

(No Model.)

A. RODEGARD.

PERMUTATION PADLOCK.

No. 373,155.

Patented Nov. 15, 1887.

Fig. 1.

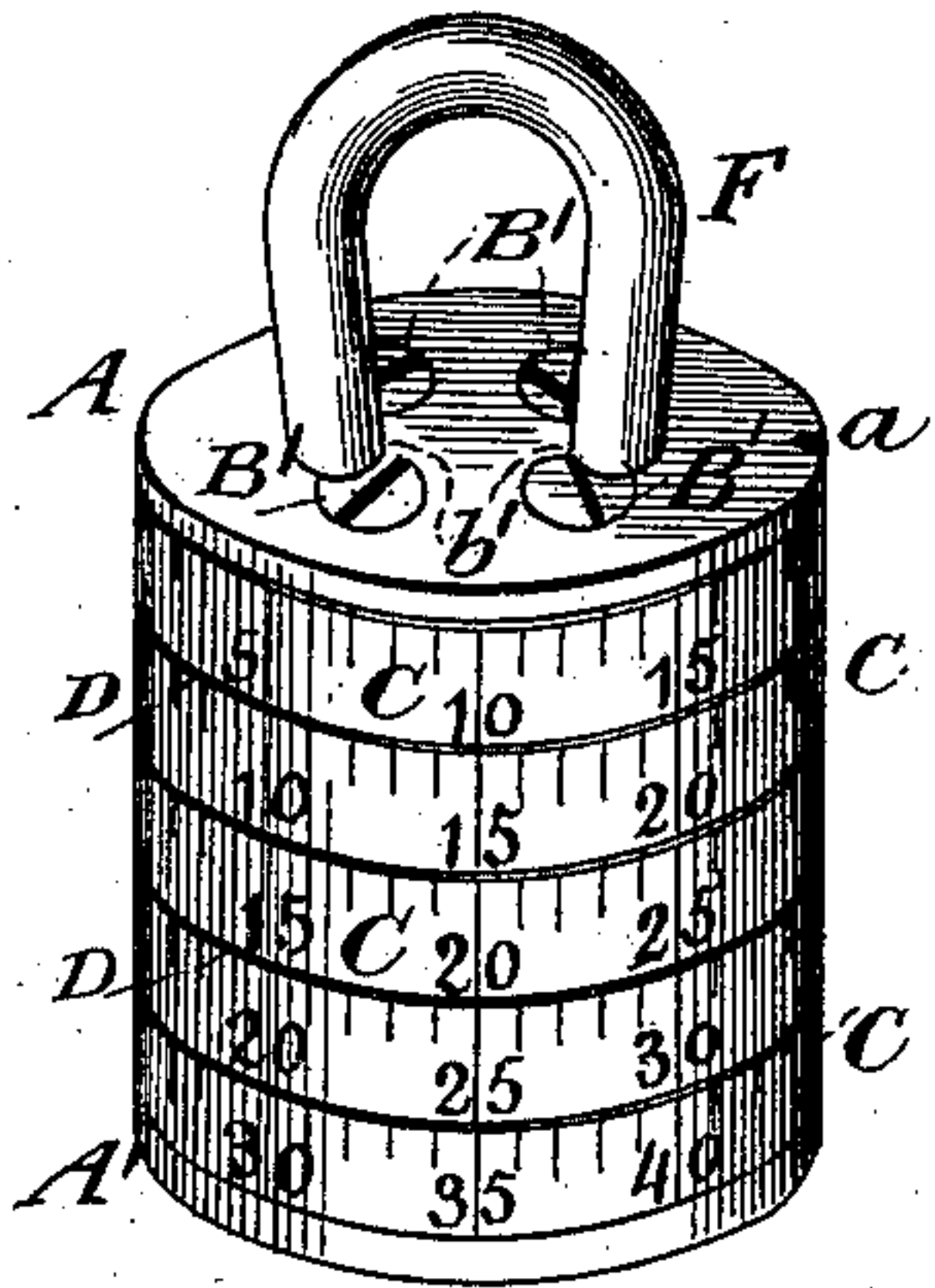


Fig. 2.

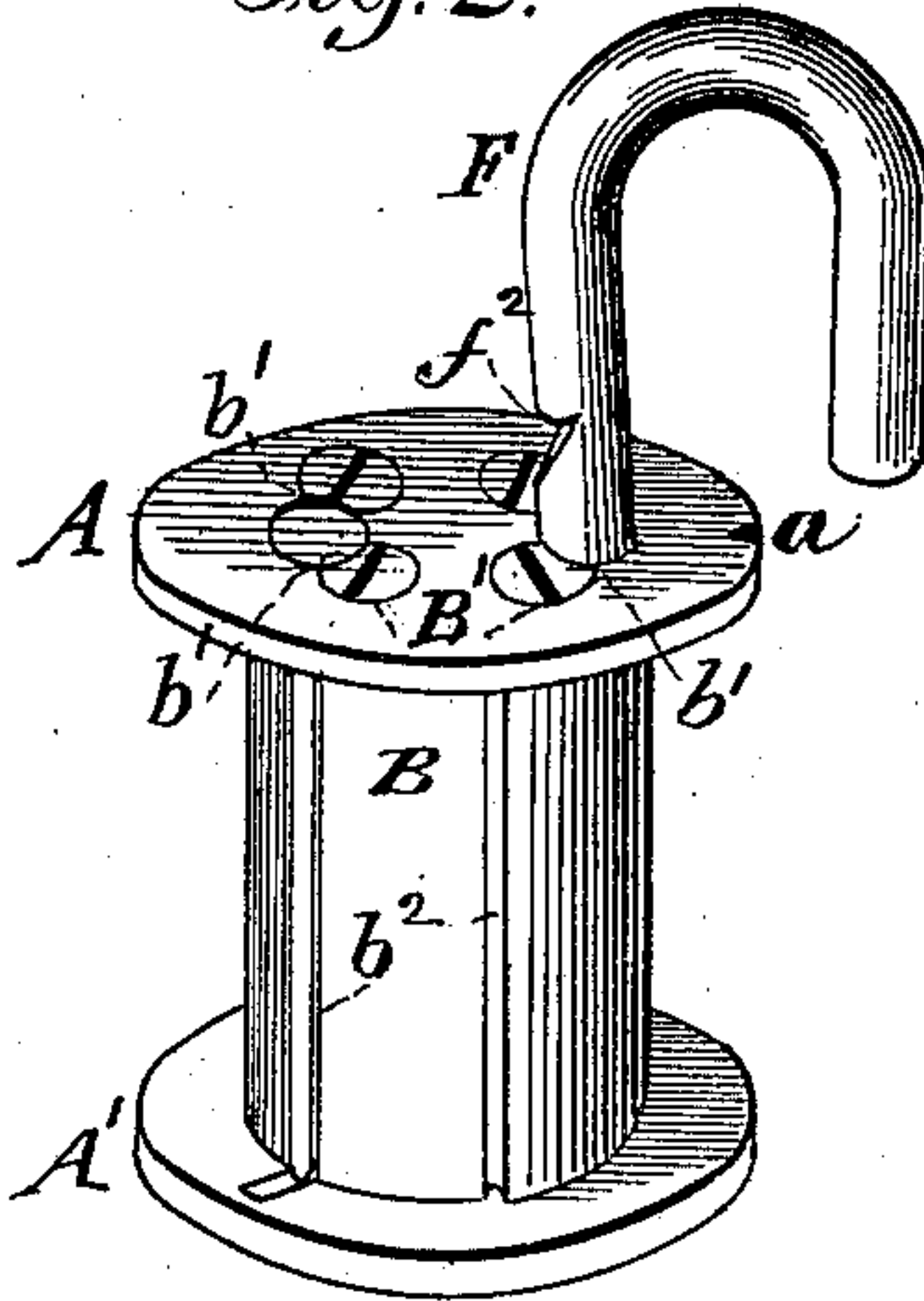


Fig. 3.

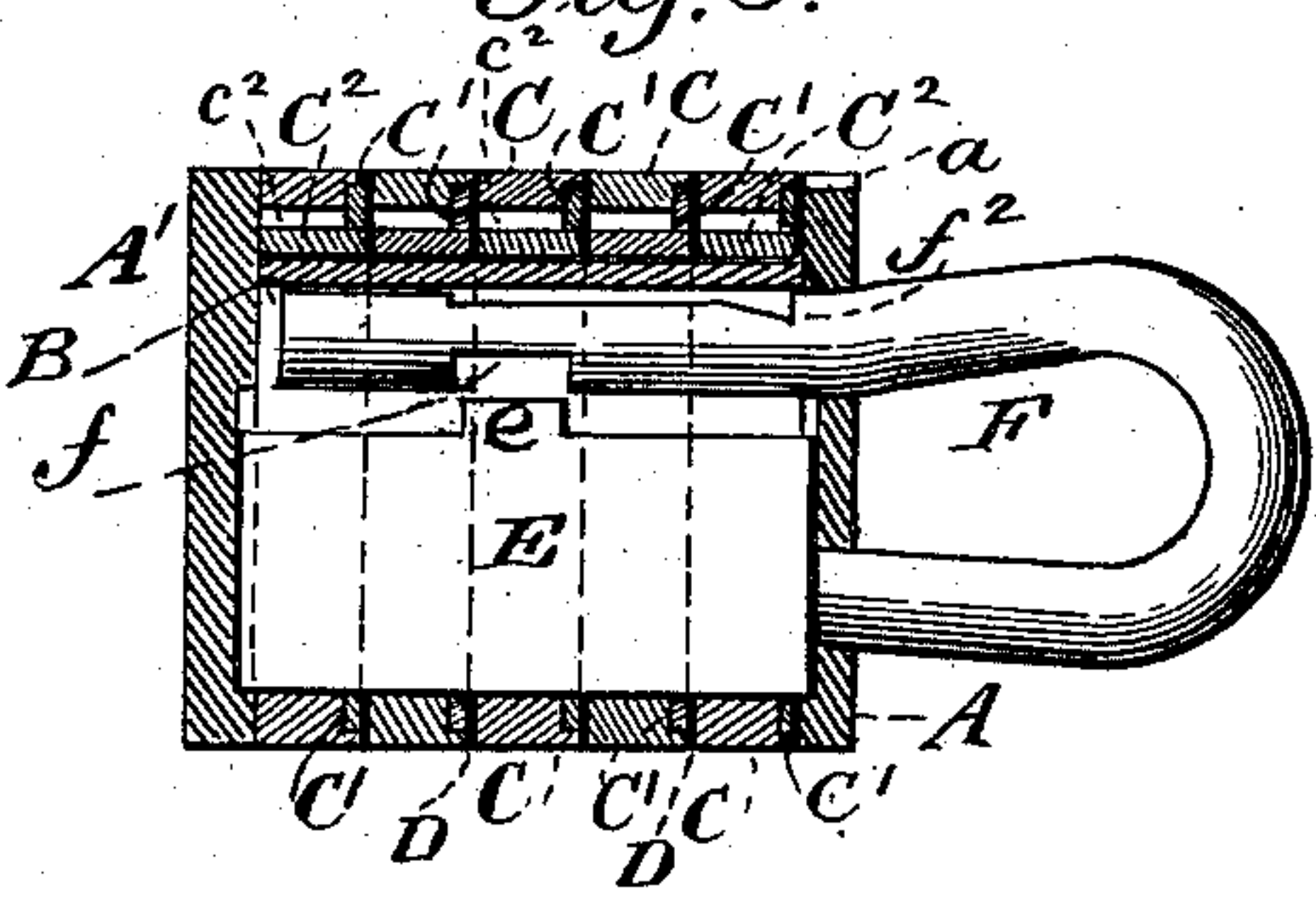


Fig. 4.

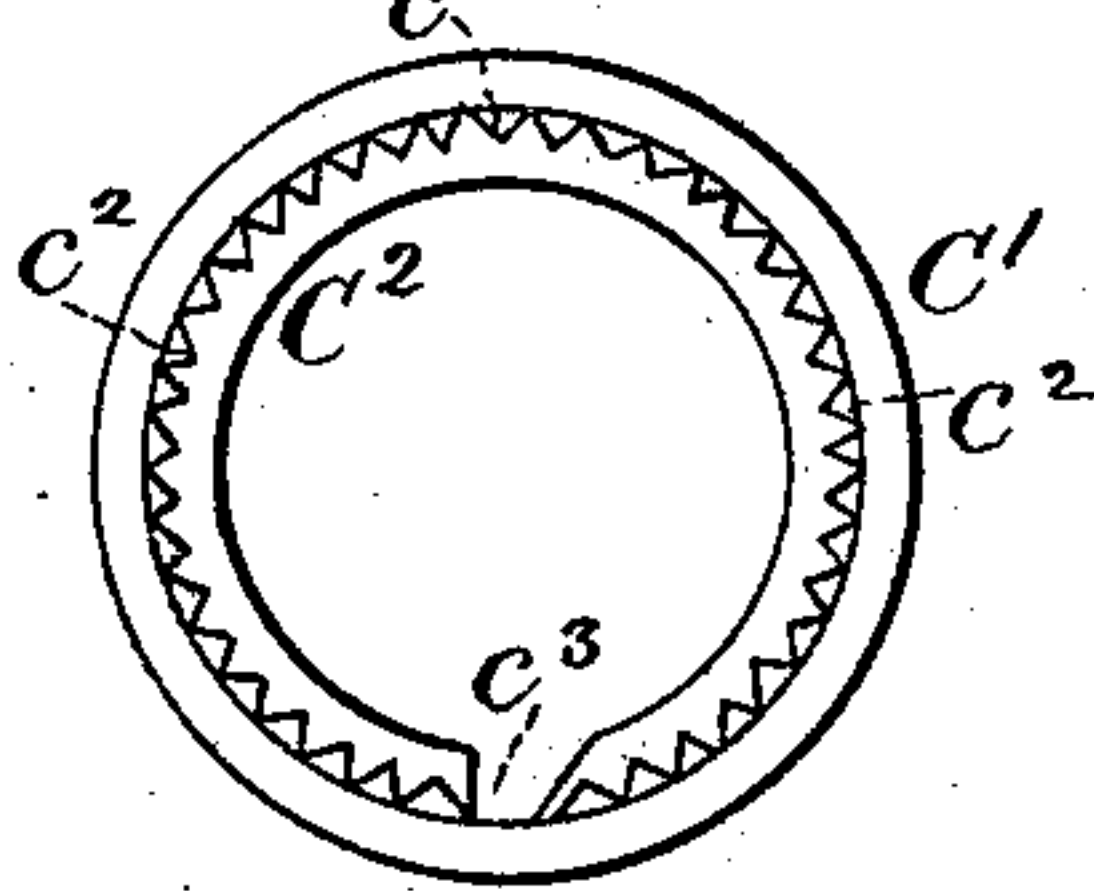


Fig. 5.

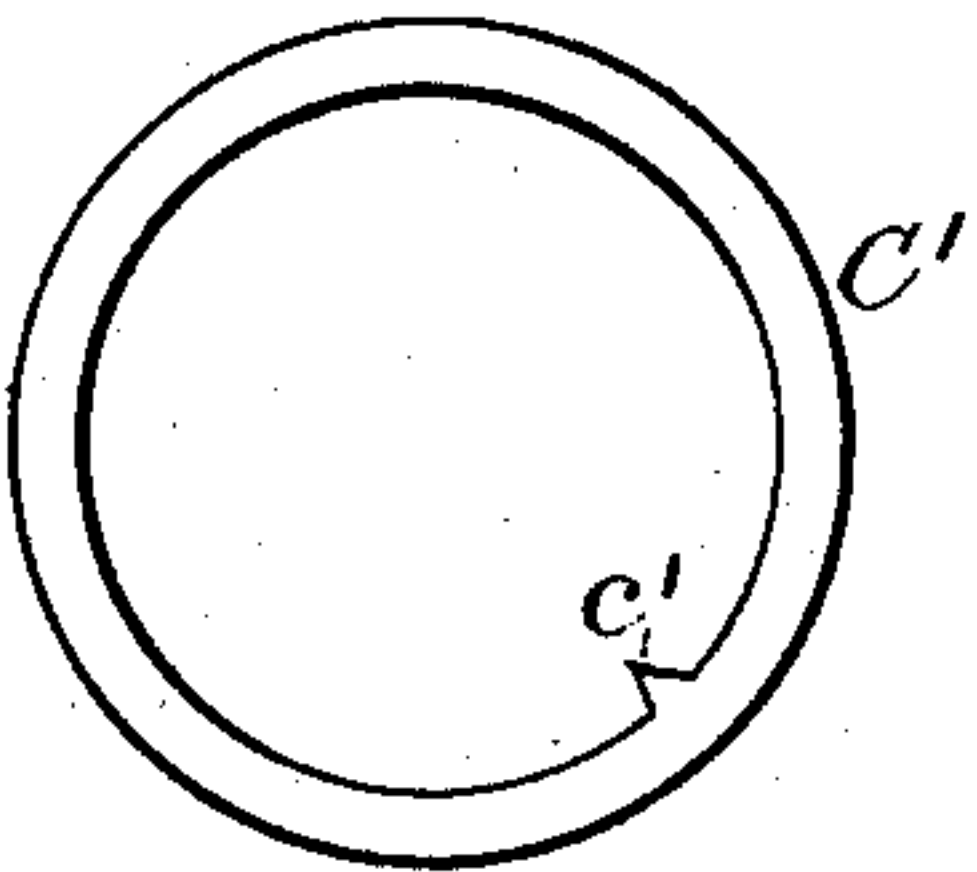


Fig. 6.

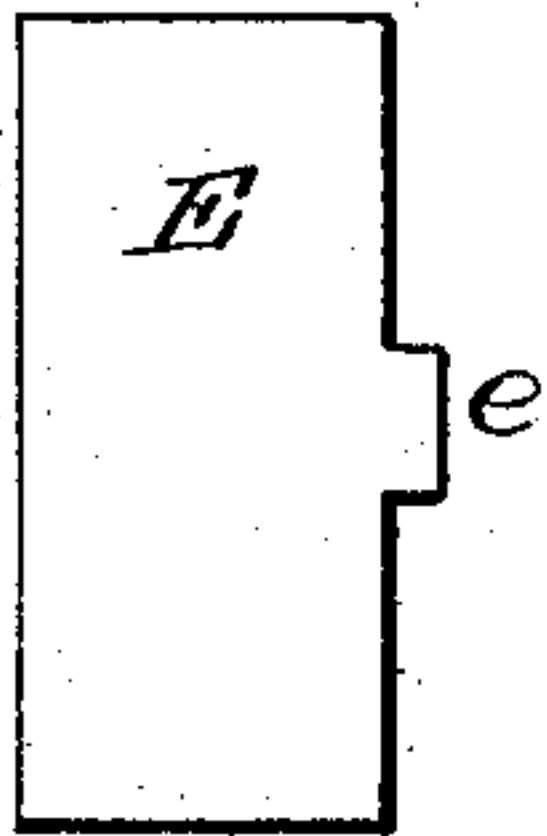
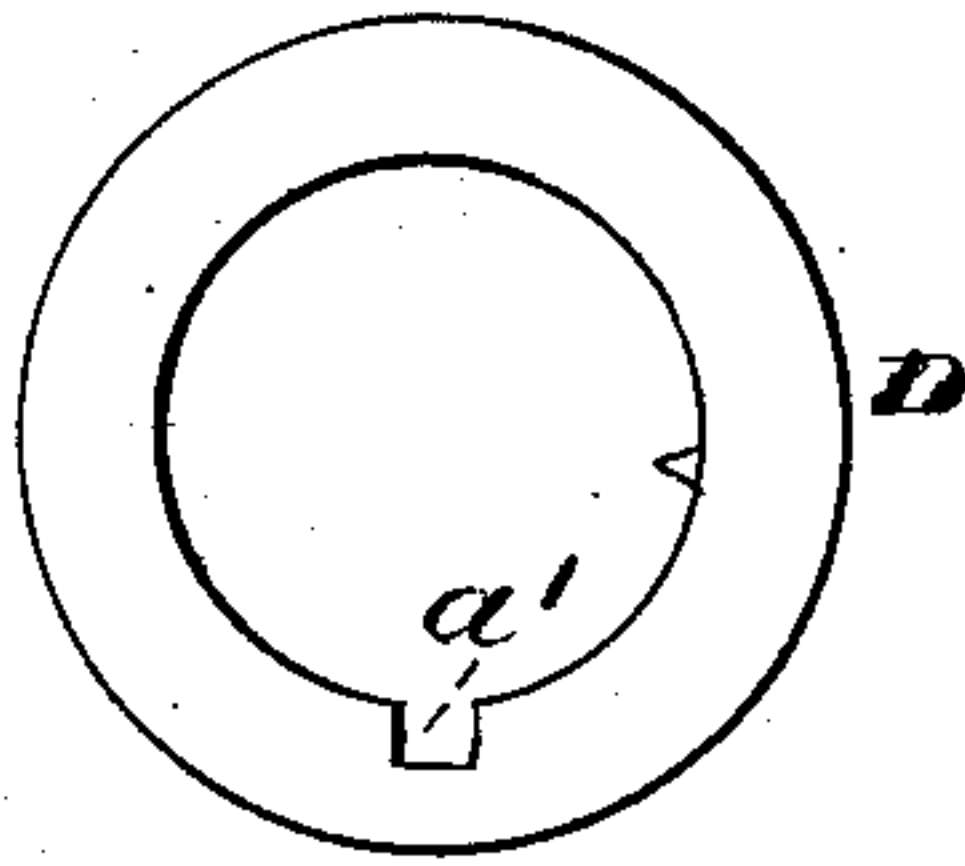


Fig. 7.



Witnesses.

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UNITED STATES PATENT OFFICE.

ANDREW RODEGARD, OF NEW RICHLAND, MINNESOTA.

PERMUTATION-PADLOCK.

SPECIFICATION forming part of Letters Patent No. 373,155, dated November 15, 1887.

Application filed July 28, 1887. Serial No. 245,549. (No model.)

To all whom it may concern:

Be it known that I, ANDREW RODEGARD, a citizen of the United States, residing at New Richland, in the county of Waseca and State of Minnesota, have invented certain new and useful Improvements in Permutation 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The special object of the invention is to make a padlock with tumblers, as hereinafter described.

Figure 1 is a perspective view of my padlock; Fig. 2, a similar view of the frame with the staple unlocked and the tumblers removed. Fig. 3 is a horizontal section of the padlock; Fig. 4, a plan view of one of the tumblers; Fig. 5, a similar view of the outer ring of the tumbler; Fig. 6, a similar view of the locking-bolt; Fig. 7, a similar detail view of the washer.

In the drawings, A A' represent two disks, which are held to a central core, B, by four screws, B', and between said disks are arranged the rotary tumblers C, more or less in number, but preferably five. These tumblers C are composed of two rings, C' C², of which the former is the outer one having an inside tooth, c', which engages the peripheral notches c² of the inner ring, C². On the outside of the rings C' are numerals from one to fifty, preferably, but always corresponding to the notches c², so that the tumblers C may be set at different combinations. The inner rings, C², are open at c³ to receive the bolt E when it falls through the opening b² in the core after all the tumblers have been carried round to the numbers to which they have been set. Then the stud e of the bolt falls into the notch f of the shackle F, so that the latter may be raised and removed from the staple usually employed.

In order to unlock the padlock, the same must be held horizontally with the notch a in

the disk A uppermost, and as soon as each tumbler has been turned to bring the set numbers in line the bolt E will drop and the padlock be unlocked, the openings c³ being all in line. The opening c³ in the middle tumbler is slanted on one side, and in order to lock, this tumbler is turned in the direction of the slant, when the bolt E will be pushed back into the shackle-notch f. The bolt E may be pushed back by a spring, so that the lock may be held when being unlocked in any position. It will be observed that there are notches a a', one in each of the washers D, and the bolt also works in these.

The screws B', which hold the disks to the core, are cut away at b', so that they will be locked when the shackle is locked, as the latter fits into said cut-away portions; hence they cannot be taken out with a screw-driver until the shackle is raised and turned, as shown in Fig. 2 of the drawings, so as to set the tumblers on any preferred combination. The notch f² is cut in the shackle on the long arm, which does not come out, so as to allow the two adjacent screws to be turned. The two screws near the long arm of the shackle are so arranged as to hold the shackle in its place, so as to work straight up and down.

Having thus described my invention, what I claim as new is—

1. In a padlock, the combination, with two disks, A A', notched at a and slotted at a', and the core B, grooved at b, of the tumblers C, formed of the notched open rings C², and the externally-notched rings C', having the inside teeth, c', the bolt E, having stud e, and the shackle F, having the notch f, all substantially as shown and described.

2. The combination, with the disks A A', and core B, of the screws B', having their heads cut away at b', and the shackle F, notched at f², whereby said screws may be locked and unlocked, as set forth.

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

ANDREW RODEGARD.

Witnesses:

THOMAS LAJORD,

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