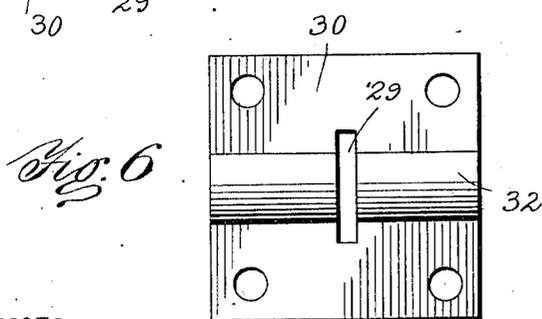
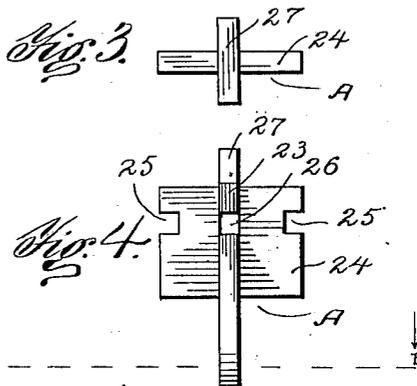
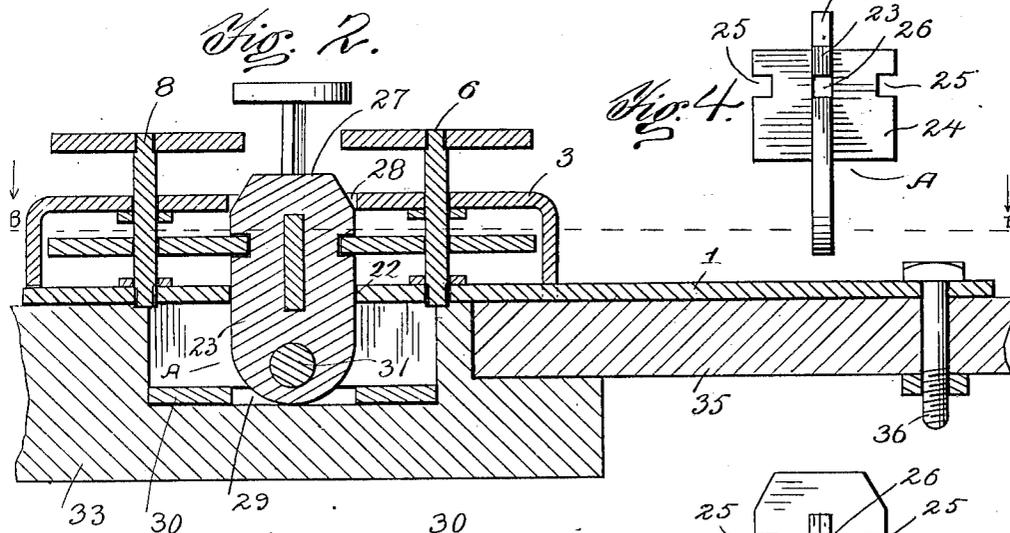
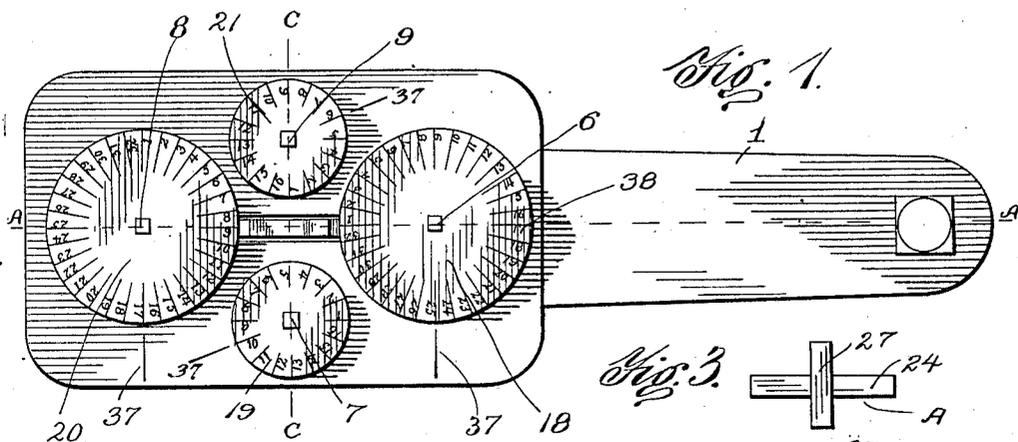


W. N. HANSON.
 COMBINATION LOCK.
 APPLICATION FILED MAY 24, 1911.

1,048,529.

Patented Dec. 31, 1912.

2 SHEETS—SHEET 1.



WITNESSES
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L. M. Williams

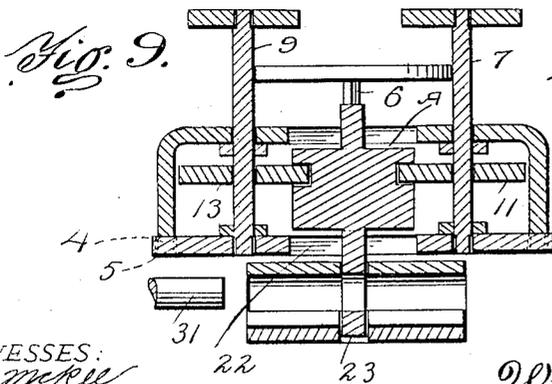
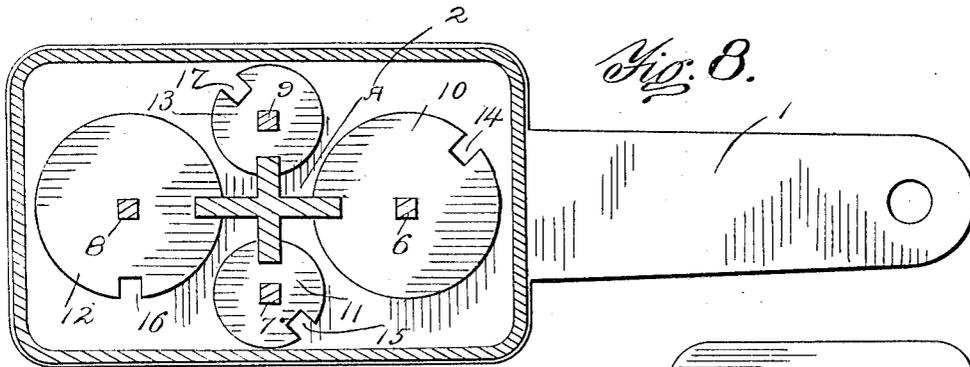
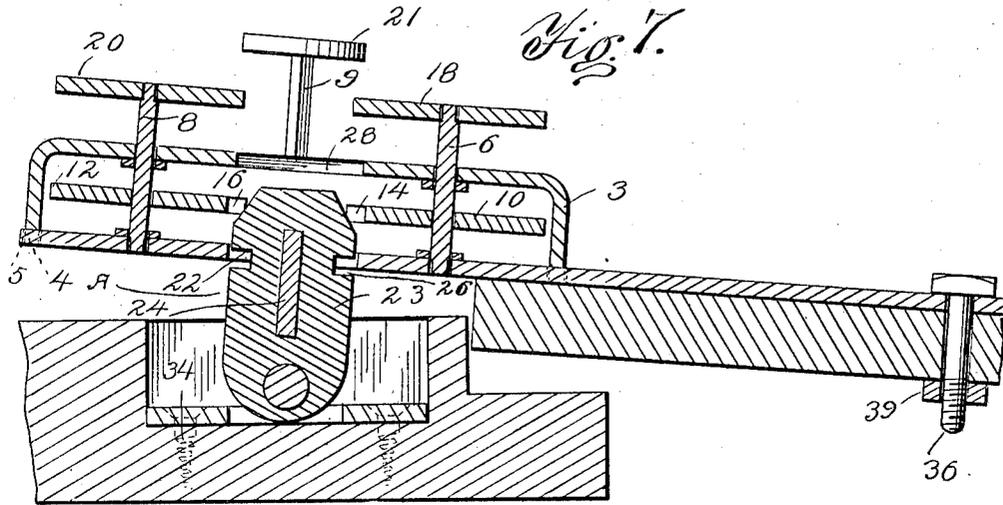
INVENTOR
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 By *Alex. J. Wedderburn, Jr.* Attorney

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2 SHEETS—SHEET 2.



WITNESSES:
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UNITED STATES PATENT OFFICE.

WILLIAM N. HANSON, OF MINDEN, NEVADA.

COMBINATION-LOCK.

1,048,529.

Specification of Letters Patent.

Patented Dec. 31, 1912.

Application filed May 24, 1911. Serial No. 629,104.

To all whom it may concern:

Be it known that I, WILLIAM N. HANSON, a citizen of the United States, residing at Minden, in the county of Douglas and State of Nevada, have invented certain new and useful Improvements in Combination-Locks, of which the following is a specification.

This invention relates to improvements in combination locks and has for its object to provide a very inexpensive, simple and yet strong and effective combination lock which cannot possibly be opened by any one not having the exact combination.

Another object of the invention is to provide a hasp combination lock. And still another object of the invention is to provide a combination lock so simply constructed that all of its parts may be stamped from sheet metal.

With the above and other objects in view I have invented the lock illustrated in the accompanying drawings in which—

Figure 1 is a top plan view of my improved lock. Fig. 2 is a vertical sectional view taken on line A—A of Fig. 1. Fig. 3 is a top plan view of a lock member. Fig. 4 is a side elevation thereof. Fig. 5 is another side elevation thereof. Fig. 6 is support for a lock engaging member. Fig. 7 is a view similar to Fig. 2, showing the lock partially removed from its engaging member. Fig. 8 is a horizontal sectional view taken on line B—B Fig. 2. Fig. 9 is a transverse vertical section taken on line C—C Fig. 1. Fig. 10 is an end elevation of a lock casing.

Like reference characters indicate like parts throughout the specifications and in the various views in the drawing in which 1 is a hasp having an enlarged end 2, upon which is mounted a casing 3, which is provided with projecting legs 4, adapted to enter the openings 5 in the hasp and be riveted thereto on its opposite side.

Mounted on the hasp, and within the casing, are a series of spindles 6, 7, 8 and 9, which carry disks 10, 11, 12 and 13, provided with recesses 14, 15, 16 and 17. Upon the outer ends of the spindles are fixedly mounted, graduated dials 18, 19, 20 and 21, by means of which the spindles may be rotated. The hasp 1 is provided with a cross-shaped opening 22 through which the lock engaging member A projects into the casing 3. The right angular projections 23 and 24 of the member A are provided with

slots 25 and 26 which are adapted to be engaged by the disks 10, 11, 12 and 13, thereby holding the two parts securely together. The end 27 of the member 23 is adapted to extend through a slot 28 in the casing 3, whereby said member is held rigid while the two parts are locked together. The member 23 is adapted to fit into a slot 29 in the support 30, and is held pivotally connected thereto by a pin 31 in the bent-up part of the support 30, which may be secured to a casing or door jamb 33 by screws 34. The lock is secured to a door 35 by means of a bolt 36, and held thereto by a nut 39. Indication points 37 are provided, whereby the graduations 38 on each of the dials may be directed to a predetermined position on the casing, in order to bring the slots in the disks into such relation to the lock engaging member that it may be withdrawn from the lock.

The pintles may be polygonous, and by changing either the disk or dial plate on a pintle the entire combination may be changed many times. Although this device is very simply constructed many thousand combinations may be obtained without a change of dies for stamping the disks or dials.

Having now described my invention, that which I claim to be new, and desire to procure by Letters Patent is:—

1. A hasp having a casing mounted on one end thereof, slotted disks in said casing, the opposing walls of said casing having slots therein, and an independently hinged member adapted to enter the slots in said casing and provided with means to engage the slots in said disks.

2. A hasp having a casing mounted on one end thereof, slotted disks in said casing, the opposing walls of said casing having slots therein, and an independently hinged member adapted to project into the slots of said casing, said member having oppositely disposed right angular projections adapted to engage the slots of said disk.

3. A hasp, a casing mounted thereon, a series of pintles having disks thereon mounted in said casing, and a member adapted to be projected into said casing centrally of said pintles and be engaged by said disks, said member being hingedly secured to a supporting plate, and having right angular slotted projections.

4. A hasp, a casing mounted thereon, a

series of pintles having disks thereon
mounted in said casing, and a member
adapted to be projected into said casing
centrally of said pintles, said member be-
5 ing hingedly secured to a supporting plate,
and having right angular slotted projec-
tions, each of said disks adapted to engage
one of said right angular portions, said cas-
ing having opposing slots therein whereby

said member may project therethrough and 10
be held in rigid connection therewith.

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

WILLIAM N. HANSON.

Witnesses:

M. MORRISON,
D. J. PARK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
