

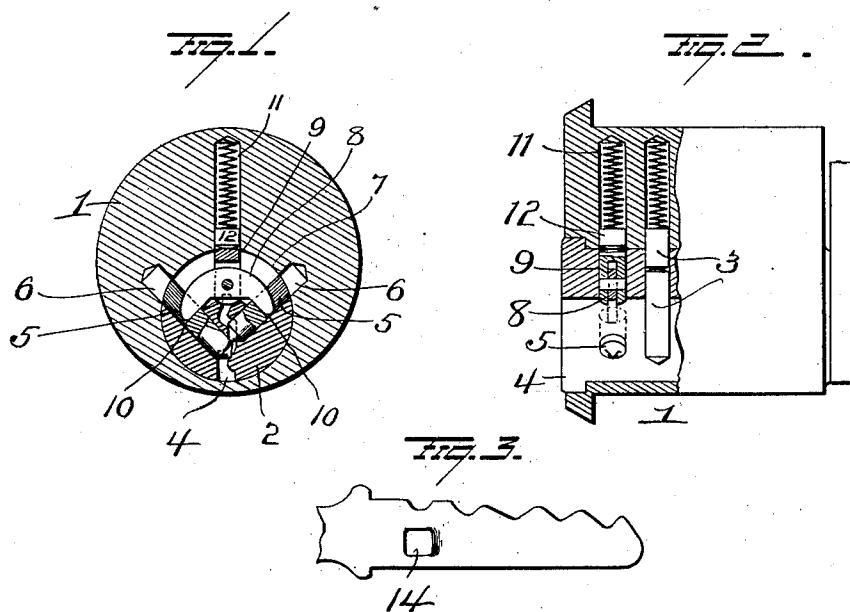
No. 758,026.

PATENTED APR. 19, 1904.

W. H. TAYLOR.
PIN LOCK.

APPLICATION FILED DEC. 18, 1903.

NO MODEL.



WITNESSES
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PIN-LOCK.

SPECIFICATION forming part of Letters Patent No. 758,026, dated April 19, 1904.

Application filed December 18, 1903. Serial No. 185,719. (No model.)

To all whom it may concern:

Be it known that I, WARREN H. TAYLOR, of
Stamford, in the county of Fairfield and State
of Connecticut, have invented certain new and
5 useful Improvements in Pin-Tumbler Locks
with Plurality of Curtains; and I do hereby
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 ap-
10 pertains to make and use the same.

My invention relates to an improvement in
pin-tumbler locks and was designed as an im-
provement on the lock shown in my pending
application, Serial No. 166,625, filed July 22,
15 1903.

In my pending application I disclose an ordi-
nary pin-tumbler lock having a single guard
or curtain normally obstructing the key-path
in advance of the tumblers and designed to
20 lock the rotary plug to the lock-case or cyl-
inder upon the introduction of a key or pick-
ing-tool and to release said plug when the
proper key for the lock has been fully insert-
ed and also a plurality of independently-act-
25 ing guards or curtains.

The object of the present invention is to more
fully close the key-slot in advance of the pin-
tumblers, and thus practically prevent access to
any part of the pin-tumblers without first dis-
30 lodging the guard or curtain, and also to pro-
vide means for locking the plug to the case at
two or more points when the guard or curtain
is disturbed; and my invention consists in a
guard or curtain comprising a plurality of in-
35 dependently-movable members and a guard
pin or tumbler connected to and actuated by
said members of the guard or curtain.

My invention further consists in the parts
and combination of parts and in the details
40 of construction, as will be more fully de-
scribed, and pointed out in the claims.

In the accompanying drawings, Figure 1 is
a view in transverse section of a lock embody-
ing my invention. Fig. 2 is a view in eleva-
45 tion, partly in section, of the same; and Fig.
3 is a view of the key.

1 represents the tumbler-case of a pin-tum-
bler lock, 2 the plug, and 3 the ordinary two-

part spring-actuated pin-tumblers which nor-
mally lock the plug against movement in the 50
case. This plug is provided with the usual
key-slot 4.

Formed in the plug 2 are two cylindrical re-
cesses, in which are mounted the two cylin-
drical guards or curtains 5. The recesses in 55
which the guards or curtains are mounted
communicate with the key-slot 4 and are on
opposite sides of said slot, one being in a plane
above the other, so that when the two guards
5 are in their normal positions they cut off 60
practically all that portion of the key-slot be-
low the free ends of the pin-tumblers 3 and a
portion of the slot above the free ends of the
tumblers, thus rendering it impossible to get
at the free ends of the pin-tumblers without 65
disturbing at least one member 5 of the two-
part guard or curtain.

Formed in the case 1 in line with the re-
cesses in the plug 2, carrying the members 5
of the guard or curtain, are recesses 6, into 70
which the upper ends of the members 5 of the
guard or curtain are projected when disturbed
by the introduction of a key or other device
into the key-slot. These members 5 are of 75
such length that when in their normal positions
they rest wholly within the plug, but which
when disturbed or moved project more or less
into the case and lock the plug against rota-
tion.

Formed in the plug above the key-slot is 80
the transverse slot 7, in which rests the piv-
oted lever or yoke 8 and the guard pin or
tumbler 9. The lever or yoke 8 is pivoted
between its ends to the guard pin or tumbler
9 and bears at its free ends on shoulders 10, 85
formed by slotting or recessing the members
5 of the guard or curtain. The guard pin or
tumbler 9 rests in the plane of recess 11,
formed in the case 1, and hence when moved
upwardly by the outward movement of either 90
member of the guard or curtain enters said
recess 11 and assists in locking the plug against
rotation. Located within recess 11 and bear-
ing on the guard-tumbler 9 is the spring-
pressed follower 12, the position of the adja- 95
cent ends of the follower and tumbler being

in the plane of the periphery of the plug, so as to permit of the free rotation of the plug when the pin-tumblers 3 of the lock have been set by the introduction of the proper key.

5 With this construction it will be seen that if either member 5 of the guard or curtain be moved by the engagement therewith of a key or tool it will be moved upwardly and project into its slot 6. This upward movement of one
10 member 5 of the guard or tumbler will cause lever or yoke 8 to fulcrum on the shoulder 10 of the other member 5, and thus force or lift guard-tumbler 9 into recess 11 in the case, thus locking the plug at two points. If, how-
15 ever, both members 5 of the curtain be engaged by the key or tool, they will both be forced outwardly into engagement with the case and at the same time lift lever or yoke 8 and its guard-tumbler 9, thus forcing the
20 latter into recess 11 and locking the plug at three separate points, the spring above follower 12 serving to restore all the parts to their normal positions when the obstruction to the return of the members 5 of the guard
25 or curtain has been removed.

The key for this lock is shown in Fig. 3 and is provided at a point below and in rear of the bittings with a recess or slot 14, which when the key is fully inserted receives the adjacent
30 ends of the two members of the guard or curtain and releases the plug from the case.

It is evident that many numerous changes might be resorted to in the relative arrangement of parts herein shown and described
35 without departing from the spirit and scope of my invention. Hence I would have it understood that I do not wish to confine myself to the exact construction of parts herein shown and described; but,

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

1. In a pin-tumbler lock, the combination with a tumbler-case, plug, and pin-tumblers
45 carried by said plug, of a guard or curtain composed of a plurality of parts carried by the plug, each part designed to be projected into a recess in the case when moved by the insertion of a key or other instrument.

50 2. In a pin-tumbler lock the combination with a tumbler-case, plug and pin-tumblers carried by the plug, of a guard or curtain carried by the plug and adapted to be projected into a recess in the case, and a guard-tumbler
55 also adapted to be moved into a recess in the case by the movement of the guard or curtain.

3. In a pin-tumbler lock the combination with a tumbler-case, plug, and pin-tumbler,
60 of a guard-tumbler carried by the plug and adapted to engage the case, and a guard or

curtain obstructing the key-slot in the plug and connected to the guard-tumbler.

4. In a pin-tumbler lock the combination with a tumbler-case, plug and pin-tumblers, of a guard-tumbler carried by the plug and
65 adapted to enter a recess in the case, and a plurality of guards or curtains normally obstructing the key-slot in the plug and connected to the guard-tumbler.

5. In a pin-tumbler lock the combination 70 with a tumbler-case, a plug and pin-tumblers, of a guard-tumbler carried by the plug and adapted to enter a recess in the case a plurality of guards or curtains normally obstructing the key-slot in the plug and connected to the
75 guard-tumbler, of a spring tending to hold the parts in their normal position.

6. In a pin-tumbler lock the combination with a tumbler-case, plug and pin-tumblers, of a guard-tumbler carried by the plug and
80 adapted to enter a recess in the case, a plurality of guards or curtains normally obstructing the key-path in the plug and adapted when moved to be projected into recesses in case, and means connecting the guards or curtains
85 and the guard-tumbler, whereby when either guard or curtain is moved the guard-tumbler will also move into its recess in the case.

7. In a pin-tumbler lock, the combination with a tumbler-case, a plug and pin-tumblers, 90 of a guard-tumbler carried by the plug and adapted to enter a recess in the case, a plurality of guards or curtains normally obstructing the key-path in the plug and adapted when moved to be projected into recesses in the case,
95 means connecting the guards or curtains and the guard-tumbler, whereby when either guard or curtain is moved the guard-tumbler will also be moved into its recess in the case and a spring tending to hold the parts in their normal positions.
100

8. In a pin-tumbler lock, the combination with a case, a plug, and pin-tumblers, of a guard-tumbler carried by the plug and adapted
105 to enter a recess in the case, a plurality of guards or curtains normally obstructing the key-path in the plug and adapted when moved to be projected into recesses in the case, a yoke or lever pivoted to the guard-tumbler and resting at its ends on shoulders formed on the
110 guards or curtains and a spring tending to hold the parts in their normal positions.

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

WARREN H. TAYLOR.

Witnesses:

SCHUYLER MERRITT,
PATRICK KEEFFE.