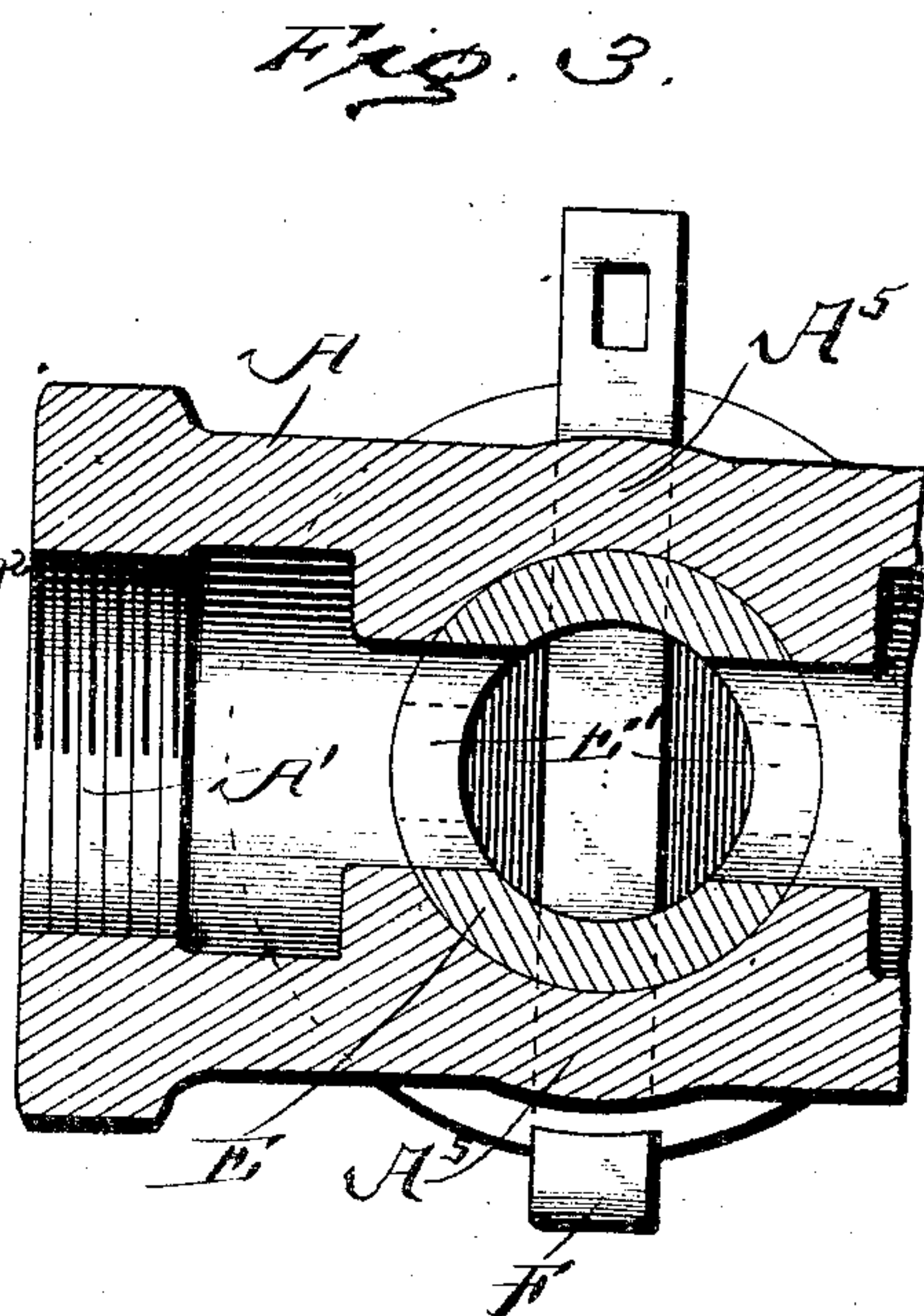
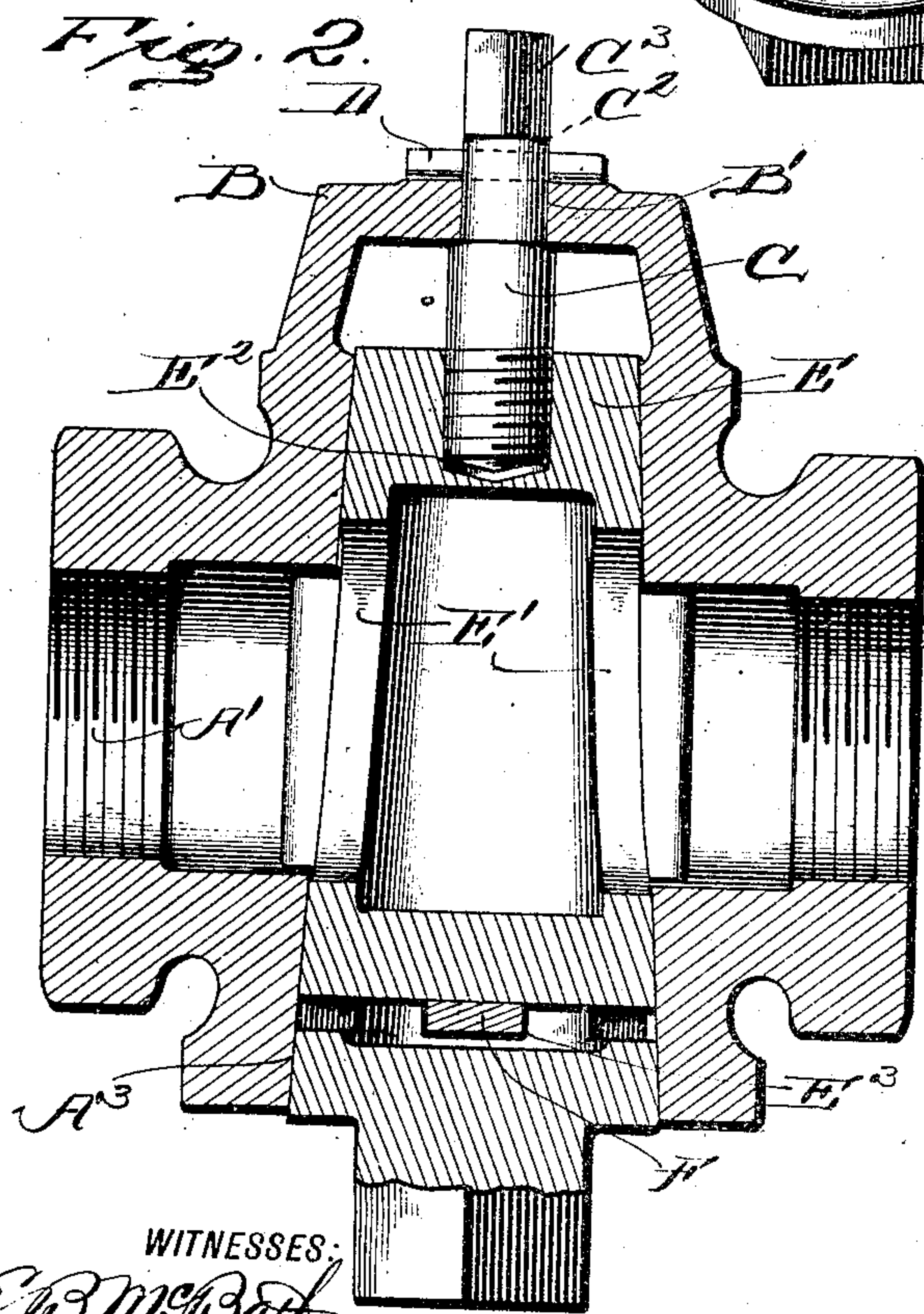
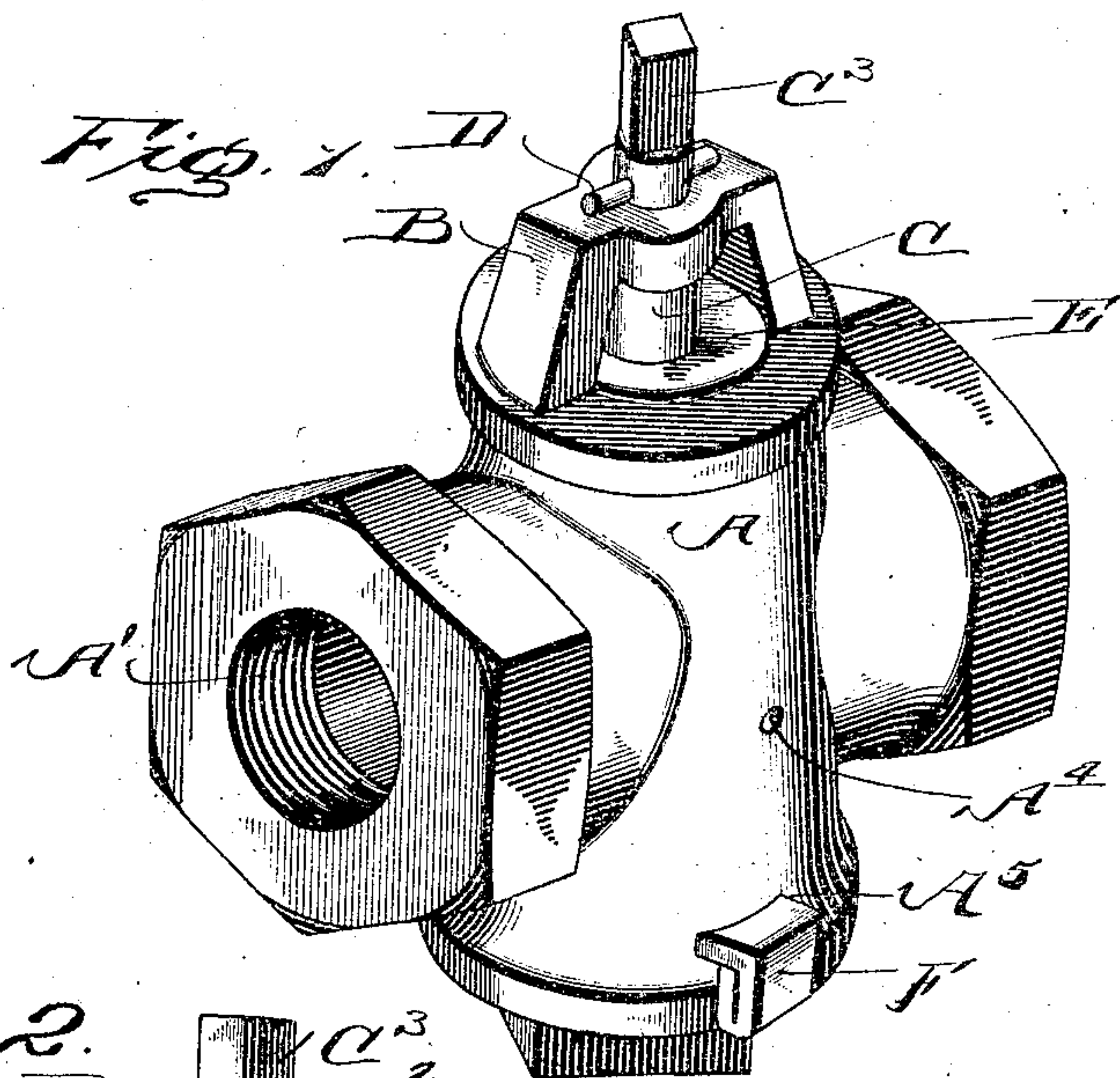


No. 889,523.

PATENTED JUNE 2, 1908.

F. McM. HOLLIDAY.  
ADJUSTABLE STOP COCK.

APPLICATION FILED APR. 10, 1906.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

FRANCIS McM. HOLLIDAY, OF GLADE MILLS, PENNSYLVANIA.

## ADJUSTABLE STOP-COCK.

No. 889,523.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed April 10, 1906. Serial No. 310,952.

*To all whom it may concern:*

Be it known that I, FRANCIS McM. HOLLIDAY, a citizen of the United States, residing at Glade Mills, in the county of Butler and State of Pennsylvania, have invented a new and useful Improvement in an Adjustable Stop-Cock, of which the following is a specification.

This invention relates to stop cocks and more particularly to adjustable stop cocks, the object being to provide a stop-cock with means so that the turning plug can be drawn tightly up into the casing and one which can be easily and quickly removed without pounding the plug out, as is the case with the cocks now in use.

Another object of my invention is to provide means for locking the turning plug securely in the casing.

The invention consists of the novel features of construction, combination and arrangement of parts, hereinafter fully described and pointed out in the claims.

In the drawings forming a part of this specification:—Figure 1 is a perspective view of my improved stop cock. Fig. 2 is a vertical sectional view of the cock. Fig. 3 is a horizontal sectional view of the cock.

In the drawings A, indicates the valve casing which is provided with the usual oppositely disposed horizontal screw-threaded inlet port A<sup>1</sup>, and outlet port A<sup>2</sup>, having a tapering vertical plug opening A<sup>3</sup>, formed intermediate the inlet and outlet ports provided with a waste passage A<sup>4</sup>, leading out to one side.

The top of the casing is provided with a bridge B, extending upwardly and across the tapering plug, being provided with an opening B<sup>1</sup>, in which the reduced end C<sup>1</sup>, of the threaded bolt C, is secured by a pin D, passing through an opening C<sup>2</sup>, in the bolt. The upper end of the bolt C, is formed square as shown at C<sup>3</sup>, so that it can be easily turned with a wrench.

A hollow tapering plug E, provided with a wrench receiving head is adapted to work in the tapering opening and is provided with oppositely disposed vertical slots E<sup>1</sup>, forming a horizontal passage adapted to communicate with the inlet port and outlet port. The top of the plug is provided with a threaded recess E<sup>2</sup>, in which the threaded end of the

bolt is adapted to work and by means of the bolt the plug can be drawn up into the tapering socket; so as to form a perfect water tight joint, or forced out of the opening so as to overcome the difficulty of having to drive the plug out with a hammer or wrench.

The casing is provided with oppositely disposed slots A<sup>5</sup>, leading into the tapering opening adapted to register with spaced slots E<sup>3</sup> crossing each other at right angles, formed in the plug E, and through which a key F, is adapted to pass and secure the plug in a closed or opened position as desired.

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

1. In a device of the kind described, the combination with a valve casing provided with a tapering opening intermediate the inlet and outlet ports and having a waste passage communicating therewith, and a bridge formed integral with the casing on the top and provided with an opening, of a hollow tapering plug arranged in said tapering opening and provided with oppositely disposed vertical slots forming a horizontal passage, a wrench receiving head formed on one end of said plug and a threaded recess formed on the other end, a threaded bolt secured in said threaded recess provided with a reduced end extending through the opening of the bridge and having a transverse bore extending therethrough in a plane above the bridge, and a pin arranged in said bore for locking said plug in said casing.

2. In a device of the kind described, the combination with a valve casing provided with a tapering opening and having an integral bridge extending upwardly and across said tapering opening, and provided with an opening, of a tapering plug arranged in said opening and provided with a threaded recess, a bolt arranged in said recess provided with a reduced end extending through the opening in the bridge, and having a transverse bore formed therein, and a pin secured in said bore for locking said plug in said opening.

FRANCIS McM. HOLLIDAY.

Witnesses:

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