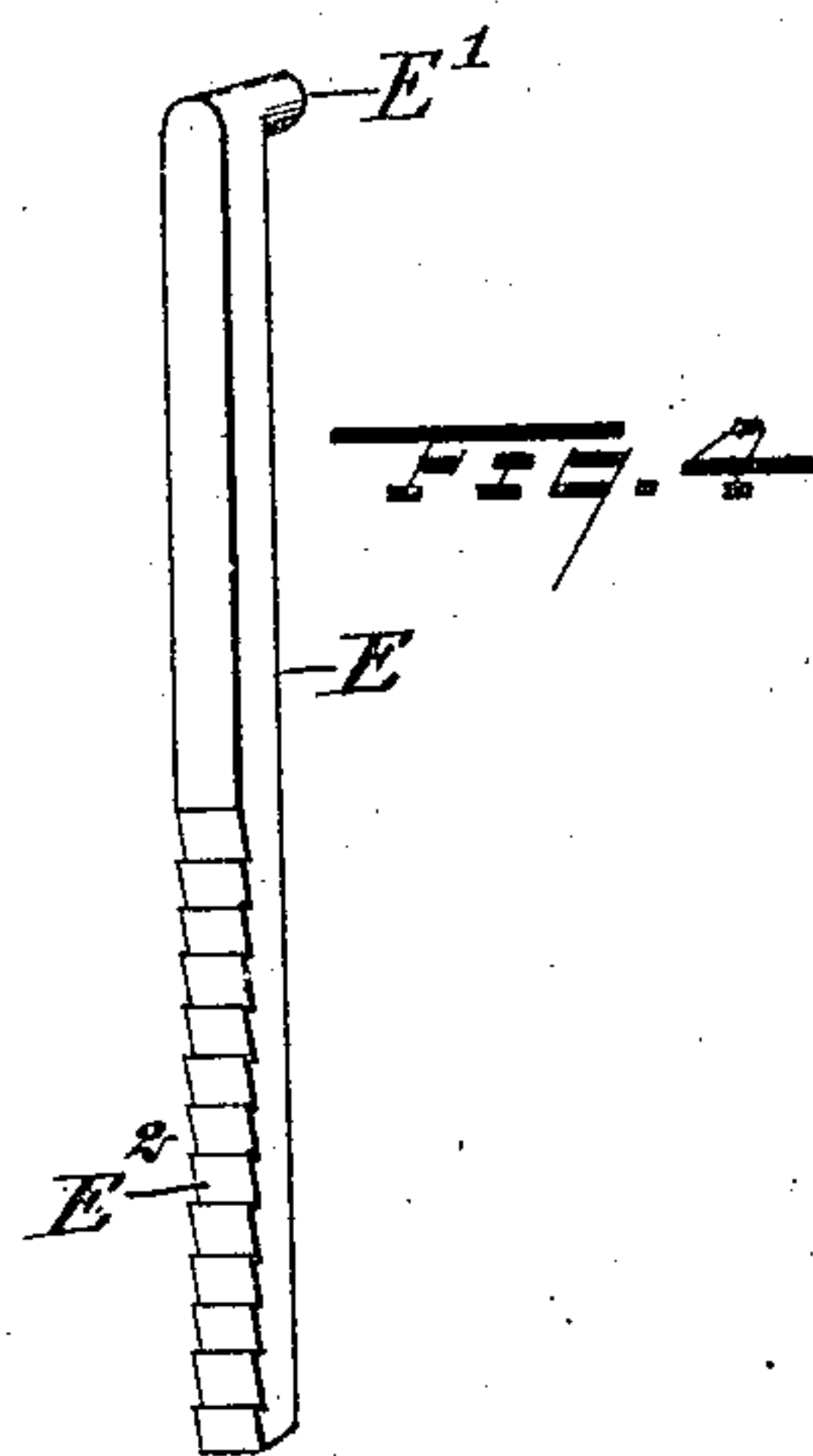
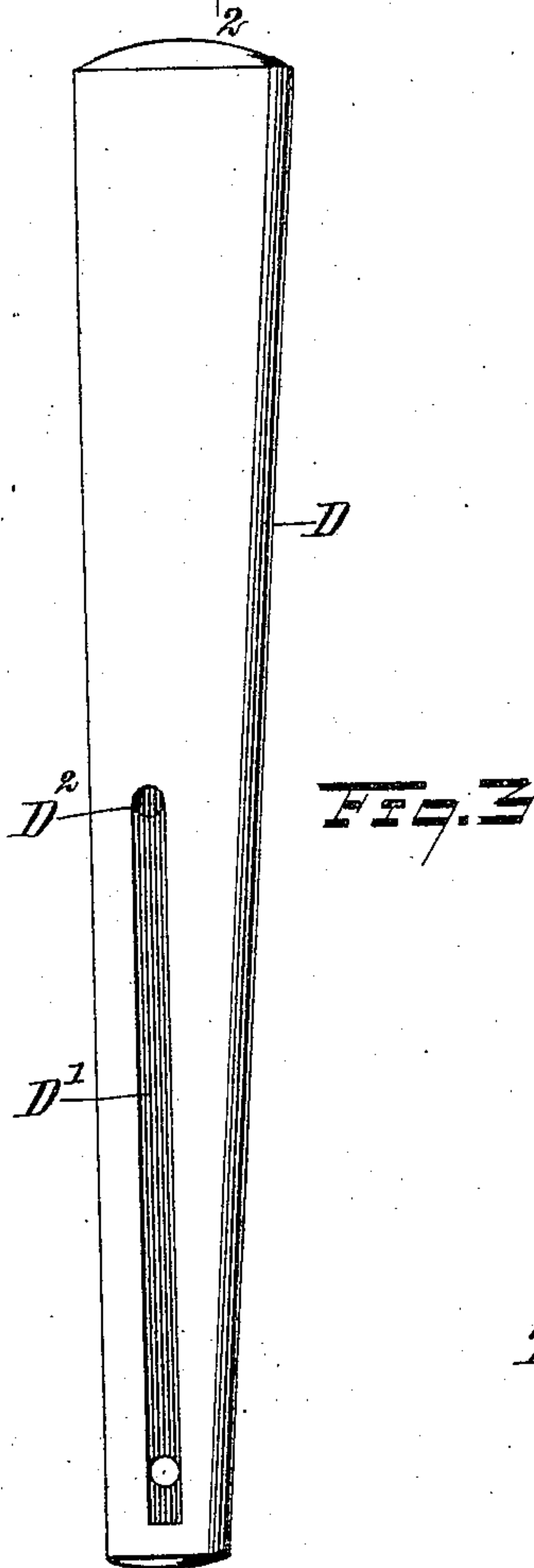
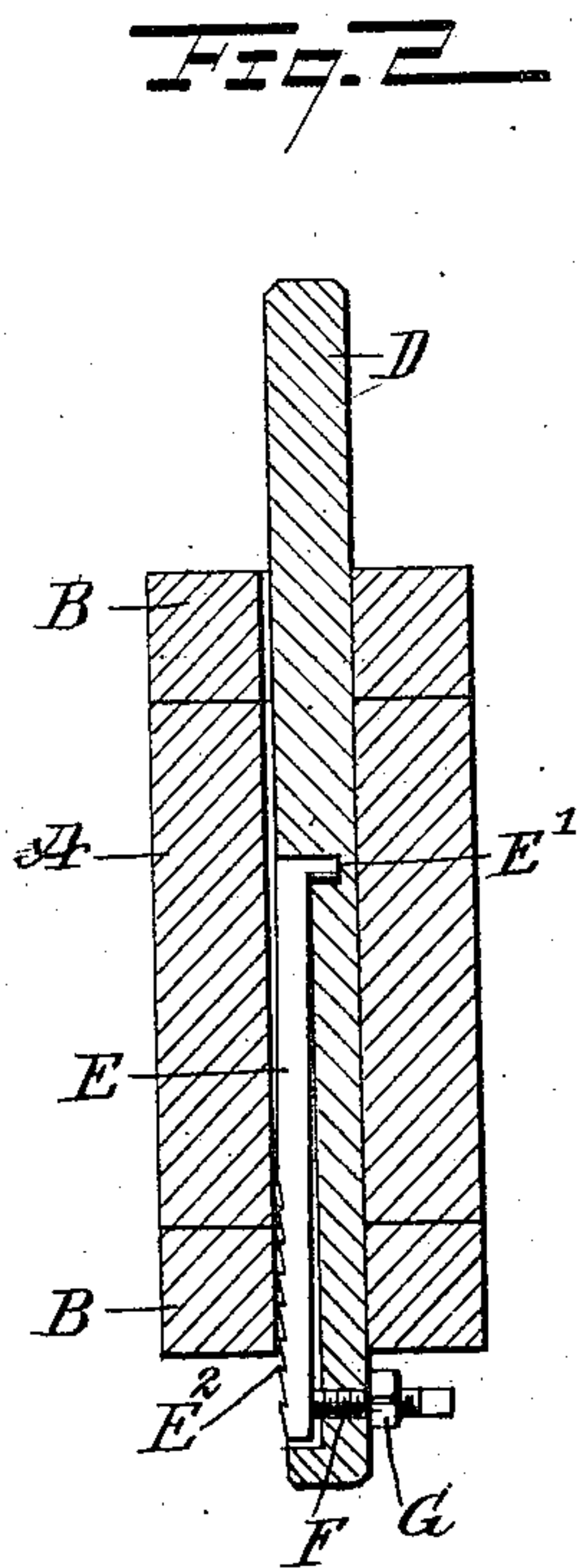
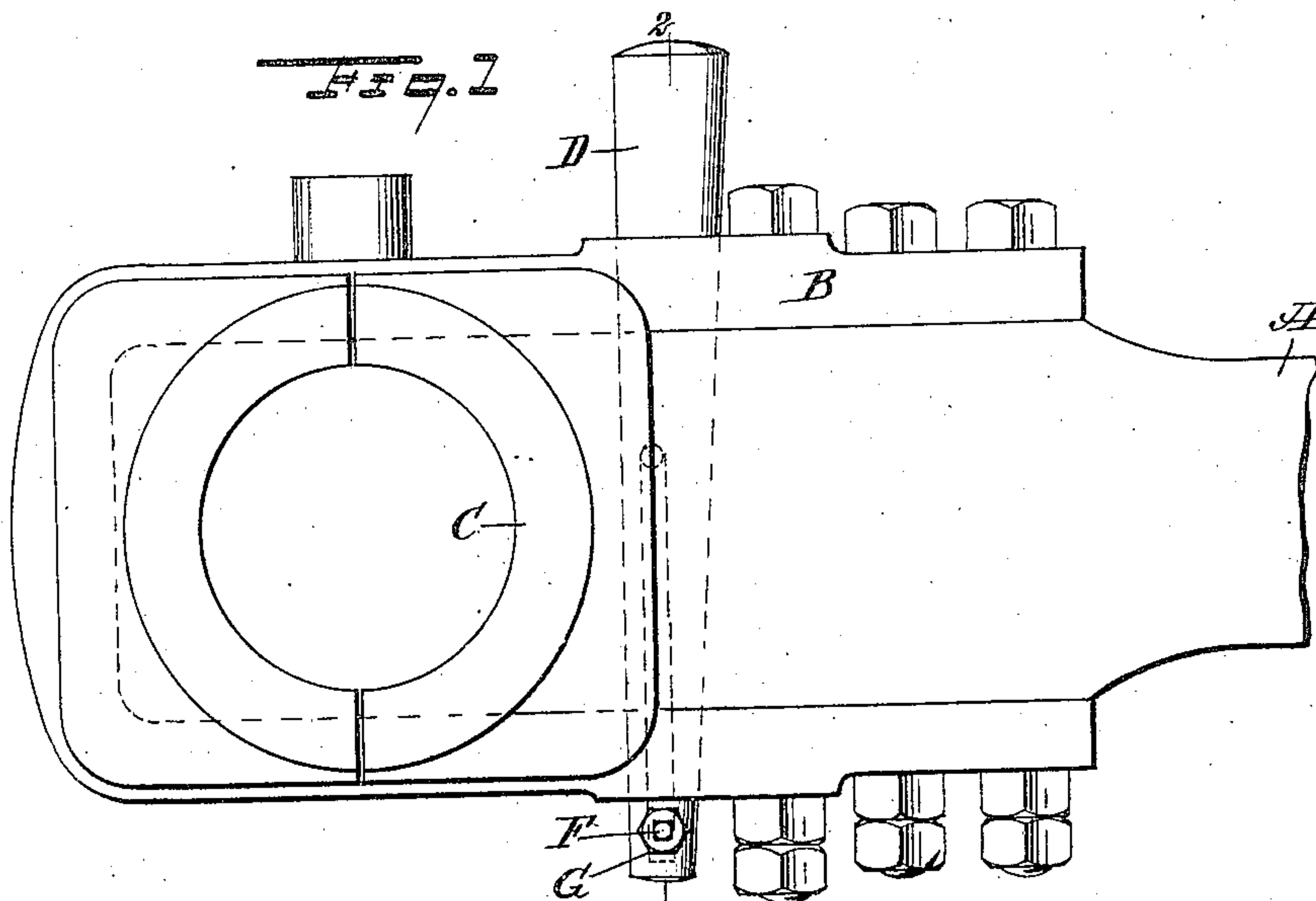


No. 844,170.

PATENTED FEB. 12, 1907.

T. F. McANDREWS.
COTTER.

APPLICATION FILED MAY 19, 1906.



WITNESSES:

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THOMAS F. McANDREWS, OF COHOES, NEW YORK, ASSIGNOR OF ONE-HALF
TO JOHN E. BLEIBTREY, OF WATERFORD, NEW YORK.

COTTER.

No. 844,170.

Specification of Letters Patent.

Patented Feb. 12, 1907.

Application filed May 19, 1906. Serial No. 317,822.

To all whom it may concern:

Be it known that I, THOMAS F. McANDREWS, a citizen of the United States, and a resident of Cohoes, in the county of Albany and State of New York, have invented a new and Improved Cotter, of which the following is a full, clear, and exact description.

The invention relates to cotters used on motion-rods using a taper key or gib; and its object is to provide a new and improved cotter arranged to eliminate the possibility of losing the rod-key when the gib is set out properly against the rod.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in 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 side elevation of the improvement as applied to the taper key of a pitman. Fig. 2 is a transverse section of the same on the line 2 2 of Fig. 1. Fig. 3 is an enlarged side elevation of the key, and Fig. 4 is a perspective view of the gib.

The pitman or like motion-rod A (illustrated in Figs. 1 and 2) is provided with the usual strap B and a sectional box C, adjusted in the usual manner by the taper key D. In one side of this taper key D is formed a recess D' for the reception of a gib E, provided at its upper end with a pin E', engaging a hole D² at the upper end of the recess D', to hold the gib E in position within the recess D'. The lower or outer end of the gib E is adapted to be engaged at its back by a set-screw F, screwing transversely in the outer small end of the taper key D, so as to cause the gib E to bear against the wall of the opening formed in the motion-rod A and through which opening passes the taper key D. Thus by screwing up the set-screw F the gib E is pressed with sufficient force in contact with the wall of the key-opening to securely hold the key D in place and thus prevent any possibility of losing the key. In order to insure a very firm contact of the gib E with the wall of the key-opening, the outer face of the gib E may be toothed or roughened, as at E², to bite into or firmly grip the wall of the key-opening.

It is understood that the recess D' corresponds approximately to the shape of the gib E, so that the key, with the gib therein, can be readily driven in position on the motion-rod to properly adjust the corresponding section of the box C, and after the key is driven home the set-screw F is placed in position and screwed up to cause the gib to bear against the wall of the key-opening, as previously explained. When the set-screw F has been screwed up to the desired position, it is locked in place by a suitable jam-nut G.

The device is very simple and durable in construction, is not liable to get easily out of order, and permits of securely fastening the key in place on the motion-rod.

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

1. A taper key for motion-rods, provided with a longitudinal recess in one side, a gib held in the said recess, and means on the key for adjusting the said gib.

2. A taper key for motion-rods, provided with a recess, a gib held in the said recess and formed at its outer face with teeth, and means for adjusting the said gib.

3. The combination with a motion-rod, of a taper key for the same, a gib held in a recess in the said key and engaging the motion-rod, and means on the said key outside the motion-rod for adjusting the said gib.

4. The combination with a motion-rod, of a taper key for the same, a toothed gib held in a recess in the said key and engaging the motion-rod, and means on the said key outside the motion-rod for adjusting the said gib.

5. The combination with a motion-rod, of a taper key for the same, a gib held in a recess in the said key and having a pin for engaging a hole in the key, the gib also having teeth for engaging the motion-rod, and means on the said key outside the motion-rod for adjusting the said gib.

6. A key for motion-rods provided with a longitudinal recess in one side, a gib held in the said recess, and adjusting means for the said gib extending transversely of the key and engaging the inner face of the gib near one end thereof.

7. A taper key for motion-rods provided with a longitudinal recess in one side having

a hole at one end, a gib held in said recess and provided at one end with a pin engaging the said hole, and a set-screw screwing transversely in the key and adapted to engage the
5 back or inner face of the gib at its other end to adjust the gib.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

THOMAS F. McANDREWS.

Witnesses:

EDWARD FRANCIS McCAUGHIN.

JOHN E. BLEIBTREY.