

O. ADAMS.

CLOCK.

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1,009,880.

Patented Nov. 28, 1911.

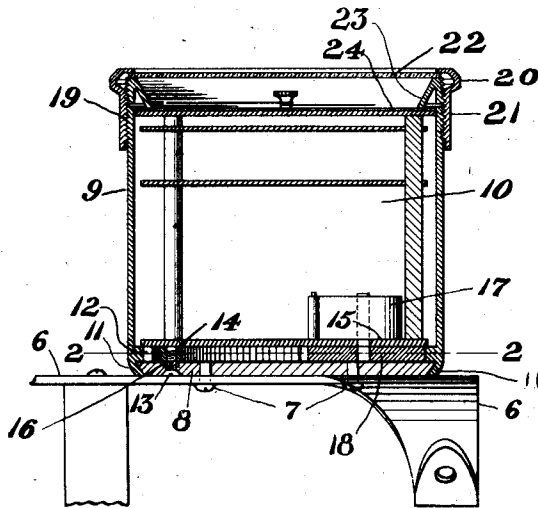


FIG. 1.

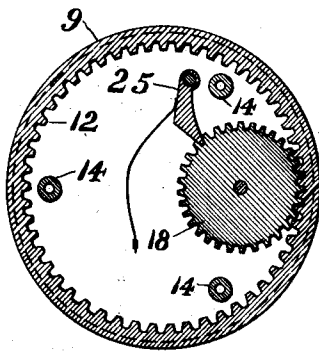


FIG. 2.

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Witnesses

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# UNITED STATES PATENT OFFICE.

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CLOCK.

1,009,880.

Specification of Letters Patent. Patented Nov. 28, 1911.

Application filed October 11, 1910. Serial No. 586,571.

*To all whom it may concern:*

Be it known that I, OTTO ADAMS, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Clocks, of which the following is a specification.

This invention relates to clocks, and particularly to clocks of the keyless type, in which the spring is wound by rotation of a casing containing the works, avoiding the necessity for a key which may become lost and also avoiding a key hole which might let in dust or water, the case being so constructed that it is practically dust tight.

The clock will be found particularly useful on motor vehicles and in other positions exposed to the weather.

The invention is an improvement or modification of the clocks shown in the U. S. patents to Walker No. 904581 and Phinney & Adams No. 967428.

In the accompanying drawings—Figure 1 is a central longitudinal section of the clock. Fig. 2 is a section on the line 2—2 thereof.

Referring specifically to the drawings, 6 indicates a bracket, fixture or other support on which the clock is mounted and to which it is fastened as by screws 7 which extend into a back plate 8 forming the back of the clock case. This plate is therefore fixed with respect to the movable parts of the case. These movable parts include a cylindrical casing 9 which incloses the works 10 which are illustrated more or less diagrammatically, since the particular construction thereof, except as otherwise indicated hereinafter, is unimportant. The plate 8 is circular, and the casing 9 may be turned thereon, said casing being spun over at its rear end, as indicated at 11, behind the rabbeted edge of the back plate, which is thus confined between the flange 11 and a ring gear 12 made integral with or fastened to the inside of the casing near the rear or lower end thereof. The joint between the back plate and the casing is practically dust tight, and the back plate, by reason of its engagement between the flange 11 and the gear 12, holds the casing in position. The movement is fastened to the back plate by means of screws 13 which extend through the back plate into pillars 14 on the rear plate 15 of the movement, said pillars being

preferably countersunk into the back plate as indicated at 16 to form a rigid joint. The arbor of the spring barrel 17 projects through the rear plate 15 and is provided with a gear 18 which meshes with the ring gear 12, said gear 18 being located between the back plate 8 and the rear plate 15 of the movement.

At its front end the casing 9 is threaded as at 19 to receive the ring 20 screwed thereon, the ring having a comparatively wide flange 21 which forms a joint with the casing. The threads are cut in a direction similar to that required to wind the clock, and the ring carries the glass 22 and an inner rim 23 which projects to easy contact with the dial plate 24 of the movement, so that it assists in holding the movement steady. To wind the clock the winding ring 20 is grasped and turned, and with it the casing 9 carrying the ring gear 12 which rotates the spur gear 18 and winds the spring, a suitable detent 25 being provided to prevent back slip. The case may be opened and the works removed by unscrewing the ring 20 and taking out the screws 13.

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

1. The combination of a relatively fixed back plate, a movement fixed thereto, and an outer casing inclosing the movement and geared to the spring thereof, said casing being rotatably mounted on and in holding engagement at its rear end with the outer edge of the back plate.

2. The combination of a relatively fixed circular back plate, a movement fixed thereto, and an outer casing geared to the spring to wind the same when the casing is turned, said casing being rotatable on the back plate and having a flange at its rear end engaging behind the edge of said plate and supporting said casing thereon and preventing removal of the casing from the back plate.

3. The combination of a relatively fixed circular back plate, a movement fastened thereto, and a casing inclosing the movement, said back plate and casing having a flange and groove engagement with each other at the rear end of the casing and the outer edge of the back plate, permitting the casing to be turned with respect to the back plate and preventing removal of the former from the latter.

4. The combination of a relatively fixed  
circular back plate, a movement fixed there-  
to, and an outer casing having an internal  
ring gear meshing with the spring gear of  
5 the movement, and an inwardly projecting  
flange, the edge of the plate being embraced  
between said ring gear and flange.

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

OTTO ADAMS.

Witnesses:

FRED S. PHINNEY,  
EDWARD L. SWAIN.

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

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