

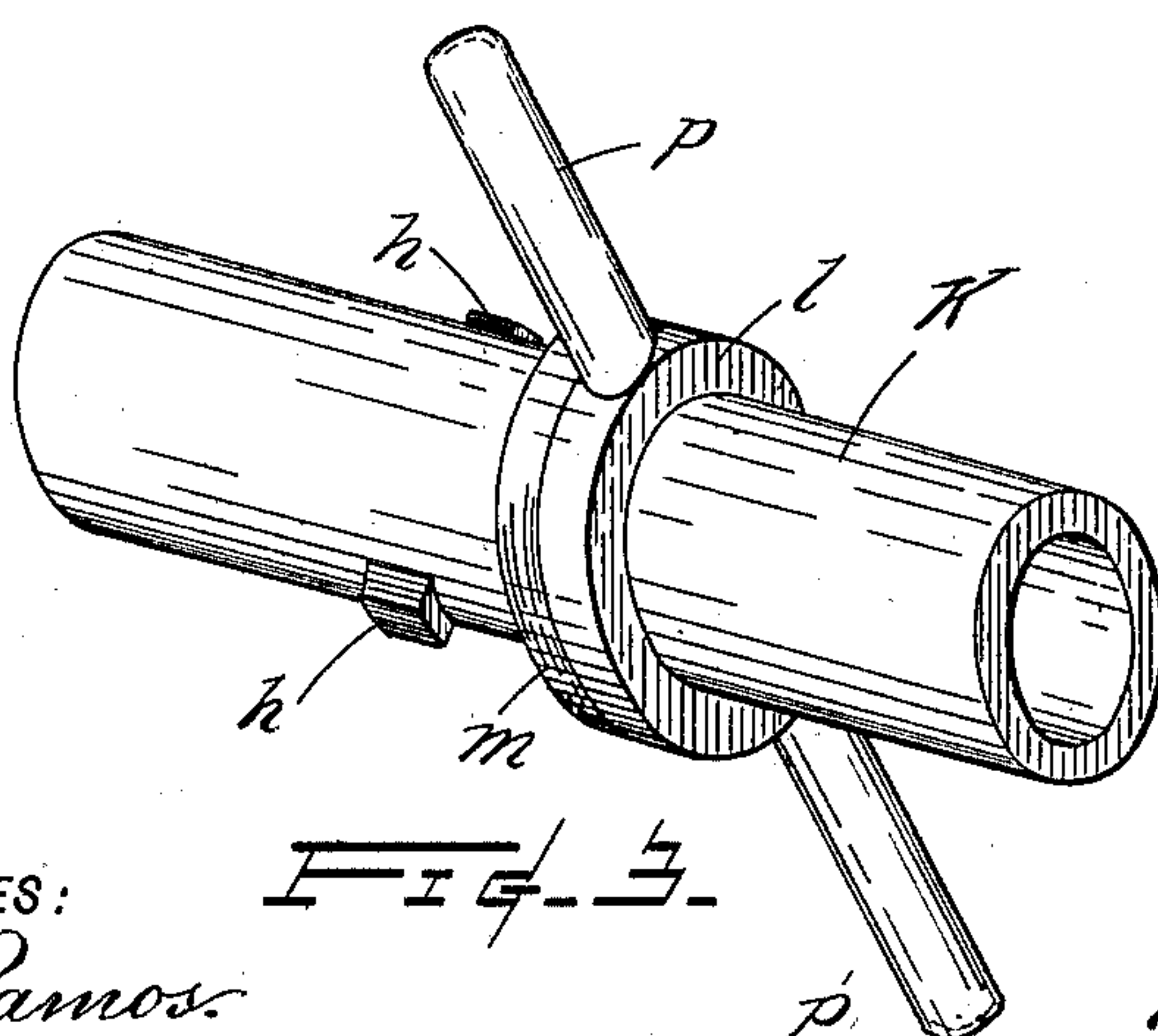
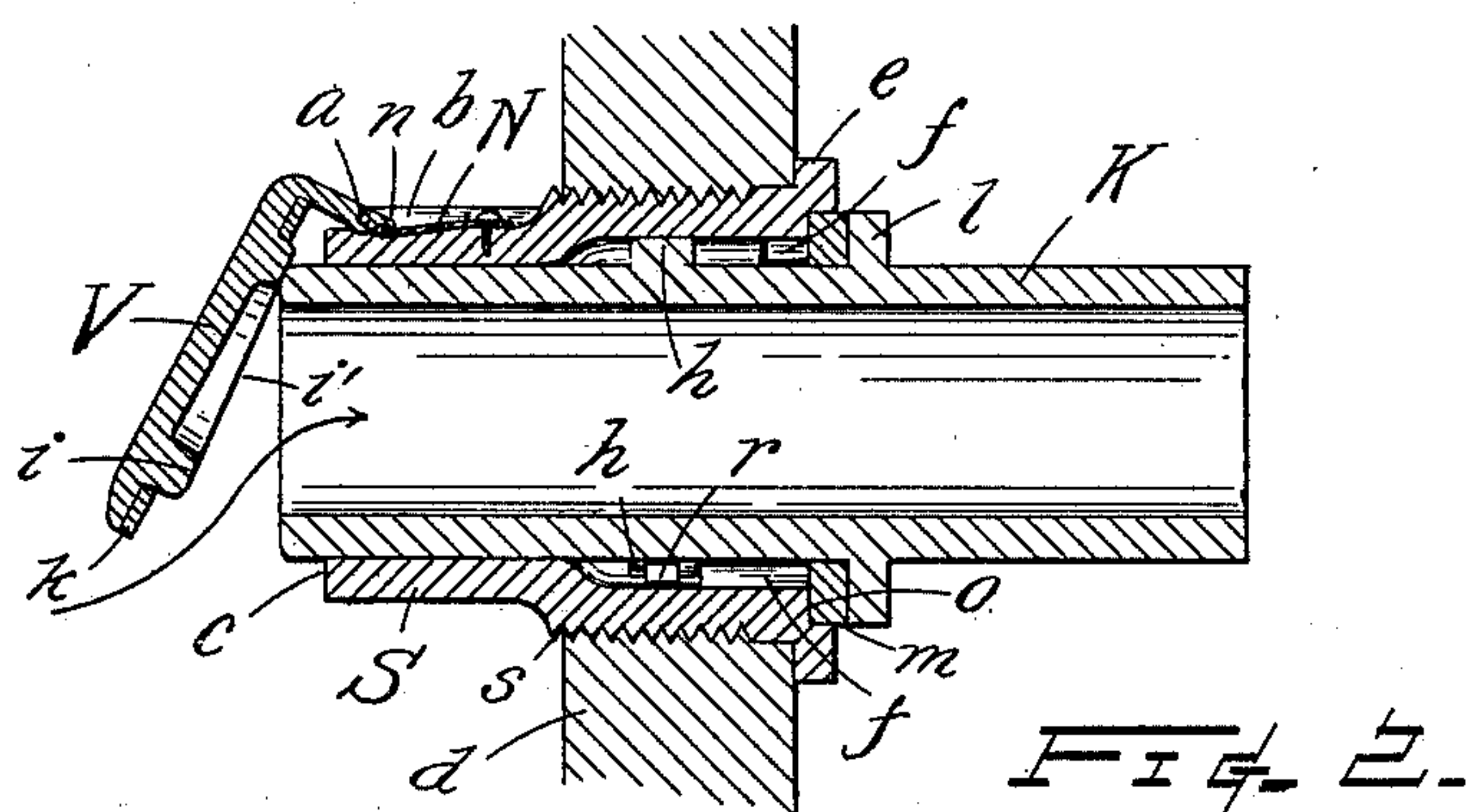
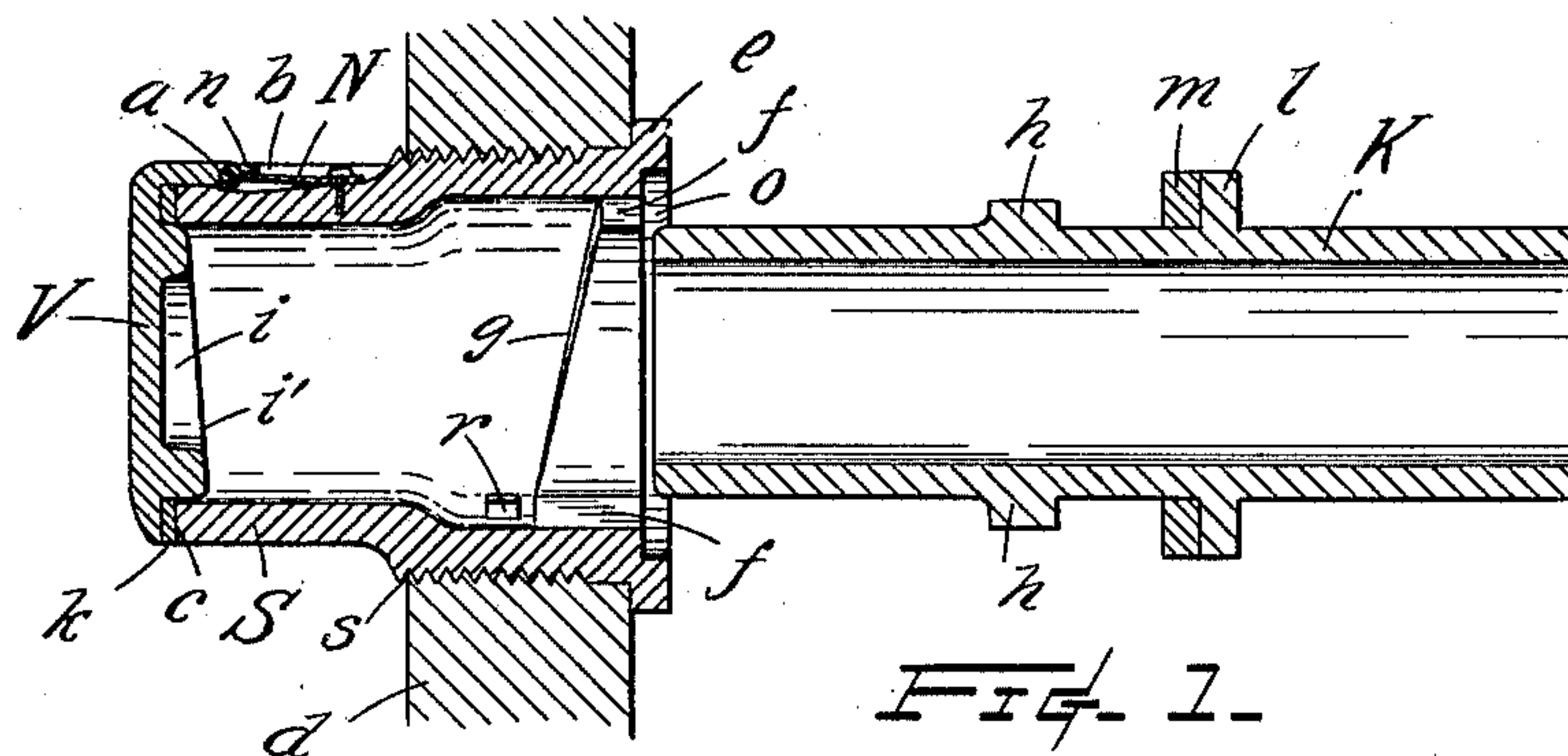
**No. 756,582.**

PATENTED APR. 5, 1904.

M. J. CHAPLIN.  
VALVE.

APPLICATION FILED NOV. 22, 1902.

NO MODEL.



**WITNESSES:**

Chas. Ramos.  
Chas. E. S. Burch

INVENTOR

*M. J. Chaplin.*

BY

Pierre Barnes  
ATTORNEY



# UNITED STATES PATENT OFFICE.

MANLEY J. CHAPLIN, OF SEATTLE, WASHINGTON, ASSIGNOR TO THE  
AUTOMATIC VALVE COMPANY, OF SEATTLE, WASHINGTON.

## VALVE.

SPECIFICATION forming part of Letters Patent No. 756,582, dated April 5, 1904.

Application filed November 22, 1902. Serial No. 132,393. (No model.)

*To all whom it may concern:*

Be it known that I, MANLEY J. CHAPLIN, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Valves, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to valves; and its object is to provide a new and improved valve which is simple and durable in construction and arranged to perfectly control the flow or passage of fluids through an aperture or pipe to which the invention may be connected.

The invention consists of the novel features and parts and combinations thereof, as will be hereinafter fully described and claimed.

Referring to the accompanying drawings, wherein like letters indicate corresponding parts in all of the views, Figure 1 is a longitudinal section through the valve and the detached key. Fig. 2 is a similar section of same with the key in position and the valve opened thereby. Fig. 3 is a perspective view of the key.

The letter V indicates a clack-valve, which is hinged by a pivot *a* to lugs *b* of a sleeve-socket S, upon the end *c* of which the clack-valve is seated. The socket has an external screw-thread *s* for coupling the same to a pipe or receptacle *d*, from which the liquid is to be drawn, and having upon its opposite end an integral collar *e*. Extending within the last-named end of the socket are two longitudinal slots *f*, which terminate in obliquely-arranged transverse shoulders *g*. K is a cylindrical hollow key having intermediate of its length external projections or studs *h*, adapted to enter the aforesaid slots *f* of the socket, which bearing against the said oblique shoulders force the key forward as it is turned against the clack-valve to open the same and also prevent the withdrawal of the key by a longitudinal pressure thereon. The inner face of the clack-valve is provided with an annular ridge *i*, having an inclined face *i'*, so that the end of the key must come in contact with the valve at a point diametrically opposite the hinge where the pressure is most effective in open-

ing the valve against the opposing water-pressure. A washer or gasket *k*, of vulcanized rubber or other suitable yielding material, is placed about the said annular ridge to make a tight closure on the seat when the valve is shut. N indicates a spring which engages with a projection *n* on the valve part of the hinge to insure the valve being quickly seated when the key is withdrawn therefrom. A collar *l* is provided on key to form an abutment, against which is placed a packing-ring *m*, which fits into an annular depression *o* of the socket to prevent any leakage thereat. Handles *p* (see Fig. 3) are preferably formed on the key to facilitate the manipulation of the same, and a stop *r* is provided within the socket to limit the travel of the key-studs to the length of the oblique shoulders *g*.

It is obvious that more or less than two studs may be formed on the key with a corresponding number of slots in the socket, as may be deemed desirable.

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

The combination with the sleeve-socket having its inner end reduced in diameter the outer end thereof being formed with an annular seat, of a spring-pressed valve hinged to the reduced inner end of said sleeve, the enlarged portion of said sleeve being formed with longitudinal slots terminating in transverse oblique shoulders, the inner face of said valve being formed with an inclined annular ridge, a gasket encircling said ridge and being adapted to normally engage the inner end of said socket, and a cylindrical hollow key provided with studs to engage said slots and shoulders, the inner end of said key being adapted to engage the ridge of said valve, a collar mounted on said key and a packing-ring abutting against said collar and being adapted to be received in the annular seat of said socket.

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

MANLEY J. CHAPLIN.

Witnesses:

PIERRE BARNES,  
P. C. DORMITZER.