

904,581.

W. J. WALKER.
CLOCK CASE.
APPLICATION FILED MAR. 14, 1908.

Patented Nov. 24, 1908.

Fig. 1.

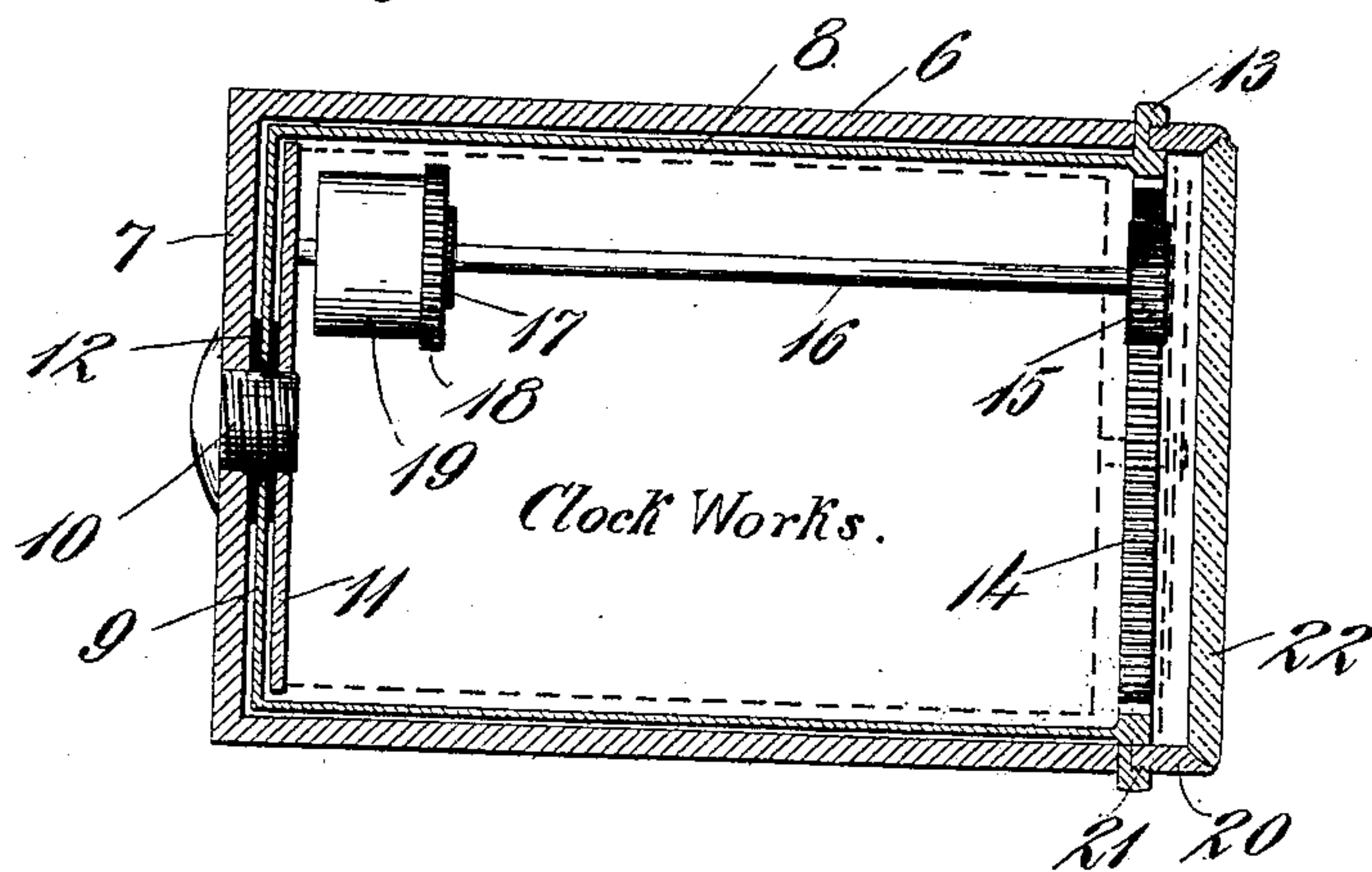
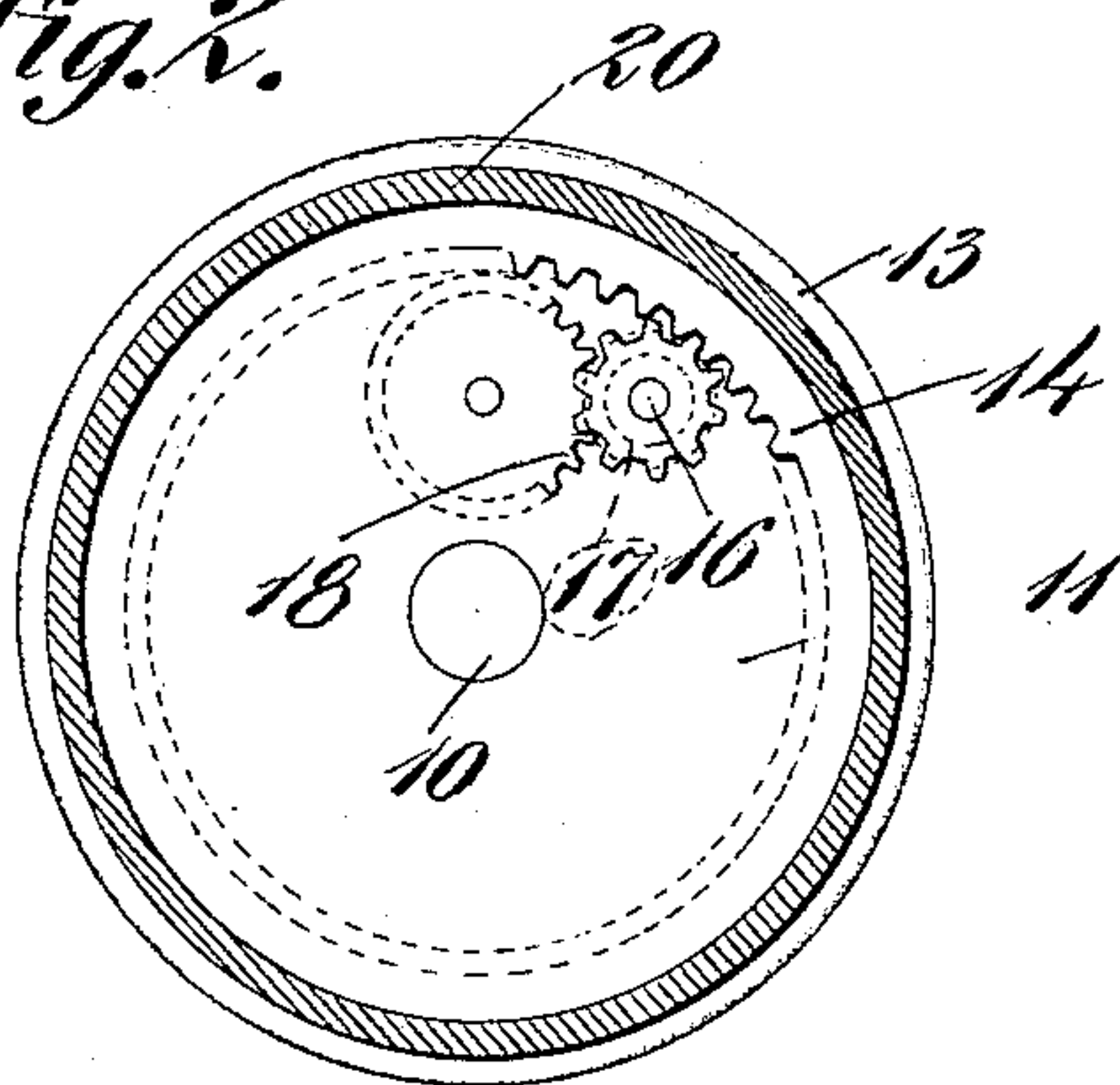


Fig. 2.



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UNITED STATES PATENT OFFICE.

WALTER J. WALKER, OF BOSTON, MASSACHUSETTS.

CLOCK-CASE.

No. 904,581.

Specification of Letters Patent.

Patented Nov. 24, 1908.

Application filed March 14, 1908. Serial No. 421,169.

To all whom it may concern:

Be it known that I, WALTER J. WALKER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Clock-Cases, of which the following is a specification.

This invention is a clock case, and it is particularly useful in connection with clocks and timepieces which are exposed to the weather, such as those on automobiles, trolley cars, and the like.

The object of the invention is to form a dust and water proof clock case which can remain permanently closed and which does not have to be opened in order to wind the clock. The case is provided with a rotary winding gear which can be turned to wind the clock within the same, the case having nevertheless a dust and water proof joint.

The invention is illustrated in the accompanying drawings, in which

Figure 1 is a longitudinal section. Fig. 2 is a cross section.

Referring specifically to the drawings, 6 indicates an outer circular case or tube closed at one end, as at 7. Located within this, at a working fit, is an inside case or tube 8 which is also closed at one end, as at 9. This tube 8 is rotatable within the outer case, and the ends 7 and 9 of both cases have at the center thereof a hole through which a screw 10 extends, and this screw engages in and holds the back plate 11 of the clock movement and thereby holds the movement in position in the case. The joint around the hole in the inner case is packed by a suitable packing 12 of chamois or the like, so that water cannot enter around the screw.

The front end of the inner case 8 is soldered to a ring 13 which has an internal gear 14 which meshes with a pinion 15 on the end of the spindle 16 which has a pinion 17 meshing with the gear 18 of the main spring, the barrel of which is indicated at 19. The other parts of the movement are outlined or indicated in dotted lines, as the particular construction thereof is immaterial to the in-

vention. The bezel 20 is screwed into a groove 21 in the outer edge of the winding ring 13, and the bezel holds the glass 22 through which the face of the clock can be seen.

As will be seen, there is no open or leaky joint into the inner cylinder 8 and consequently water cannot enter the same. It does not have to be opened, since by turning the milled ring 13 the clock can be wound. Nevertheless, in case of necessity the works can be removed by unscrewing the bezel and removing the screw 10. When the ring 13 is turned the case 8 also turns, but the outer case 6 remains fixed and so does the clock movement, the latter being supported, as stated, by the screw 10, which is made heavy for that reason. The clock is dust and water proof, the only joint being around the screw at the center of the back and this is protected by water-tight packing.

Obviously various modifications of the invention may be made, within the scope and spirit thereof.

I claim:

1. A clock case comprising outer and inner cylindrical casings, the latter being rotatable within the former and provided at the front end with a winding gear for the clock movement, and a support for said movement projecting from the outer casing and through the rear end of the inner casing at the axis thereof.

2. A clock case comprising two cylindrical casings closed at the rear ends, one of which fits and is rotatable within the other, the inner casing having a winding ring gear and glass at the front end, a pivot screw extending through the rear ends of the casings at the center thereof and supporting the clock movement, and packing between the screw and the inner casing.

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

WALTER J. WALKER.

Witnesses:

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