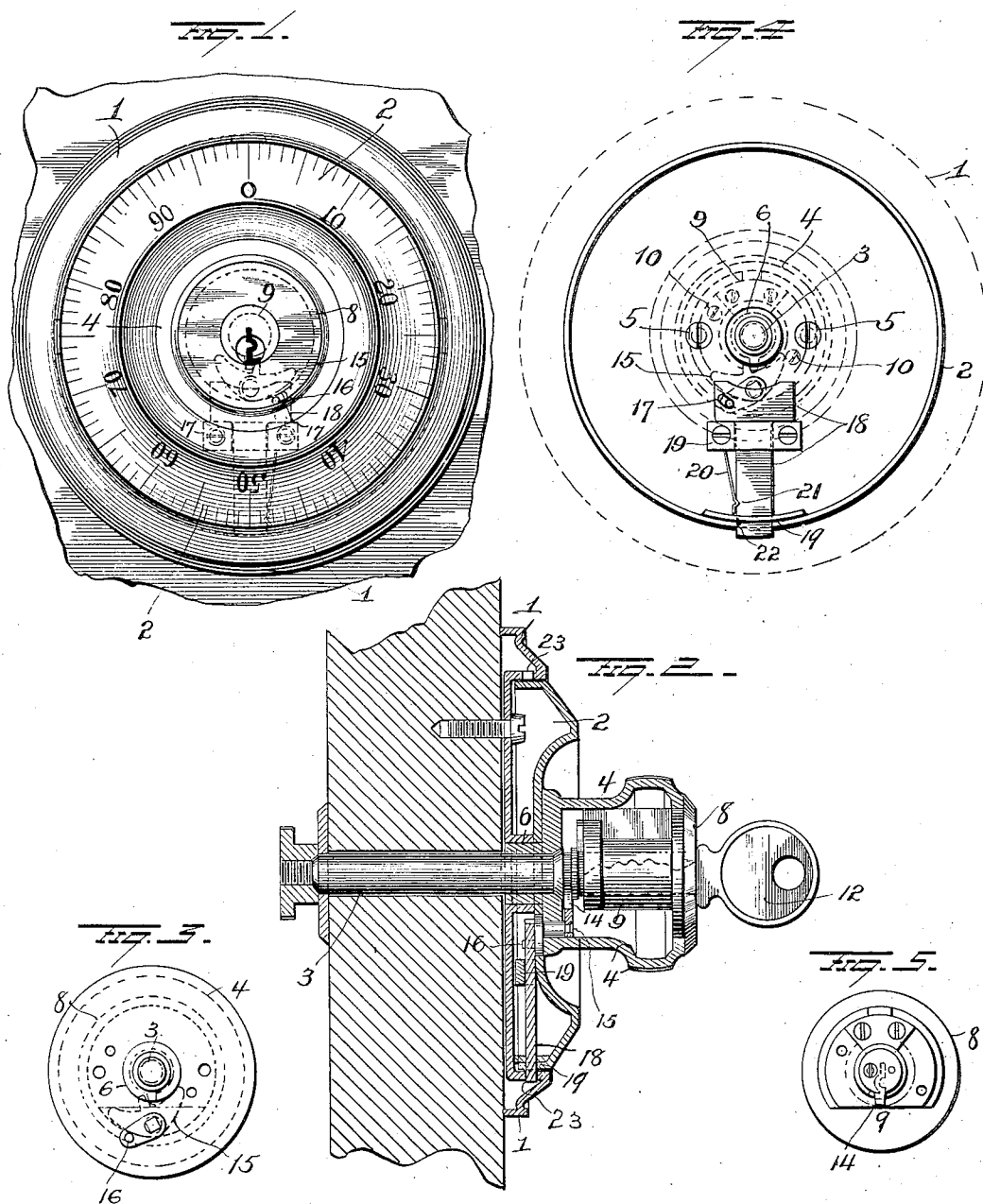


W. H. TAYLOR.
DIAL LOCK.
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1,042,838.

Patented Oct. 29, 1912.



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DIAL-LOCK.

1,042,838.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WARREN H. TAYLOR, a citizen of the United States, residing at Stamford, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Dial-Locks; 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 appertains to make and use the same.

My invention relates to an improvement in dial locks, and it consists in means actuated by a key lock carried by the dial for locking the latter against rotation, thus preventing any manipulation of the tumblers or bolt work while the dial is locked.

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

In the accompanying drawings, Figure 1 is a view in plan of my improvement. Fig. 2 is a view in section through the dial and its knob or thumb turn and bolt, and showing the key lock in elevation. Fig. 3 is an inner end view of the dial knob or thumb turn; Fig. 4 is a view of the inner face of the dial showing the locking bolt and Fig. 5 is a detached view of the lock cylinder.

1 represents a dial ring and 2 the dial mounted to turn therein and provided with a spindle 3, which is rigid with the dial, and which actuates the bolt locking and releasing mechanism, which latter may be of any construction. The dial 2 is provided with a knob or thumb turn 4, which, in the present instance, is hollow and is secured to the dial by the rivets 5, and is provided with a sleeve 6 which passes through a flanged opening in the ring 1, and forms an enlarged bearing and support for the spindle 3. The outer open end of the knob or thumb turn 4, is closed by the outer plate 8 of the pin tumbler lock 9, which is secured to the base of the knob or thumb turn by the screws 10.

The pin tumbler lock 9 is provided with the usual cylinder and plug, the latter adapted to be rotated by a key 12, and the plug carries a pin 14 which engages and rocks the crank lever 15 mounted to turn in the base of the knob 4. One member or

arm of the crank lever rests against the inner face of the base of the knob 4, and the other member or arm rests against the outer face of said base and is provided with a pin 16 which rests and moves within an elongated slot 17 in the bolt 18. This bolt is slidingly mounted in bearings 19 carried by the dial 2, and is held against accidental sliding movement by the spring 20 having a rib or shoulder 21 adapted to enter notches 22 in the side edge of the bolt and positively lock the latter against accidental movement. The end of the bolt normally rests flush with the periphery of the dial so as not to interfere with the rotation of the dial when the bolt is retracted, but which, when the bolt is projected, enters a recess or keeper 23 in the ring 1 and locks the dial against rotation. In the present instance I have shown four keepers located ninety degrees apart, but I may use more or less, hence it will be seen that by inserting and turning the key, and if necessary rotating the dial until the bolt aligns with a keeper, the dial may be locked against any turning movement, thus increasing to a material extent, the safety of the lock.

I would have it understood that I do not confine myself to the details of the mechanisms intermediate the inner end of the plug and the bolt for actuating the latter, but claim broadly any connecting mechanism whereby a rotation of the key plug will actuate the bolt.

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

1. In a dial lock, the combination of a dial, a ring embracing the edge of the dial and having a keeper, and a key lock and bolt carried by the dial, the said bolt adapted to be actuated by the key lock whereby the dial may be locked to and released from the ring.

2. In a dial lock, the combination of a dial having a hollow knob or thumb turn, a ring embracing the periphery of the dial and provided with a keeper, a bolt carried by the dial and adapted to be projected toward the keeper and a key lock within the knob or thumb turn for actuating the bolt.

3. In a dial lock, the combination of a
dial having a hollow knob or thumb turn,
a ring encircling the periphery of the dial,
a pin tumbler lock within the knob and a
5 bolt carried by the dial and actuated by the
lock and adapted to engage a keeper formed
in the ring.

In testimony whereof I have signed this
specification in the presence of two subscrib-
ing witnesses.

WARREN H. TAYLOR.

Witnesses:

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CHAS. E. VAIL.