

C. C. COOK & J. N. GREEN.
Permutation-Padlock.

No. 226,599.

Patented April 20, 1880.

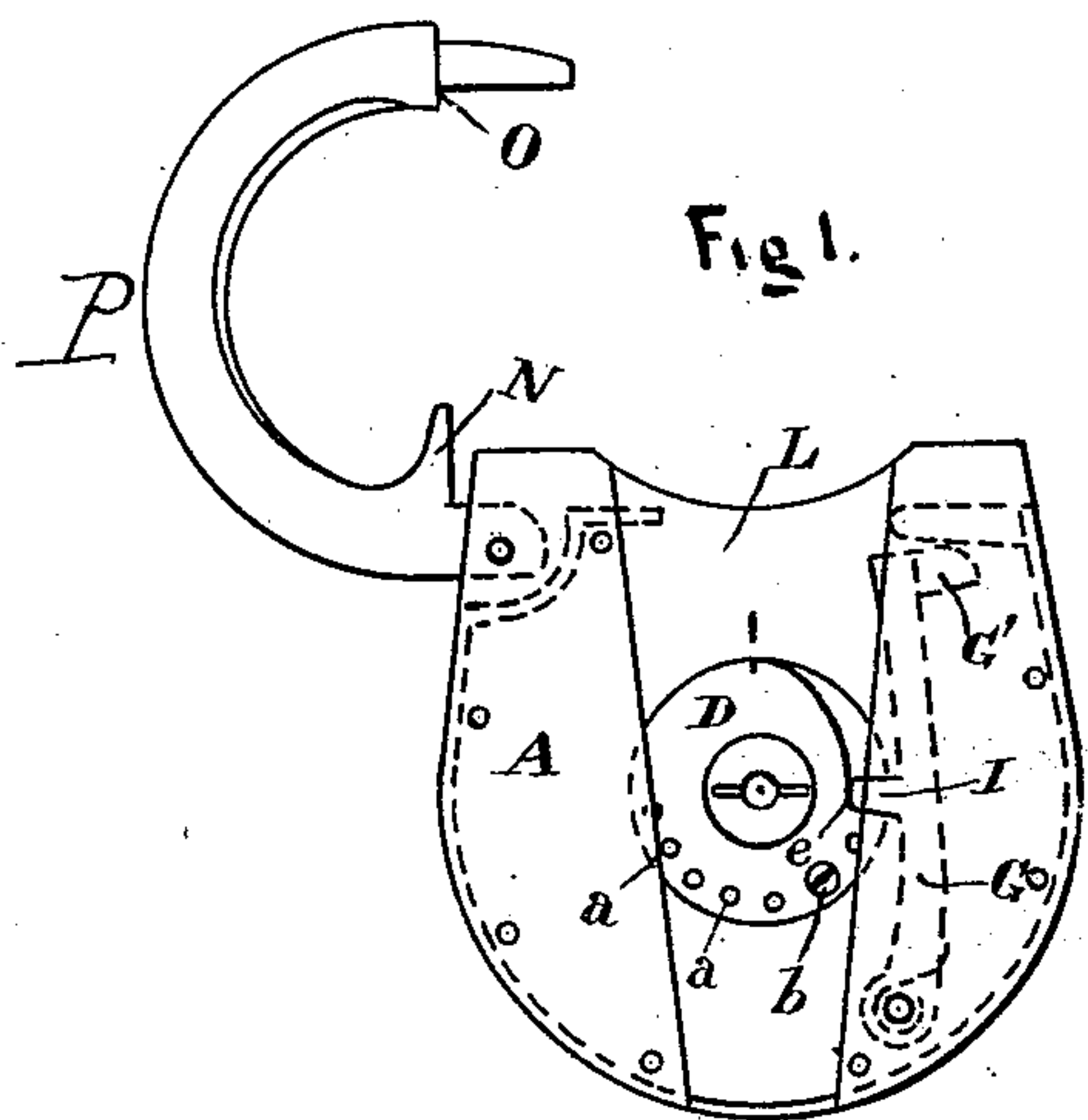


Fig 1.

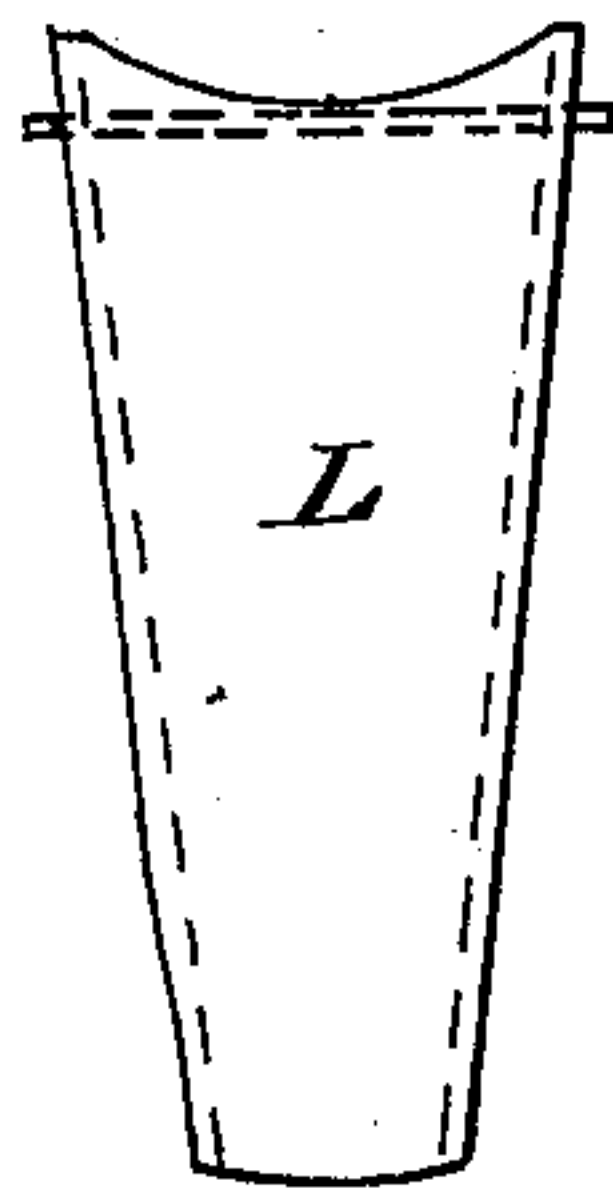


Fig 2

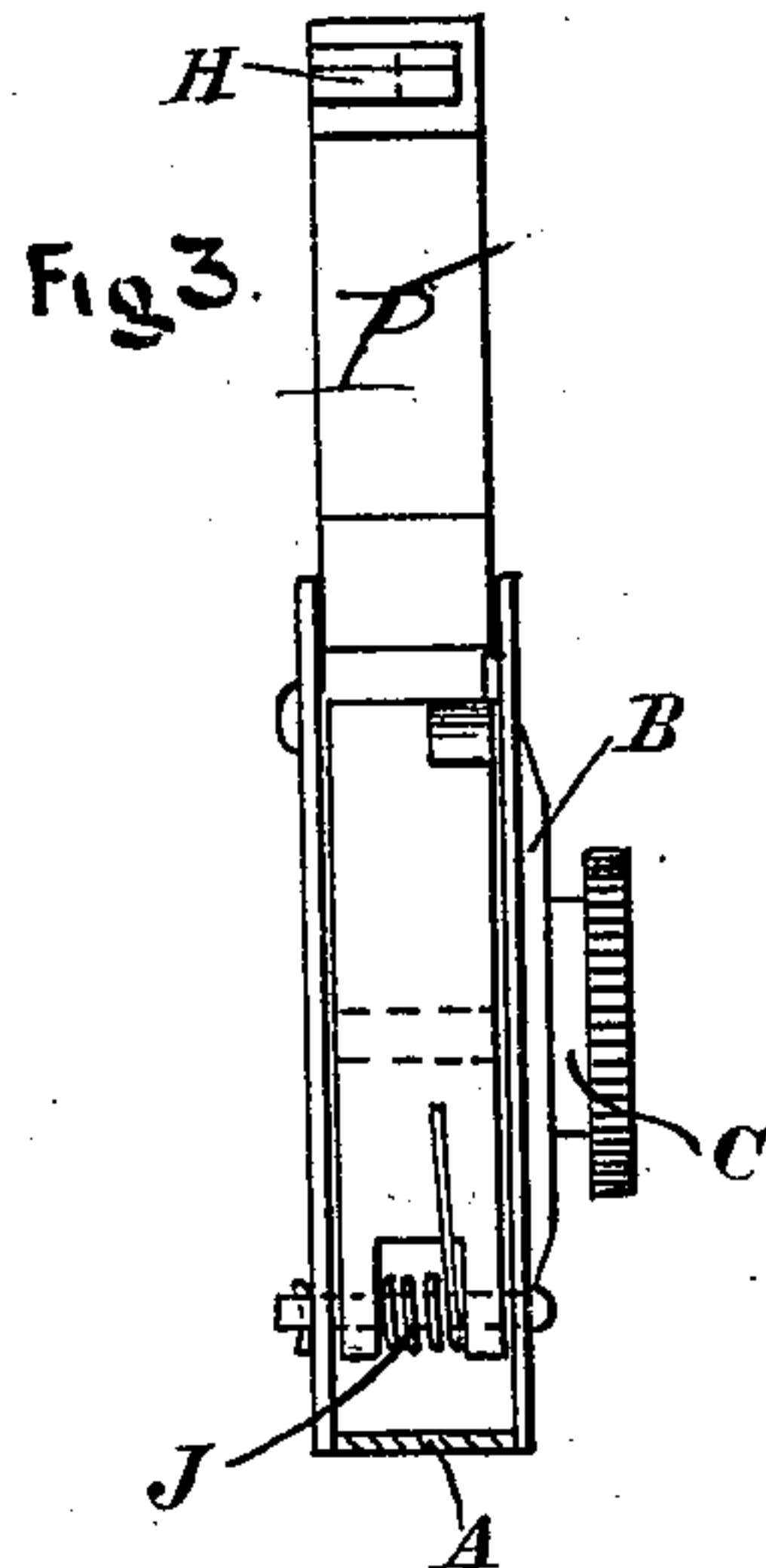


Fig 3.

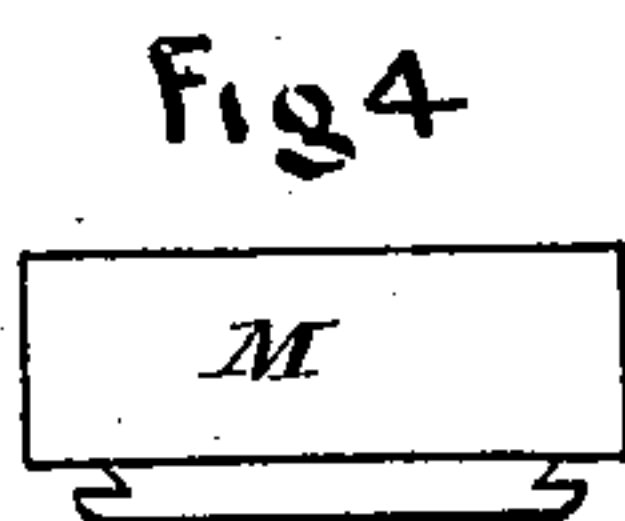


Fig 4

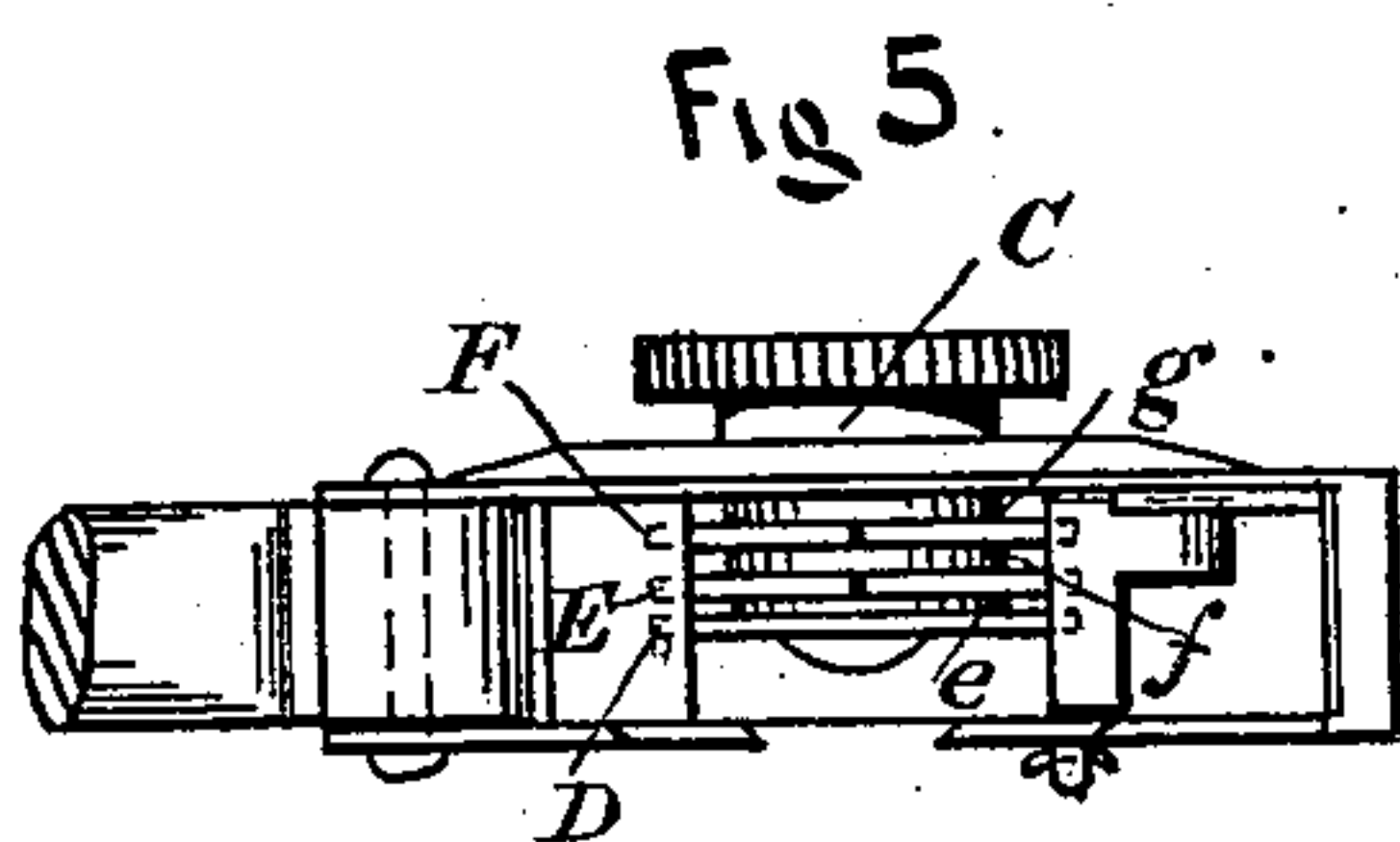


Fig 5.

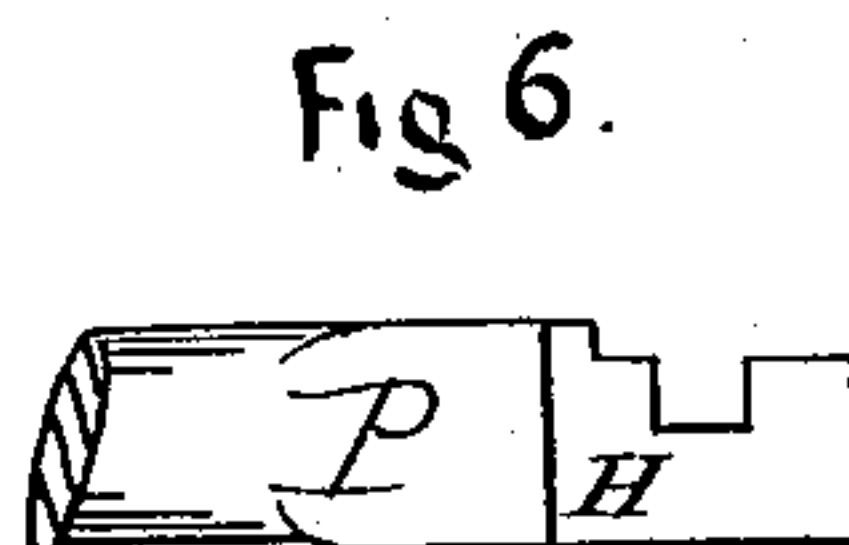


Fig 6.

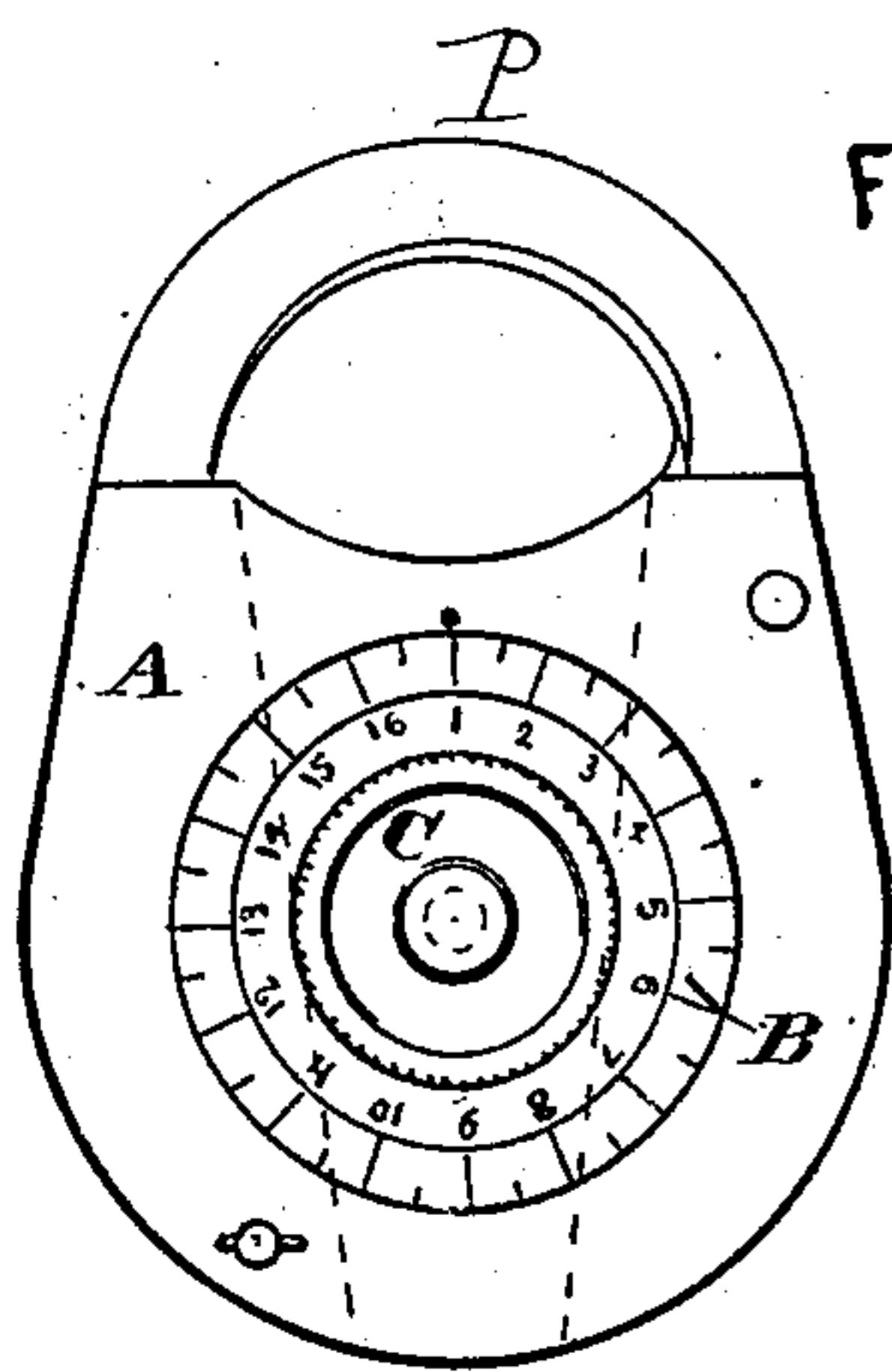


Fig 7.

Witnesses.
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UNITED STATES PATENT OFFICE.

CHAPIN C. COOK AND JASPER N. GREEN, OF SANTA CRUZ, CALIFORNIA.

PERMUTATION-PADLOCK.

SPECIFICATION forming part of Letters Patent No. 226,599, dated April 20, 1880.

Application filed September 22, 1879.

To all whom it may concern:

Be it known that we, CHAPIN C. COOK and JASPER N. GREEN, of Santa Cruz, in the county of Santa Cruz and State of California, have invented a certain new and useful invention or Improvement in Permutation-Padlocks; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters marked thereon.

In the said drawings, Figure 1 is a back view of the lock; Fig. 2, back view of the sliding plate; Fig. 3, edge view of lock, partly in section; Fig. 4, top view of slide; Fig. 5, top view of lock; Fig. 6, end view of hasp; Fig. 7, front view of lock.

Our invention has for its object to provide an improved padlock of the permutation kind, which, by reason of its simplicity and the facility of its operation, shall be suitable for railway freight-cars, post-office mail-bags, and various kinds of doors and fastenings.

It consists in the novel construction, arrangement, and operation of the various parts of which the lock is composed, as will hereinafter be fully described, and then pointed out in the claims.

In the drawings, A represents the case containing the mechanism, upon one side of which is the dial B. C is the spindle, having upon it the locking and unlocking disks D E F. These disks are provided with various holes, *a a*, with operating pins or studs *b* and notches or slots *e f g*. The movements of these disks D E F are caused to take place at different times, sooner or later, in the relations of the spindle C by changing the place of the stud or pin *b*, and setting it forward or backward in one of the holes of the disk D; so also the other pins or studs in the disks E F may be changed to effect the combinations required.

In one side of the case is pivoted an arm or lever, G, having a hooked end, G', which interlocks with the notched end H of the hasp. A dog or projection, I, is made upon the outer face of the lever or arm about midway thereof. This arm or lever is operated by a spring, J, which causes it to fly forward when the

notches or slots in the disks or tumblers are all in a vertical line with the dog on the side of the lever, which releases the hooked end of the lever from the notched end of the hasp, and permits of the hasp being withdrawn or thrown back and unlocked, when, by turning the spindle again, the position of the slotted disks is changed and the arm is forced back against the edge of the case, and the entrance to the end of the hasp is barred, and can only be gained by the finding of the slots in the disks by the dog or projection upon the arm, which permits the arm to fly forward into the slots to lock it again.

A portion of one side of the case is cut away, so as to form a removable plate, L, which fits the sides of the case by closely-beveled joints, which make this case air and water tight. This removable plate is provided with a flange or lip, M, so that when it is in position it shuts down over the working parts of the lock, and is secured in place when the hasp is closed by means of the projection N at the heel of the hasp and a rabbet or ledge, O, at the point of the hasp, which shut down closely over the space at each end of the lip or flange necessary for the movement of the hasp. Thus this movable plate can only be withdrawn from the lock-plate when the hasp is released from the locking portion and is thrown back, and the lock is also made water-tight.

To open the lock with its present combination, turn the dial B to the left several times round, so as to be sure that all the disk-wheels move together in that direction; bring figure 3 on the dial to the point on the lock-plate; then turn the dial to the right once around and enough farther in the same direction to bring figure 9 on the dial to the point on the lock-plate; turn toward the left until figure 1 on the dial comes opposite the point on the lock plate or case, and the spring J will throw back the lever and unlock the hasp, so as to open it.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a padlock, the combination of the removable plate L, provided with lip M, and hasp

P, provided with projections N and O, with lock-case A, all arranged and operating in the manner and for the purpose specified.

2. A permutation-padlock, as herein described, consisting of the slotted disks D E F, dial B, operated by the knob and spindle C, lever G, provided with dog I and projection G', spring J, for operating lever G, hasp P, provided with projections N and O, removable plate L, having lip M, and case A, all combined,

arranged, and operating as and for the purpose specified.

In testimony that we claim the foregoing we have hereunto set our hands and seals this 6th day of August, 1879.

CHAPIN C. COOK. [L. S.]

JASPER N. GREEN. [L. S.]

Witnesses:

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JAMES C. WARD.