

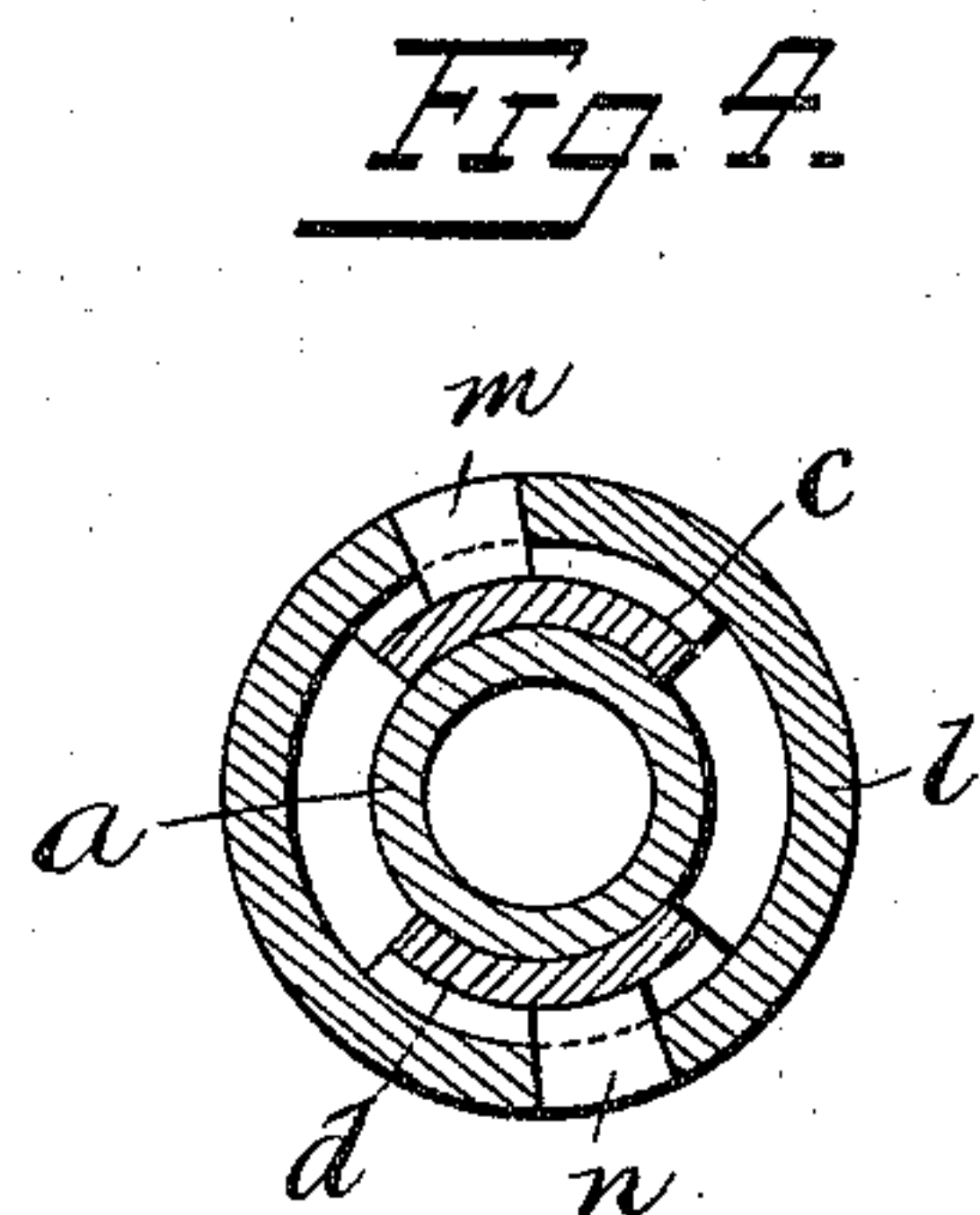
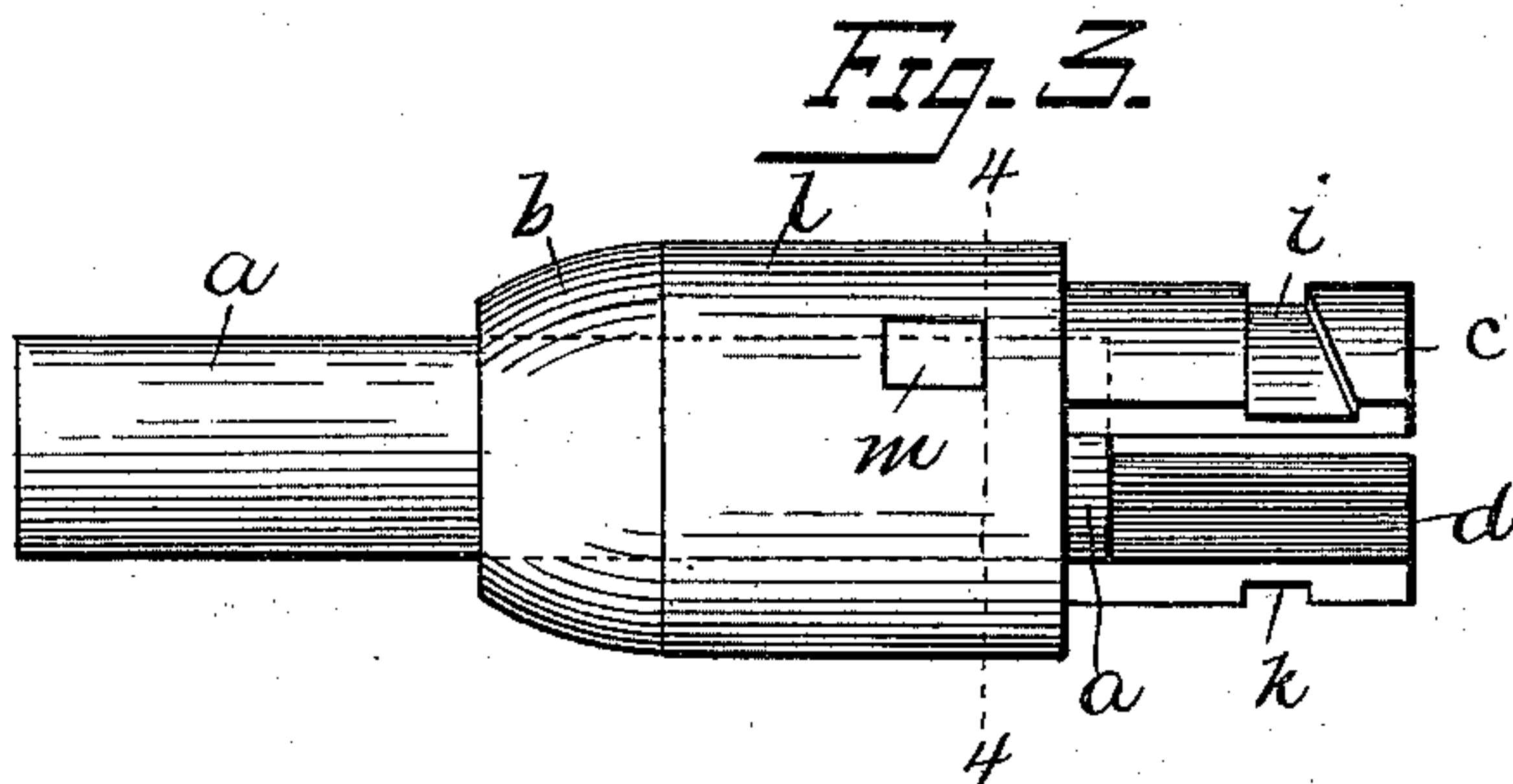
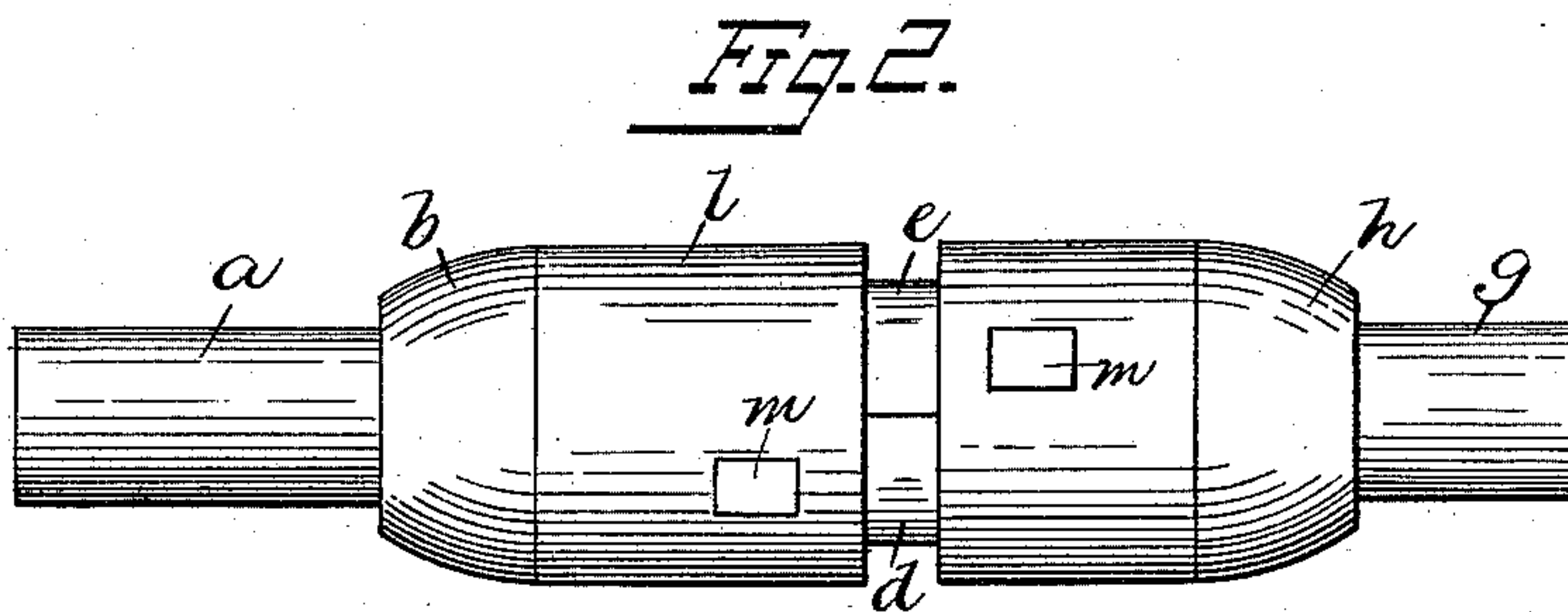
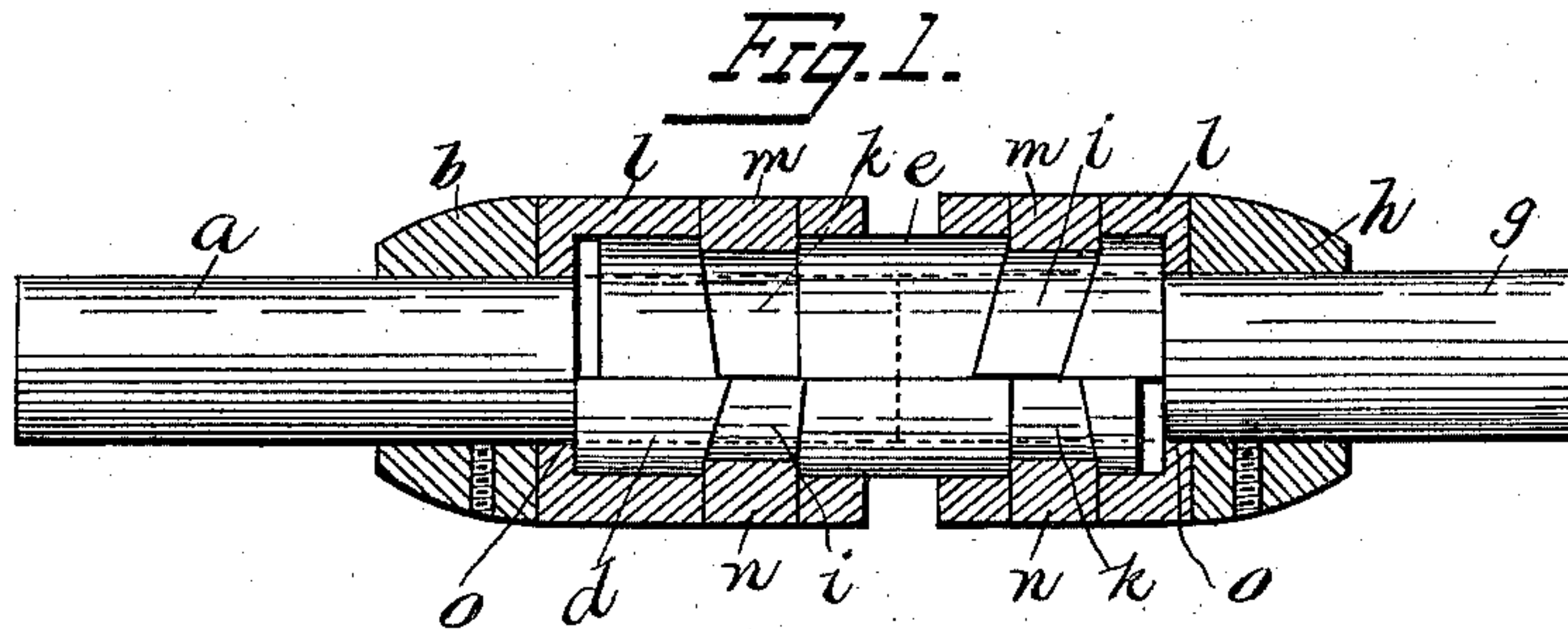
No. 611,618.

Patented Oct. 4, 1898.

B. F. FARROW.
HOSE COUPLING.

(Application filed July 3, 1896.)

(No Model.)



Witnesses.
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UNITED STATES PATENT OFFICE.

BENJAMIN F. FARROW, OF ATLANTA, GEORGIA.

HOSE-COUPLING.

SPECIFICATION forming part of Letters Patent No. 611,618, dated October 4, 1898.

Application filed July 3, 1896. Serial No. 598,040. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. FARROW, a citizen of the United States, residing at Atlanta, in the county of Fulton, State of Georgia, have invented certain new and useful Improvements in Hose-Couplings; 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.

My invention relates to hose-couplings, and more particularly to that class employed in connection with flexible hose in which the elements thereof may be readily assembled and disunited.

Referring now to the drawings, in which like letters of reference indicate similar parts in the several views, Figure 1 is a view, partly in section, of my device with the parts assembled. Fig. 2 is a side elevation. Fig. 3 is a side elevation of one of the parts. Fig. 4 is a section on line 4 4 of Fig. 3.

In the drawings, *a* represents a tube to which one section of hose is attached, said tube having fixed thereto a collar *b*. Extending from the collar *b* and formed integral with the tube *a* are enlarged extensions *c* and *d*, which are adapted to mesh with similar extensions *e* and *f* of a second tube *g*, provided with a collar *h*. These extensions are formed on the opposite sides of the body of the tube *a*, there being sufficient space between these extensions to allow the insertion of the similar portions of the other element of the construction.

Each of the extensions *c*, *d*, *e*, and *f* is provided with two transverse slanting slots *i* and *k*, the slants being in opposite directions, one of which slots is located near the extremity of the extension and the other near the base, so that when the elements of the device are assembled the base-slots of the extensions will be in alinement with the end slots of the adjacent extensions of the opposite element.

Arranged on the extensions of each element is a collar *l*, provided with two inwardly-projecting pins *m* and *n*, adapted to alternately enter the slots in alinement.

The operation of the device is as follows: The two elements being disassembled, the collars *l* are rotated on the projections until

the pins *m* are seated within the slots at the bases of their respective projections. The elements are then pressed together to the position shown in Fig. 1, after which the collars *l* are rotated in opposite directions, causing the projections *m* to leave the base-slots and enter the slots in the extremity of the projections of the opposite element. As the collars are further rotated they tend to approach each other, due to the slant of the slots, and thus they draw the opposite elements into intimate contact, the lengths of the projections being such that the adjacent ends of the tubes *a* and *g* come into intimate contact, and these ends, if desired, may be formed as a wedge and secured, respectively, to prevent leakage.

The rear extremities of the collars *l* are provided with inwardly-projecting annular flanges *o*, which bear upon the rear edges of the extensions *c*, *d*, *e*, and *f*, and thus prevent displacement of the collars in their operation of drawing the elements together.

Having thus described my invention and method of operation, what I claim, and desire to secure by Letters Patent, is—

1. In a hose-coupling the combination with a tube having an annular flange, of extensions running longitudinally of the tube from points adjacent the flange and projecting beyond the end of the tube, the projecting ends forming segments of a tube whose internal diameter is equal to the exterior diameter of the aforesaid tube, slanting grooves arranged transversely of the outer surfaces of said extensions, a collar fitted upon the rear portions of the extensions and having an internal and inner flange closely encircling the tube between the extensions and the flange of the tube, interior projections upon the collar lying normally in slots in the said extensions and a second tube having a flange, extensions and collar corresponding to those of the first tube, the extensions of each tube being adapted to enter the space between the corresponding extensions of the opposite tube and receive in their slots the projections of the corresponding sleeves when the latter are rotated.

2. A hose-coupling comprising tubes having flanges and longitudinal extensions, said

flanges being separated from their respective extensions by interspaces, the extensions of each tube being separated by interspaces adapted to receive the extensions of the opposite tube, lateral slots in the extensions adjacent their ends, collars arranged on the extensions and having internal annular flanges entering their respective spaces between the tube flanges and extensions, interior projections on said collars adapted to enter the grooves of the slots of their opposite exten-

sions to hold the elements in position and additional slots in the extensions adapted to receive the projections of their respective collars when rotated from engagement with the slots of the opposite extensions. 15

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

BENJAMIN F. FARROW.

Witnesses:

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