

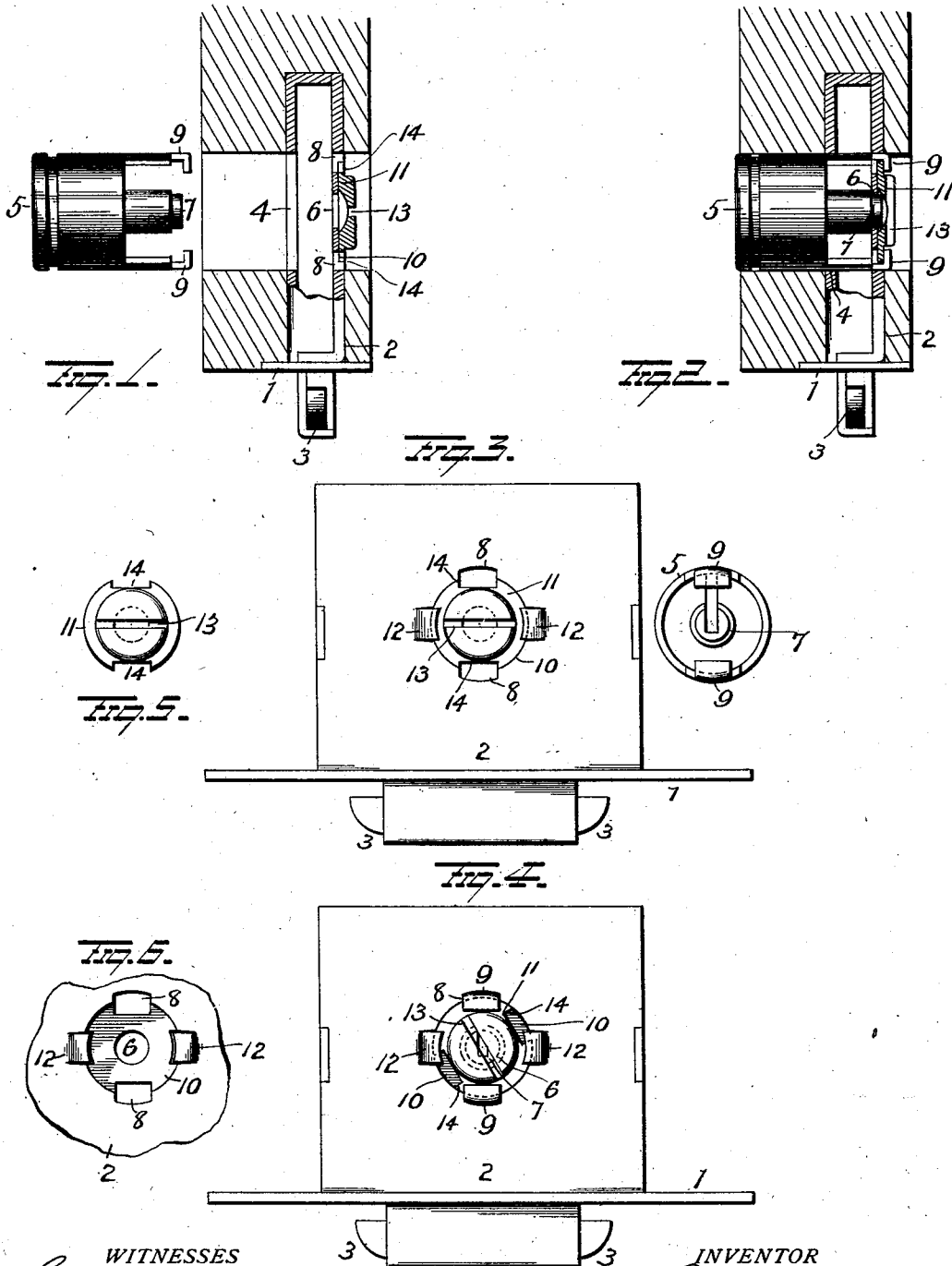
No. 721,802.

PATENTED MAR. 3, 1903.

J. A. HORNE.
CYLINDER LOCK.

APPLICATION FILED DEC. 9, 1902.

NO MODEL.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOSEPH A. HORNE, OF STAMFORD, CONNECTICUT, ASSIGNOR TO THE
YALE & TOWNE MANUFACTURING COMPANY, OF STAMFORD, CON-
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CYLINDER-LOCK.

SPECIFICATION forming part of Letters Patent No. 721,802, dated March 3, 1903.

Application filed December 9, 1902. Serial No. 134,508. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. HORNE, of
Stamford, in the county of Fairfield and State
of Connecticut, have invented certain new
5 and useful Improvements in Cylinder-Locks;
and I do hereby declare the following to be a
full, clear, and exact description of the inven-
tion, such as will enable others skilled in the
art to which it appertains to make and use the
10 same.

My invention relates to an improvement in
mortise cabinet-locks, the object being to pro-
vide a lock of this character with simple and
easily-operated means for detachably con-
15 necting the cylinder to the lock-casing; and
it consists in the parts and combinations of
parts, as will be more fully described, and
pointed out in the claims.

In the accompanying drawings, Figure 1 is
20 a sectional view showing the manner of as-
sembling the lock and casing. Fig. 2 is a
similar view showing the parts assembled.
Fig. 3 is a view of the rear side of the casing,
the key-cylinder being removed and shown at
25 the side. Fig. 4 is a rear view showing the
cylinder locked in place, and Figs. 5 and 6 are
detail views.

1 represents the face-plate carrying the cas-
ing 2, within which are mounted the spring
30 locking-bolts 3, of any approved construction.
The casing is provided in its front face with
a circular opening 4 to receive the inner end
of the key-cylinder 5 and in its rear face with
a smaller opening 6 to receive the rear or free
35 end of the key post or guide 7 and with two
rectangular openings 8, preferably on dia-
metrically opposite sides of the opening 6, for
the passage of the hooked projections 9 on
the rear or inner end of the cylinder 5. The
40 outer surface of the rear face of the casing is
provided with a depressed circular seat 10,
concentric with the opening 6, to receive the
locking-disk 11, which latter rests on or with-
in said seat 10 and is held in place by the
45 overhanging lips 12, which latter are struck
up from the rear face of the casing or secured
to said casing in any approved manner. These
lips 12 overlap the outer edge of the disk 11,
and while they permit of a free rotation of
50 the disk in or on its seat they absolutely pre-
vent displacement of said disk after the parts

have been once assembled. The disk 11 is
thickened at its center and provided on its
outer face with a slot 13 for the reception of a
screw-driver or other tool employed for turn- 55
ing the disk, and it is provided on its periph-
ery with diametrically opposite slots or cut-
away sections 14, through which the hooked
projections 9 on the cylinder 5 pass. When
the cylinder is placed in position, the projec- 60
tions 9 thereon pass through the rectangular
openings 8 in the rear plate of the casing and
through the slots or cut-away portions in the
disk 11, and when so placed by giving the
disk a part rotation the periphery of the lat- 65
ter takes under the hooks on the projections
9 and locks the cylinder in place. To remove
the cylinder, it is simply necessary to turn
the disk 11 until the cut-away portions there-
of aline with the rectangular openings 8 in the 70
rear plate of the casing, thus leaving the cyl-
inder free to be withdrawn. In applying this
lock to a desk-cover or door of a cabinet the
mortise is formed in the edge of the cover or
door and the cylindrical hole for the key-cyl- 75
inder is formed transversely through the door
from one side to the other. The lock is then
secured in the mortise and the cylinder to the
lock, the cylindrical hole through the cover
or door exposing the disk from the inner or 80
under side of the cover or door, so that when
the latter is open the disk can be reached from
the inner or under side.

I do not limit myself to any particular lock-
ing mechanism, but consider myself at lib- 85
erty to apply my improvements to a cylinder-
lock of any construction whatsoever. It is
also evident that slight changes and altera-
tions in the details of construction may be
resorted to without departing from the spirit 90
of my invention. Hence I would have it un-
derstood that I do not confine myself to the
exact details of construction shown, but con-
sider myself at liberty to make such changes
as fairly fall within the spirit and scope of 95
my invention.

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

1. In a cylinder-lock, the combination with 100
a lock-casing, and a movable locking-plate
carried on the rear or inner plate of said cas-

ing, of a key-cylinder having hooked projections which pass through the lock-casing, the hooks in the cylinder adapted to pass beyond the locking-plate and overlap the latter when the parts are in a locked position.

2. In a cylinder-lock, the combination with a lock-casing having an opening in its front face, and a movable disk carried on its rear face, of a key-cylinder adapted to enter the front face of the casing and having hooked projections which pass through the rear face, the said hooked projections being engaged by the movable disk.

3. In a cylinder-lock, the combination with a casing having an opening in its front face, a rotating disk mounted in a recessed seat in the rear face of the casing and means for holding said disk on its seat, of a key-cylinder adapted to pass through the opening in the front face of the casing and provided at its rear end with hooked projections, the hooks on the projections adapted to overlap the disk and be locked in place thereby.

4. In a cylinder-lock, the combination with a casing having an opening through its front face, and a plurality of smaller openings through its rear face, a circular disk resting

against the rear face of the casing and lips overhanging said disk and locking the same in place, of a key-cylinder passing through the front face of the casing and provided with hooked projections which pass through the smaller openings in the rear face of the casing, and overlap the disk when the latter is turned.

5. In a cylinder-lock, the combination with a casing having an opening through its front face and a plurality of smaller openings through its rear face, and a rotating disk mounted on the outer face of the rear plate of the casing and provided with slots in its periphery, of a key-cylinder provided at its rear or inner end with hooked projections which pass through the openings in the rear plate of the casing and through the slots in the disk and are locked in place by a partial rotation of said disk.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOSEPH A. HORNE.

Witnesses:

SCHUYLER MERRITT,

NATHAN G. CHATTERTON.