

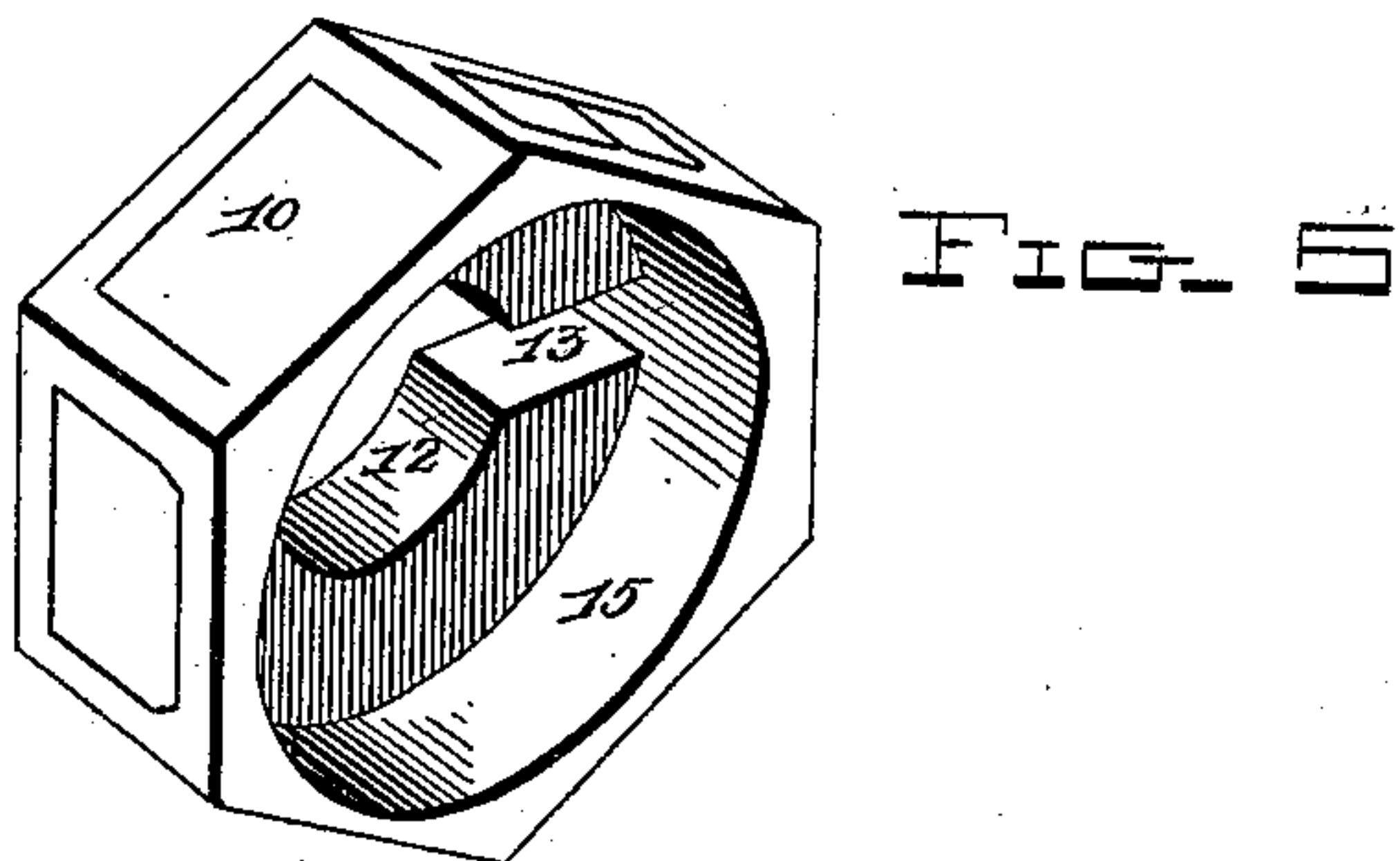
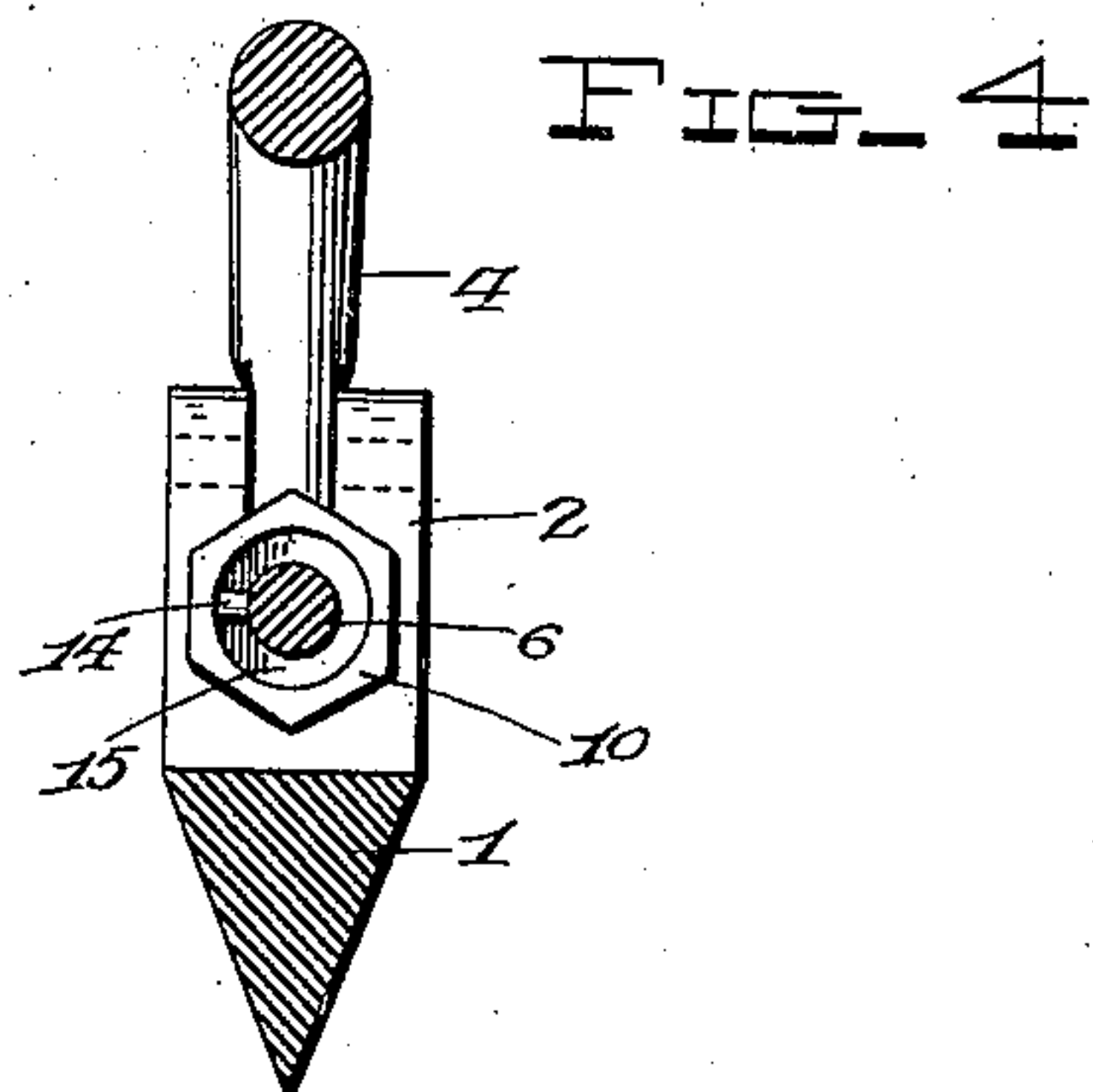
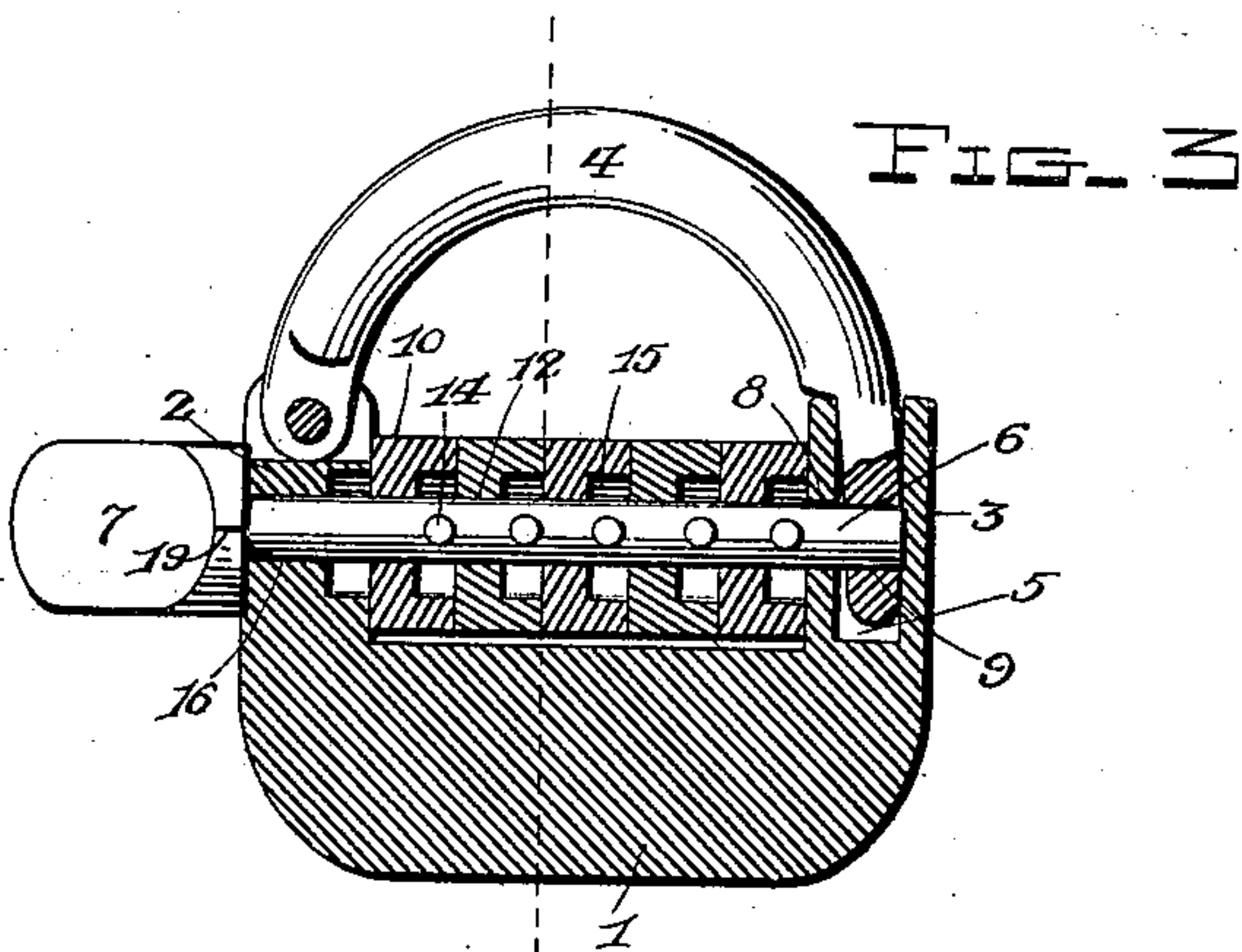
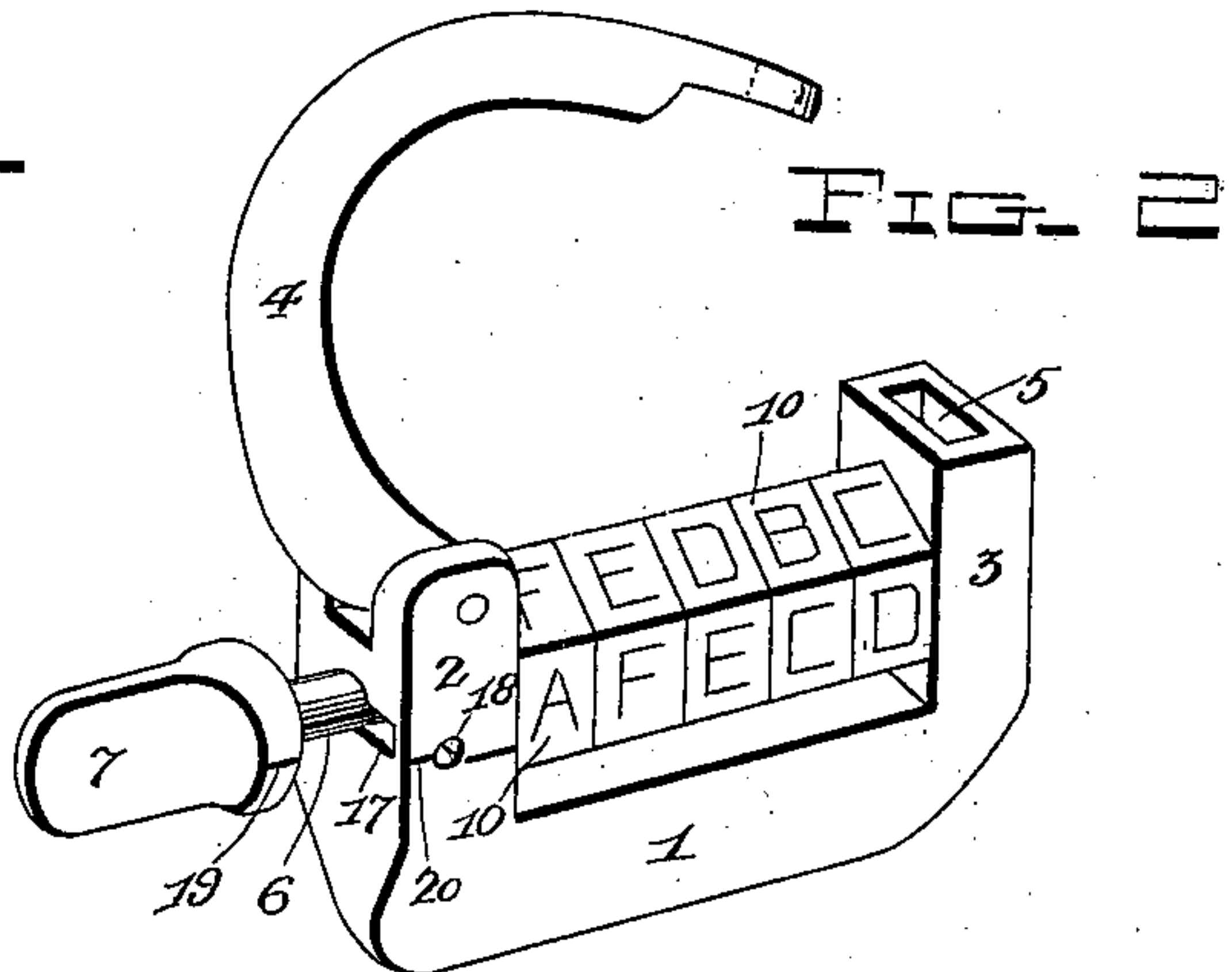
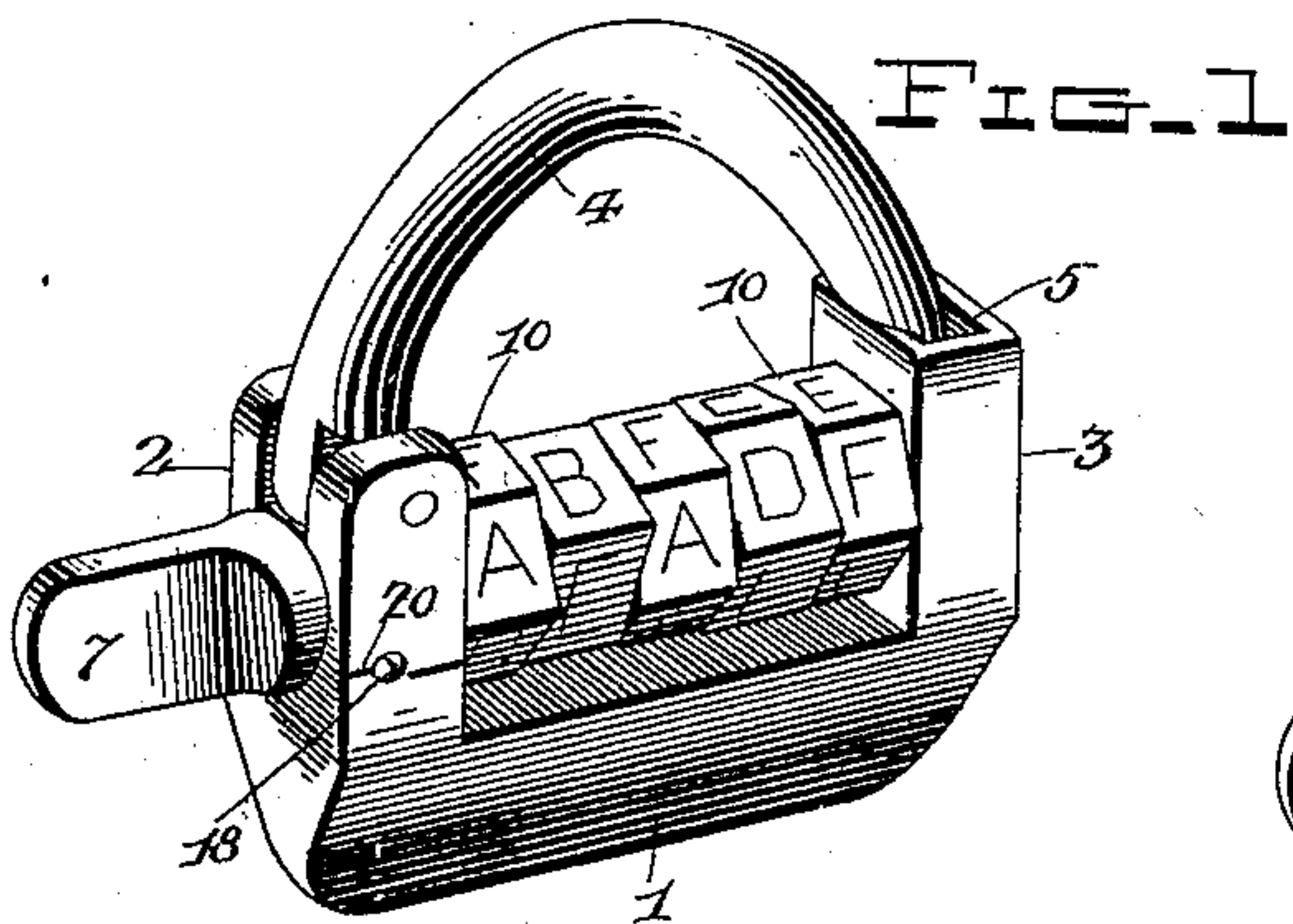
No. 621,095.

Patented Mar. 14, 1899.

J. E. JOLLIFF.  
PERMUTATION PADLOCK.

(Application filed Sept. 29, 1898.)

(No Model.)



Witnesses  
Thomas L. J. Jolliff  
J. E. Jolliff

Jonathan E. Jolliff, Inventor  
by  
A. B. Wilson & Co. Attorneys



# UNITED STATES PATENT OFFICE.

JONATHAN E. JOLLIFF, OF CATAWBA, WEST VIRGINIA.

## PERMUTATION-PADLOCK.

SPECIFICATION forming part of Letters Patent No. 621,095, dated March 14, 1899.

Application filed September 29, 1898. Serial No. 692,196. (No model.)

*To all whom it may concern:*

Be it known that I, JONATHAN E. JOLLIFF, a citizen of the United States, residing at Catawba, in the county of Marion and State of West Virginia, have invented certain new and useful Improvements in Combination-Padlocks; and I do 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 improvements in combination-padlocks; and the object is to provide a simple, convenient, strong, and durable lock of this character.

To this end the invention consists in the construction, combination, and arrangement of the device, as will be hereinafter more fully described, and particularly pointed out in the claim at the end of this specification.

The same reference characters indicate the same parts of the invention in the accompanying drawings.

Figure 1 is a perspective view of my improved combination-padlock with the hasp closed. Fig. 2 is a similar view with the hasp open. Fig. 3 is a longitudinal section. Fig. 4 is a transverse section. Fig. 5 is a detail perspective view of one of the tumbler-collars.

1 denotes the lock case or frame, formed with the integral parallel jaws 2 and 3, the jaw 2 being bifurcated to receive the pivoted end of the hasp 4, while the jaw 3 is formed with a pocket 5 to receive the free end of the hasp.

6 denotes a cylindrical shaft or bolt journaled in the jaw 2, and its inner end terminates in a thumb-key or handle 7, by means of which it is manipulated. The shaft 6 also has a limited longitudinal movement, its outer end extending through an alined orifice 8 in the jaw 3 and a corresponding orifice 9 in the free end of the hasp.

10 10 denote a series of collars loosely mounted on the shaft 6, and as all of these collars are similar in construction the description of one will answer for the rest. As seen in Fig. 5, each collar is formed with an axial orifice 12 to receive the shaft 6 and with a radial communicating slot 13 to permit the pas-

sage of the pins 14 on the shaft. Each collar is also formed with a concentric recess 15, in which one of the pins revolves when the shaft is projected forward to lock the hasp. As shown, these collars are hexagonal; but of course they may be of any polygonal or cylindrical form, and their peripheries are provided with the usual characters employed in this class of locks.

The orifice 16 in the jaw 2, through which the shaft 6 passes, communicates with a radial slot 17 to permit the passage of the pins 14 in withdrawing the shaft, and 18 denotes a set-screw in the jaw, with its inner end extending into the slot 17 and in the path of the near pin 14 to act as a limit-stop for the shaft and prevent it being withdrawn too far when the hasp is released. By removing this set-screw the shaft-bolt 6 may be entirely removed, so as to rearrange the order of the tumbler-collars, and thus change the combination of the lock.

19 represents an index-mark on the thumb-key 7, and 20 a corresponding mark on the jaw 2. The mark 19 is alined with the pins 14 on the shaft-bolt 6, and the mark 20 is alined with the slot 17 in the jaw, so that to open the lock it is only necessary to turn the handle until the mark 19 is in line with the mark 20 on the jaw and then turn the tumbler-collars 10 so that all of their slots 13 are alined with the pins 14. The bolt may now be withdrawn to release the hasp.

The lock is supported in the left hand by grasping the thumb-key 7, and the index-mark 19 is alined with the corresponding mark 20 on the lock, and the tumblers are then brought to their proper alinement, as shown in Fig. 2, by the fingers of the right hand.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In combination, the body portion 1 formed with the integral jaw 2, provided with the longitudinal bolt-orifice 16, slot 17 and index-mark 20, and the integral parallel jaw 3, formed with the hasp-pocket 5 and the bolt-orifice 8, the hasp 4 pivoted to the jaw 2, and having its free end formed with the bolt-re-

5 taining orifice 9, the rotatable bolt 6 having its exposed end provided with the index-mark 19, the lateral pins 14 fixed in the bolt, and the tumblers formed with the orifice 12 and slot 13 and loosely mounted on the bolt between said jaws 2 and 3, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JONATHAN E. JOLLIFF.

Witnesses:

VALERIE CARTER,  
JENNIE SWAGER.