

No. 612,357.

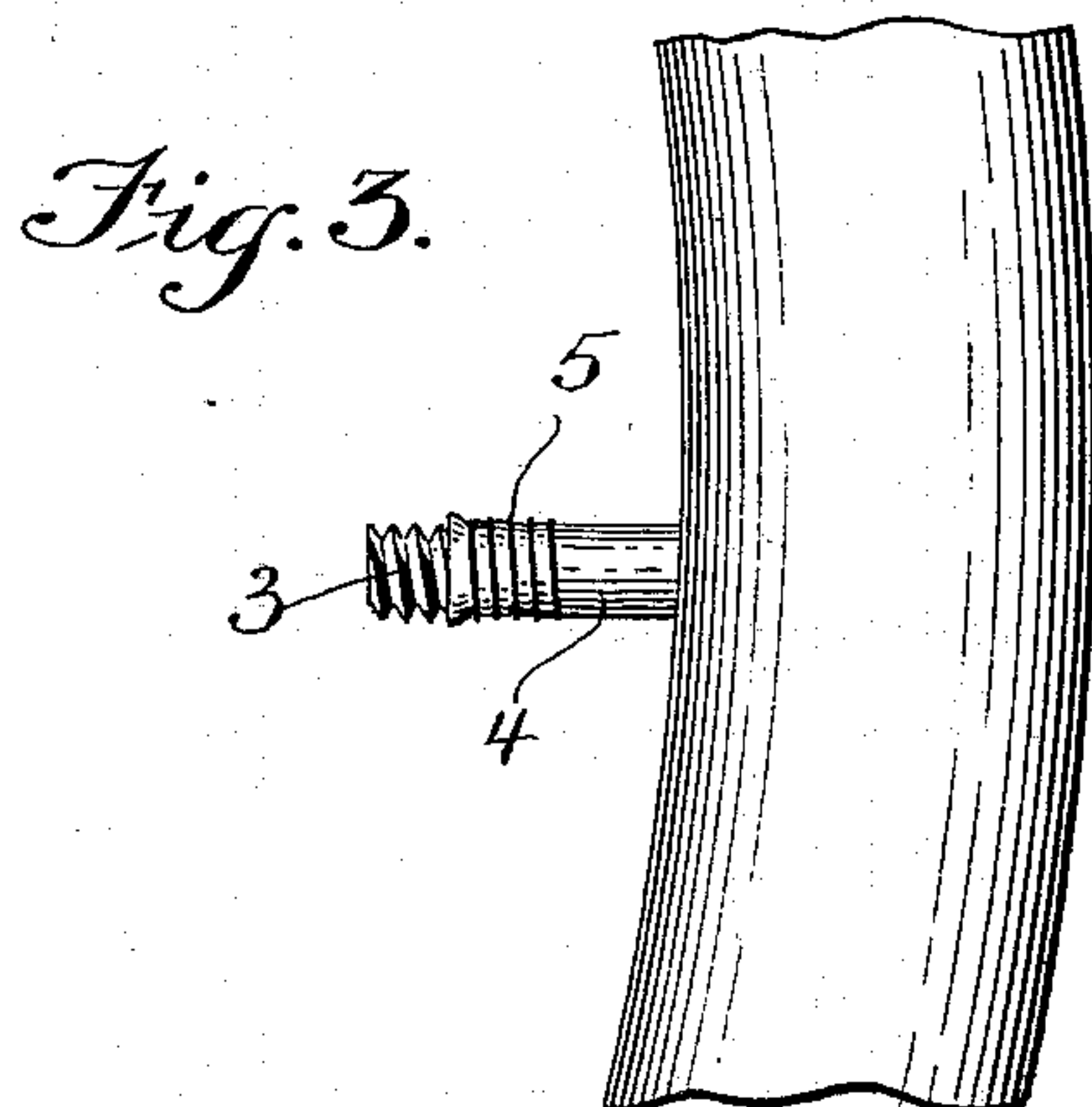
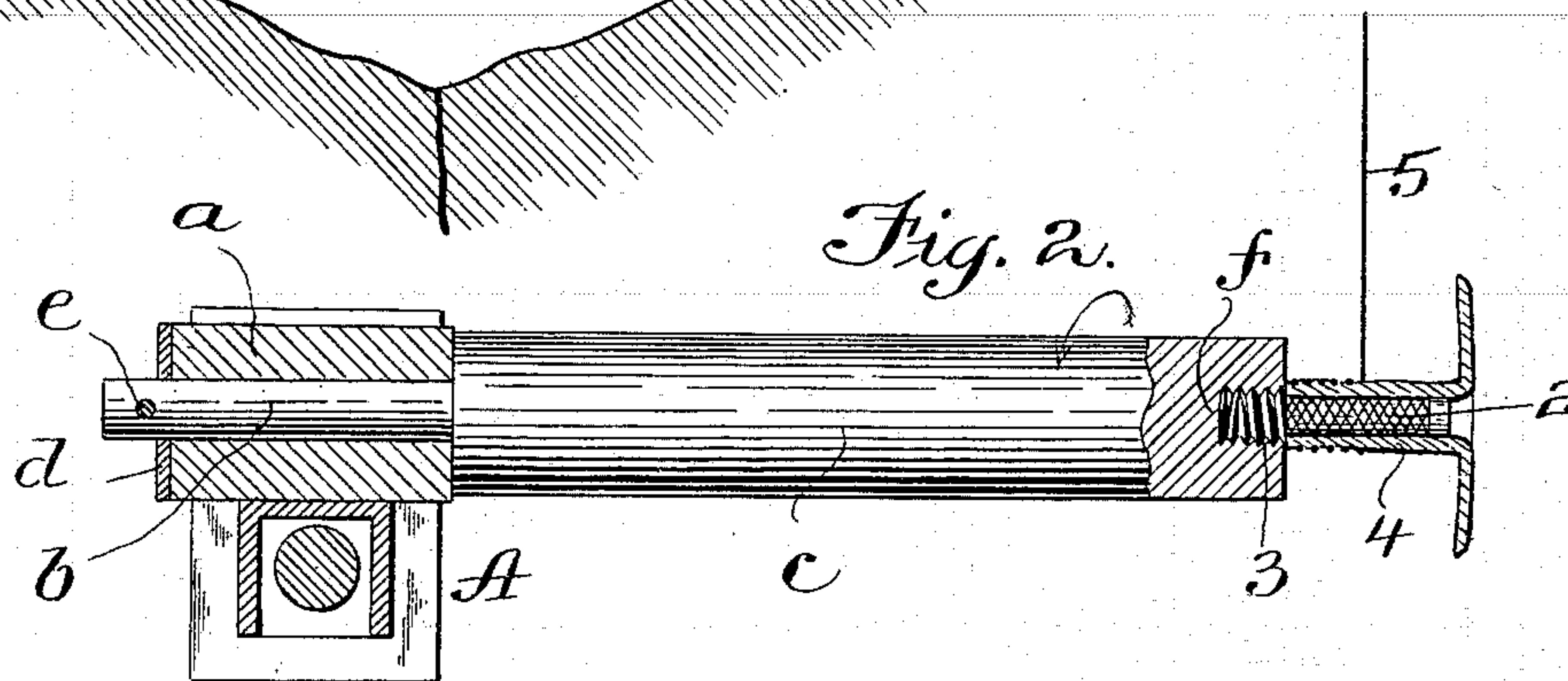
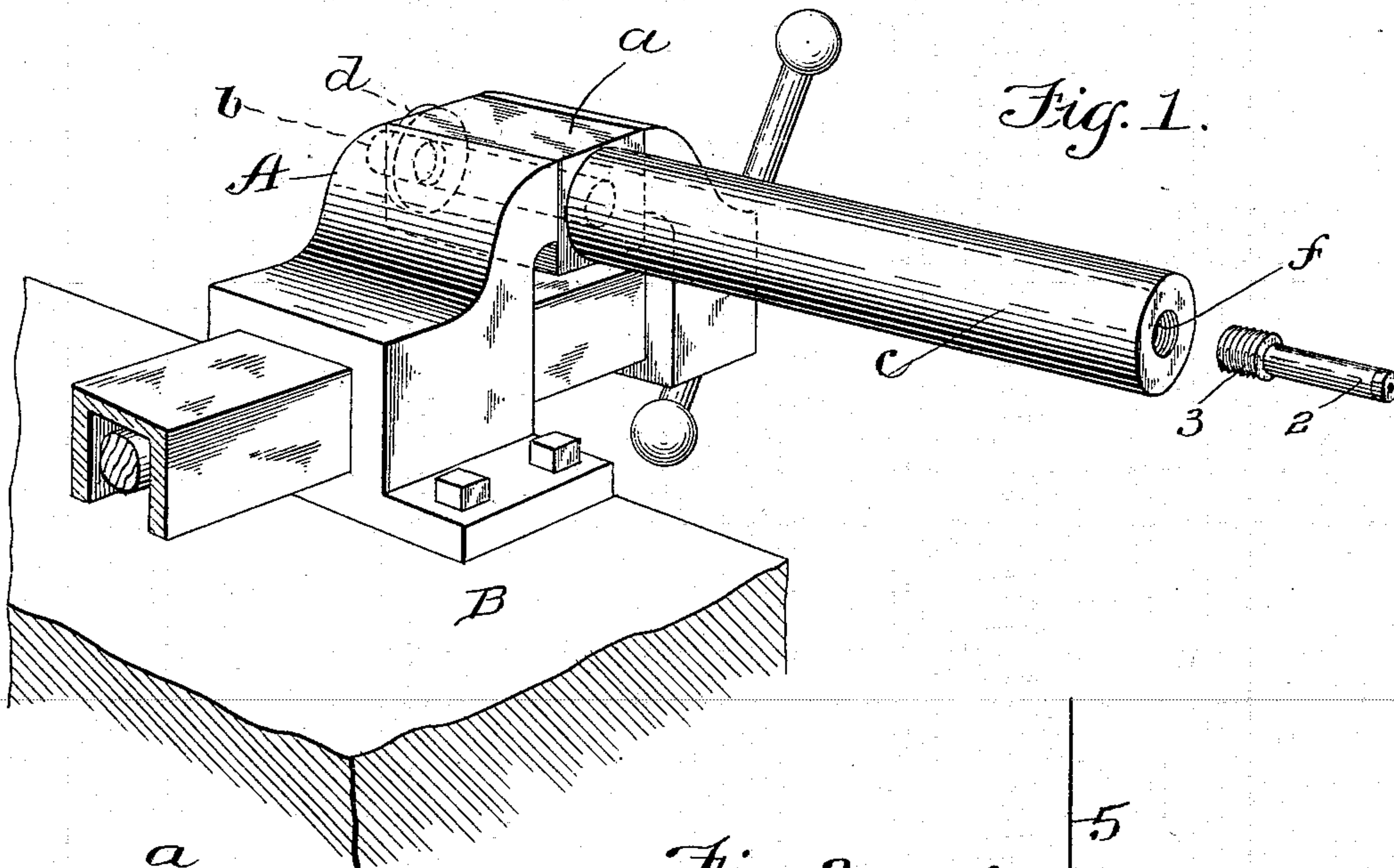
Patented Oct. 11, 1898.

R. A. LEIGH.

APPLIANCE FOR USE IN CONSTRUCTING BICYCLE TIRES.

(Application filed Oct. 4, 1897.)

(No Model.)



Witnesses:

A. D. Hammon.

P. W. Pezzetta.

Inventor:

Richard A. Leigh

By Wright, Brown & Quinby
Attys.

UNITED STATES PATENT OFFICE.

RICHARD A. LEIGH, OF BOSTON, MASSACHUSETTS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE CONSOLIDATED RUBBER WORKS, OF SAME PLACE.

APPLIANCE FOR USE IN CONSTRUCTING BICYCLE-TIRES.

SPECIFICATION forming part of Letters Patent No. 612,357, dated October 11, 1898.

Application filed October 4, 1897. Serial No. 653,930. (No model.)

To all whom it may concern:

Be it known that I, RICHARD A. LEIGH, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Appliances for Use in Constructing Bicycle-Tires, of which the following is a specification.

This invention has relation to bicycle-tires, and has for its object to provide an appliance for assisting in securing a valve-nipple in the flexible valve-tube which extends out from a bicycle-tire. The nipples are generally first inserted in the tubes while the latter are detached, and the wire is wrapped around the tube, tightly pressing it against the nipple and securing it thereto in such way as to prevent the escape of air from the tire. This has heretofore been done by hand and has been a tedious comparatively costly operation because of the length of time it took to wind each valve.

Hence an object of this invention may be stated more particularly to be to provide an appliance adapted to receive a nipple with the valve-tube placed loosely thereon and to rotate them, so as to wind therearound a securing-wire, the latter being fed from a stationarily-mounted reel, all as will be made clear in the accompanying specification and claim.

Reference is to be had to the accompanying drawings, and to the letters and figures marked thereon, forming a part of this specification, the same letters and figures designating the same parts or features, as the case may be, wherever they occur.

Of the drawings, Figure 1 represents a perspective view of one embodiment of my invention. Fig. 2 represents a rear elevation of the same, partially in section, the valve-tube being partially secured upon the nipple. Fig. 3 represents the valve-tube as secured in the tire.

Referring to the drawings, *a* represents a rectangular block, in which is loosely journaled the spindle *b* of a revoluble holder *c*. The end of the holder *c* abuts against the

block *a*, and the spindle projects therethrough and is held against removal by a washer *d* and a pin *e*. The other end of the revoluble holder *c* is formed with a recess *f*, the walls of which are threaded. The block *a* may be suitably clamped or held stationary by a vise (indicated at A) or may be secured in any other suitable way upon a bench B.

The valve-nipple 2, having a threaded end 3, is screwed into the aperture *f*, and the rubber valve-tube 4 is loosely placed upon the woven cylindrical portion of the nipple. Then a wire 5 is held against the end of the valve-tube, and the holder *c* is rotated by the hand or by a belt to wind the wire tightly around the valve-tube and clamp it securely against the nipple, as shown in Fig. 3, after which the wire 5 is cut and the end is secured in any other suitable way.

By employing a device constructed in accordance with the foregoing the reel for the wire may be suitably journaled in proximity to the holder and an operator may secure the valve-tube and the nipple together with great rapidity.

Having thus explained the nature of the invention and described a way of constructing the same, although without attempting to set forth all of the forms in which it may be made or all of the modes of its use, I declare that what I claim is—

An appliance of the character described, comprising a rotatable holder having a threaded socket at one end and a reduced spindle at the other end, and a block in which said spindle is loosely secured, said block being adapted to be secured in a vise, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 14th day of July, A. D. 1897.

RICHARD A. LEIGH.

Witnesses:

A. D. HARRISON,
P. W. PEZZETTI.