

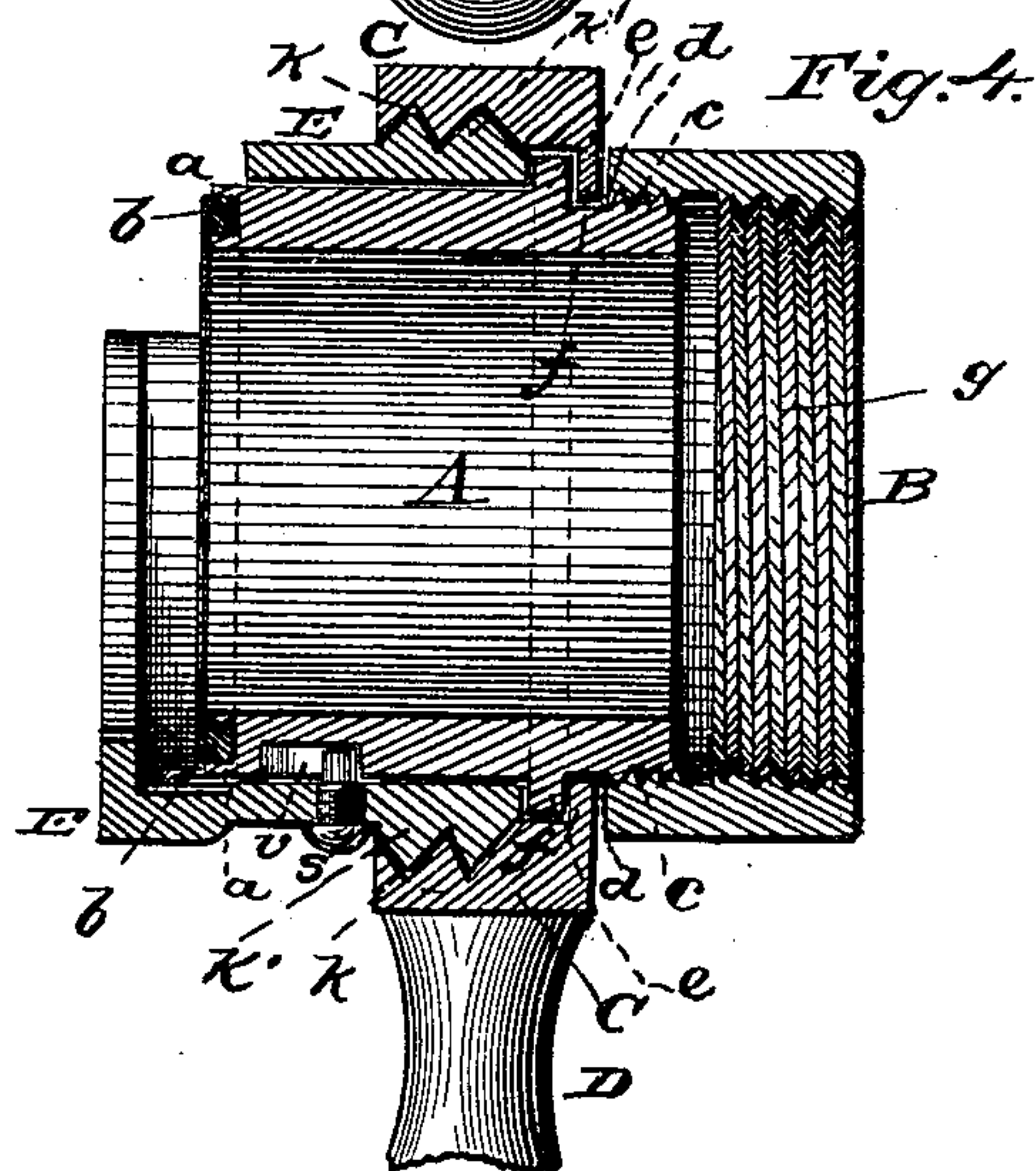
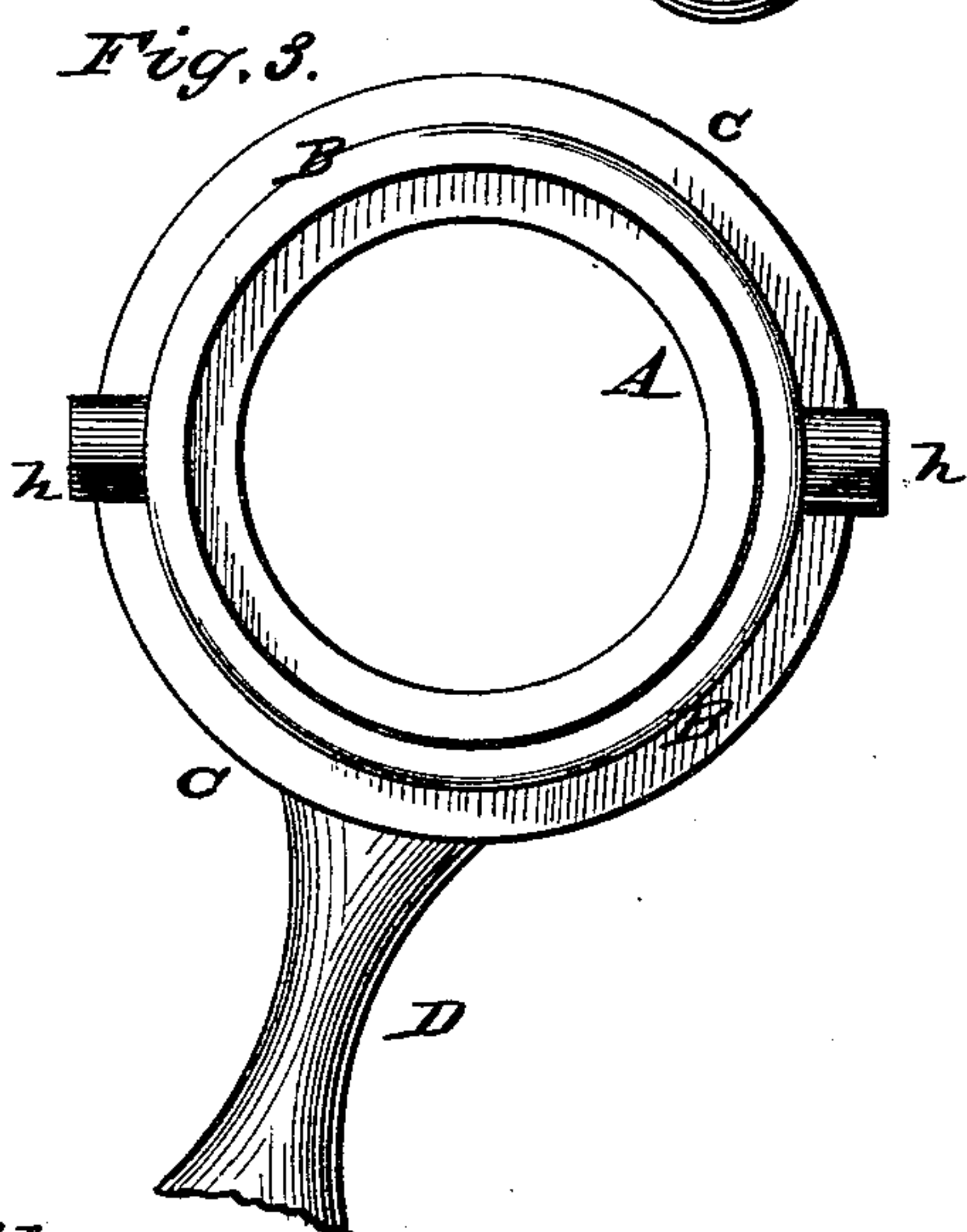
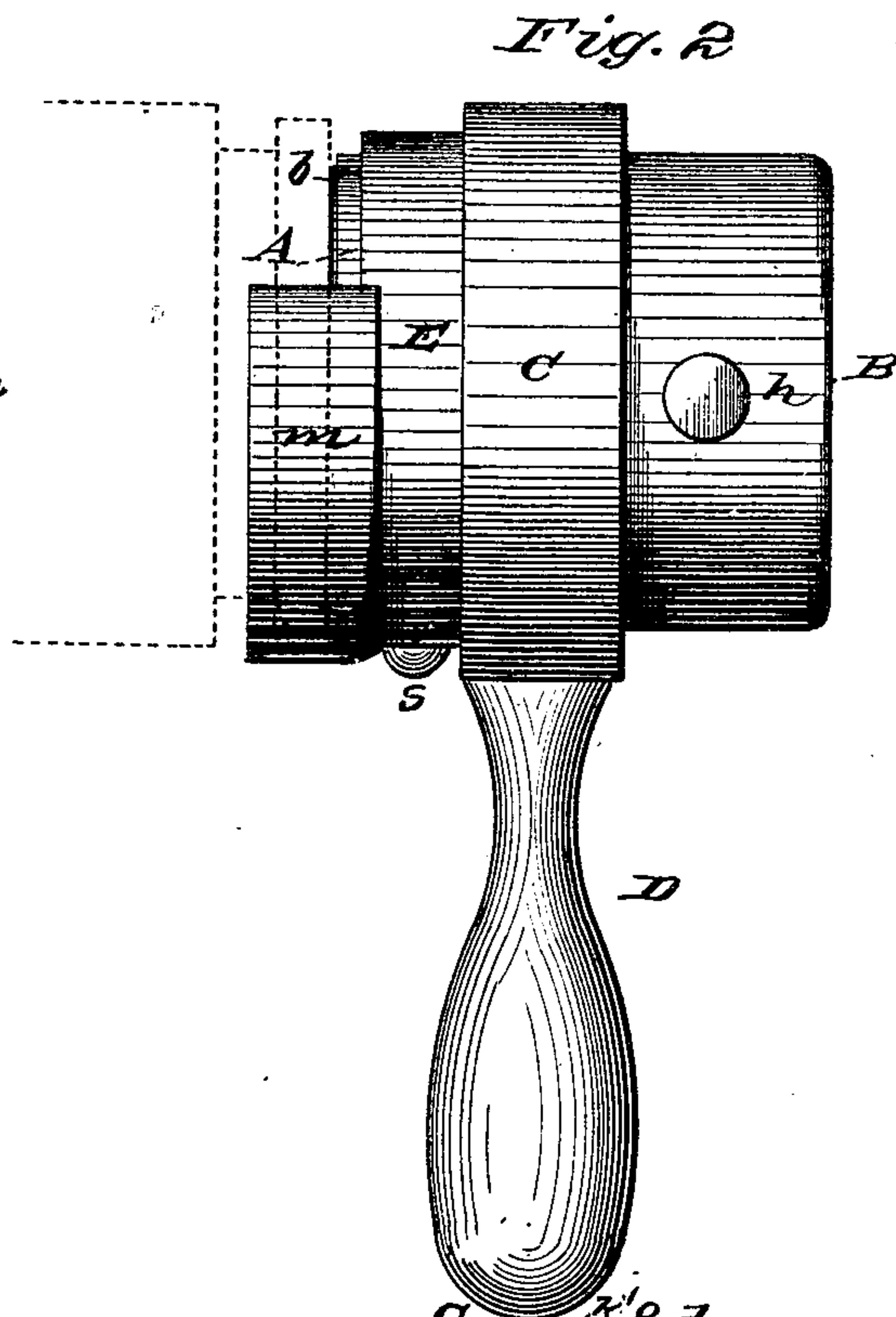
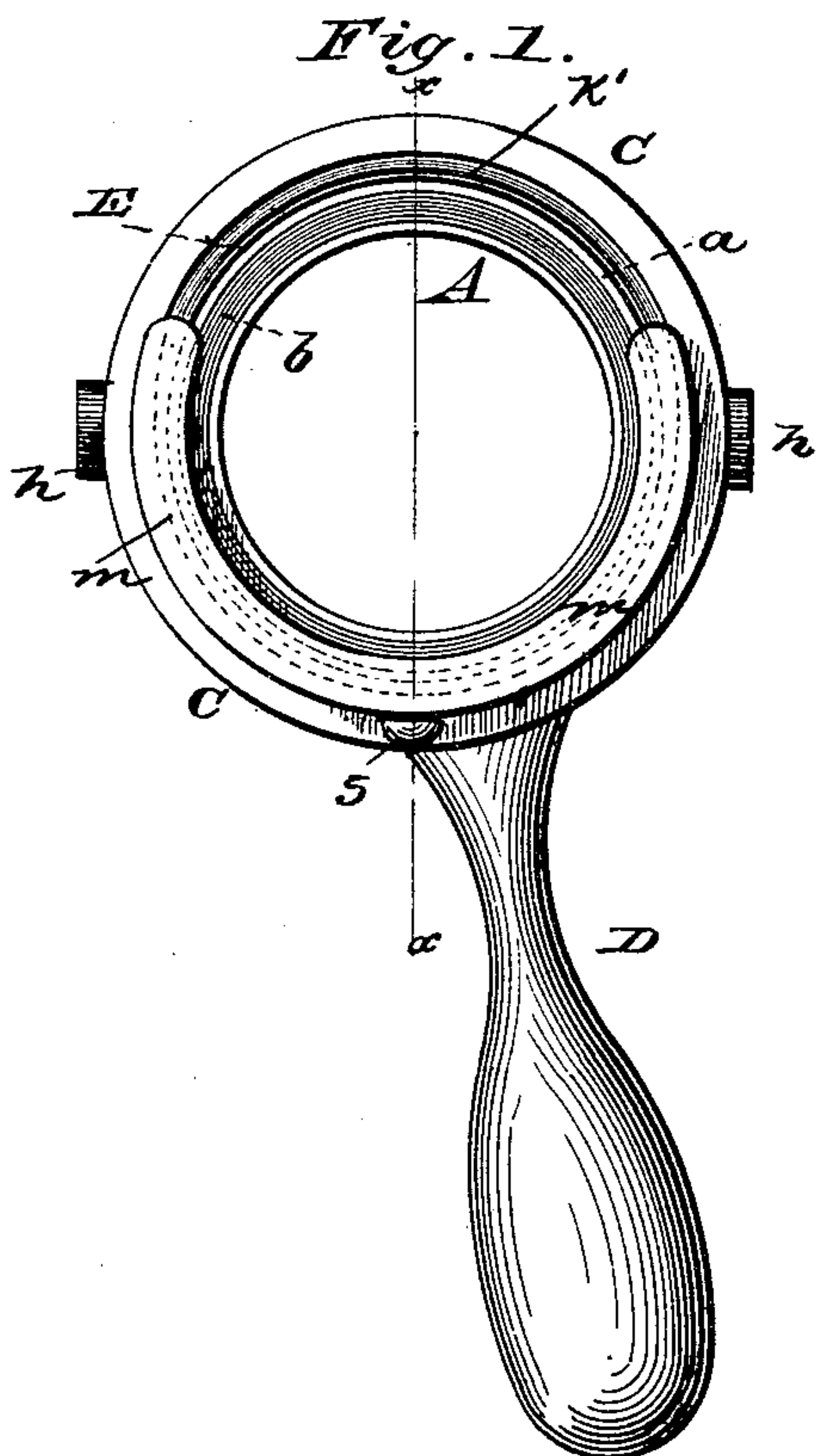
(No Model.)

J. MEYRICK, Jr. & W. MELCHER.

HOSE COUPLING.

No. 266,862.

Patented Oct. 31, 1882.



Witnesses:
Philip Lemasi.
Amelia S. Keyser.

Inventors:
Joseph Meyrick Jr.
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UNITED STATES PATENT OFFICE.

JOSEPH MEYRICK, JR., AND WILLIAM MELCHER, OF LOUISVILLE, KENTUCKY.

HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 266,862, dated October 31, 1882.

Application filed July 22, 1882. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH MEYRICK, Jr., and WILLIAM MELCHER, citizens of the United States, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and valuable Improvement in Hose-Couplings; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 is an end view of our invention. Fig. 2 is a side view with the hose-head connection shown in dotted lines. Fig. 3 is also an end view, and Fig. 4 is a vertical sectional view on the line *x x* in Fig. 1.

This invention has relation to coupling devices for attaching hose to fire-plugs, steam fire-engines, &c.; and the invention consists in the construction and novel arrangement of the internally-threaded vibratory handle-ring having an internal bearing-flange, an interior cylinder having edge-packing, and an external collar-bearing for the handle-ring, a double-threaded base-coupling screwed to the interior cylinder, and an outer reciprocating coupling-annulus having an arc-shaped socket for the hose-head, a large exterior thread for engagement with the handle-ring, and a guide-stud engaging a slot of the interior cylinder, all as hereinafter set forth.

In the accompanying drawings, the letter A designates an interior cylinder having one of its circular ends recessed, as at *a*, to receive a packing-ring, *b*, of leather, rubber, or other material suitable for the purpose. Around the other end of this cylinder is formed a screw-thread, *c*, and next to said screw-thread is a circular bearing, *d*, bounded by a collar-bearing, *e*, which extends outward from the outer face of the cylinder.

B represents the base coupling-ring, which is threaded internally at both ends. By means of one of these threads this coupling-ring is connected to the screw-thread C of the interior cylinder. The other thread, *g*, serves to enable the coupling to be connected to the threaded spout of a fire-plug or fire-engine. On the outside of this coupling-ring are the wrench-studs *h h*.

C indicates the handle-ring, which is formed with an interior thread, *k*, of large size, and with an interior circular flange, *f*, designed to engage the bearing *d* of the interior cylinder between the inner end of the base-coupling B and the collar-bearing *e* of said cylinder. D represents the handle of the handle-ring.

E is the outer reciprocating coupling-ring, having around a portion of its outer end an arc-shaped socket, *m*, with which the flange of the hose-head is engaged when the coupling is in use. Around the other end of this ring is formed a large thread, *k'*, which is designed to engage the thread *k* of the handle-ring. Through this coupling-ring E extends a removable screw-stud, *s*, the inner end of which engages a straight slotway or groove, *v*, in the outer wall of the interior cylinder, which is designed to fit neatly within the ring E, but so as to allow the latter to move thereon.

In applying this device, the base coupling-ring is screwed to the threaded spout of the fire-plug or fire-engine, or other water connection, and the hose-head is connected by its flange with the socket of the outer ring. Then the handle-ring is turned, forcing the interior cylinder outward until its packed end is in close and firm contact with the flange of the hose-head, thus forming a tight joint.

Having described this invention, what we claim, and desire to secure by Letters Patent, is—

A hose-coupling consisting of an internally flanged and threaded vibratory handle-ring, an interior end-packed cylinder having an external collar-bearing, a double-threaded base-coupling screwed to the interior cylinder, and an outer reciprocating coupling-ring having an arc-shaped socket for the hose-head, a large exterior thread engaging the handle-ring, and a guide-stud engaging a slotway or groove of the interior cylinder, substantially as specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

JOSEPH MEYRICK, JR.
WILLIAM MELCHER.

Witnesses:

JOHN FOWLER,
JAMES T. A. BAKER.