M. B. MILLS.

Permutation Padlock.

No. 212,036. Patented Feb. 4, 1879.

Fig: 1.

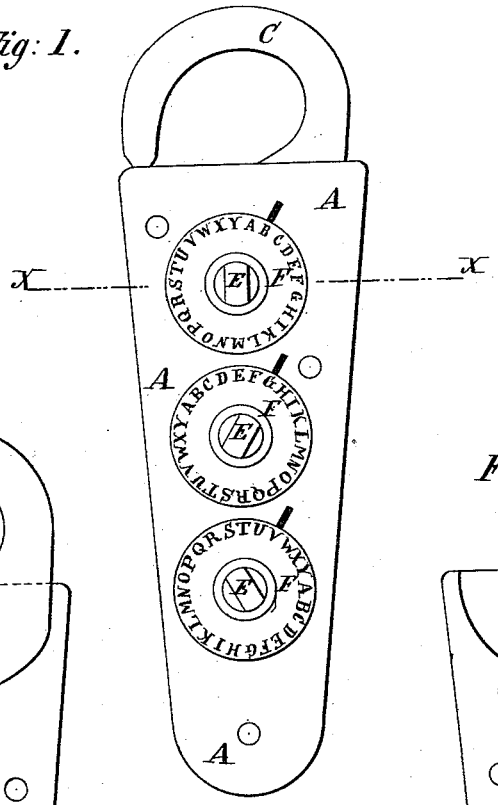


Fig: 2.

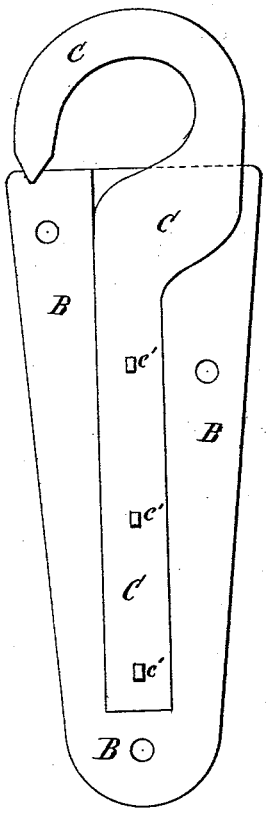


Fig: 3.

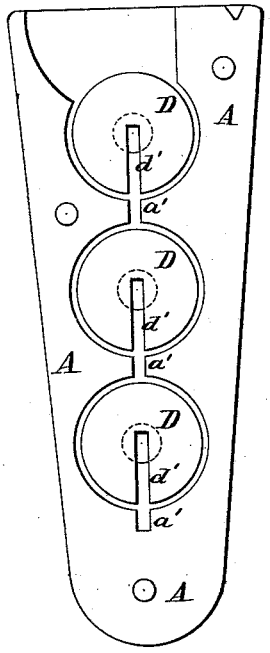
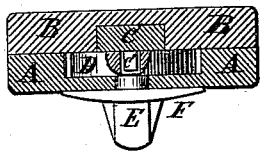


Fig: 4.



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MORTIMER B. MILLS, OF DE WITT, IOWA.

IMPROVEMENT IN PERMUTATION-PADLOCKS.

Specification forming part of Letters Patent No. **212,036**, dated February 4, 1879; application filed July 11, 1878.

To all whom it may concern:

Be it known that I, MORTIMER B. MILLS, of De Witt, in the county of Clinton and State of Iowa, have invented a new and useful Improvement in Combination-Padlocks, of which the following is a specification:

Figure 1 is a face view of my improved padlock. Fig. 2 is a detail view of the same, the face-plate and locking-disks being removed. Fig. 3 is a detail view of the inner side of the face-plate and locking-disks. Fig. 4 is a detail cross-section of the padlock, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish a combination-padlock which shall be simple in construction and convenient and reliable in use, not being liable to be opened by any one not having the combination.

The invention consists in the combination of the sliding hook provided with the pins, the disks provided with the slots, the pivots, and the index-disks with each other and the case, as hereinafter fully described.

A represents the face-plate, and B the back plate, of the case, which are secured to each other by rivets. The inner side of the back plate, B, is recessed longitudinally to receive the shank of the locking-hook C. To the forward side of the shank of the hook C are attached three (more or less) pins, *c'*, in such positions as to rest against the outer edges of three (more or less) disks, D, placed in recesses in the inner side of the face-plate A. The disks D have radial grooves or slots *d'* formed in them from their edges to a little past their centers, as shown in Fig. 3. The inner side of the face-plate A between the disks C, and at the outer side of the outer disk, has grooves *a'* formed in it to receive the pins *c'* when the lock is locked. The pivots E of the disks C pass out through the face-plate A, and their outer ends are flattened or have knobs attached to them for convenience in turning the disks D to lock and unlock the lock.

To the pivots E, at the outer side of the face-plate A, are attached disks F, which have letters, numerals, or other indices formed around their edges, to serve as guides, in connection with marks upon the face-plate A, in locking and unlocking the lock.

In the drawings the lock is represented as being set upon the combination "B G V."

The lock is unlocked by drawing the hook C outward, the pins *c'* entering the grooves *d'* of the disks D.

With this construction it will be impossible for any one unacquainted with the combination to adjust the disks in such positions that the hook may be drawn outward.

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

The combination of the sliding hook C, provided with the pins *c'*, the disks D, provided with the slots *d'*, the pivots E, and the index-disks F with each other and the case A B, substantially as herein shown and described.

MORTIMER B. MILLS.

Witnesses:
R. J. CROUCH,
F. COUNCILMAN.