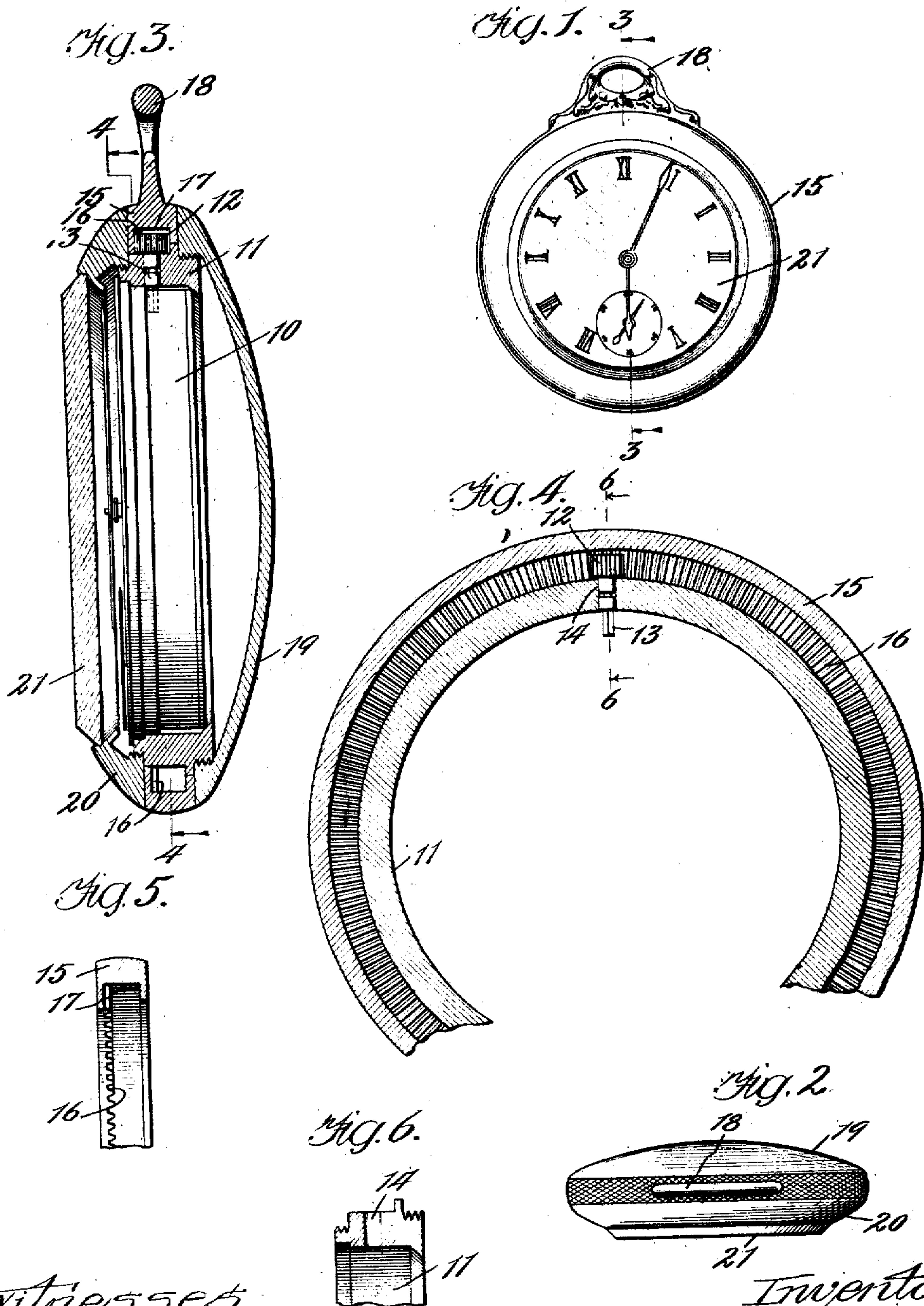


F. JACOBSON.  
WATCHCASE.

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Patented Dec. 29, 1908.

908,103.



Witnesses:  
Jas. D. Perry  
Robert H. Weir

Inventor:  
Frank Jacobson  
By Cheever & Cox Attys



# UNITED STATES PATENT OFFICE.

FRANK JACOBSON, OF CHICAGO, ILLINOIS.

## WATCHCASE.

No. 908,103.

Specification of Letters Patent.

Patented Dec. 22, 1908.

Application filed March 17, 1908. Serial No. 421,685.

*To all whom it may concern:*

Be it known that I, FRANK JACOBSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Watchcases, of which the following is a specification.

My invention relates to watch cases and the object of the invention is to provide a case which is substantially dust proof and substantially water proof, also to provide a case in which the winding and setting of the movement may be effected by rotating a portion of the casing itself about an axis perpendicular to the face of the watch, thus avoiding the necessity for a key or winding stem.

I obtain my objects by the mechanism illustrated in the accompanying drawings, in which:

Figures 1 and 2 are front and top views of a case embodying my invention. Fig. 3 is a section of the case taken on the line 3—3 Fig. 1. Fig. 4 is a sectional view taken on the line 4—4 Fig. 3. Fig. 5 is a fragmentary sectional view of the winding ring or housing taken on the line 3—3 Fig. 1. Fig. 6 is a fragmentary sectional view of the annulus taken on the line 6—6 of Fig. 4.

Similar numerals refer to similar parts throughout the several views.

In this, the preferred form of case, the watch movement or works 10 is held within the annulus 11 by any suitable fastening means. The standard keyless movements are usually adapted to be operated by a winding pinion which in reality forms no part of the case and may assume various forms. A common form is shown in the drawings, this pinion 12 having a shaft or arbor 13 adapted to extend through the aperture 14 in annulus 11 to meet the movement. A ring 15 is adapted to rotate upon the annulus 11 and has an annular rack 16 adapted to mesh with and rotate the pinion 12. In the preferred form, in order to render the case substantially dust proof, the ring has an interior annular groove 17 adapted to receive pinion 12 and form a housing therefor. It is also desirable that the inner edges of the ring make sliding contact with the annulus 11 in order to exclude dust. The ring 16 may be knurled at its periphery as shown in Fig. 2 or may be smooth as shown elsewhere in the drawings and is, under ordinary circumstances,

provided with an eye 18 for receiving the swivel of a watch chain or fob. The eye 18 when present also serves to facilitate the rotation of the ring 15.

The case has a back 19 and a bezel 20 adapted to hold the glass or crystal 21. The back and bezel are rigidly secured to the annulus 11 preferably by means of screw threads, as shown. This makes a practically dust proof case inclosing the movement, the only aperture for dust being the one 14 which is adapted to receive the arbor 13 of the winding pinion; but as said pinion is housed within the annular groove 17 in ring 16 the aperture 14 is covered. The ring 15 lies between the back 19 and bezel 20 and as the proximate surfaces fit closely, they assist in excluding dust. The outside diameters of these parts are all practically equal, thus imparting a finished appearance to the case—in fact the means for winding the works is not apparent except upon close examination. Although for purposes of manufacture it is advantageous that the back 19 and bezel 20 screw into the annulus 11, there is no other reason why either the back or the bezel may not be integral therewith.

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

1. A watch case consisting of a central member and two exterior members rigidly secured together and having a configuration such as to form when assembled an annular recess laterally bounded by plane parallel surfaces extending inward to said central member, a winding pinion mounted in one of the three first-mentioned members of the case, and a ring having plane parallel surfaces and closely fitting said recess, said ring being rotatable relatively to the first-mentioned member of the case and having an annular rack adapted to operate the winding pinion.

2. In a watch case, the combination of an annulus, adapted to support the watch movement, a winding pinion mounted upon said annulus in position to wind the movement, a ring concentric with said annulus and adapted to rotate thereon for rotating said pinion, a bezel screwing onto said annulus in front of said ring and a back screwing into said annulus behind said ring, the outside diameters of said bezel, back and ring being substantially the same



to thereby impart a finished appearance to the case.

3. In a watch case, the combination of an annulus adapted to support the watch movement, a winding pinion for operating the movement, said pinion having an arbor adapted to pass through a suitable aperture in said annulus whereby the pinion lies upon the outside of the annulus while the movement is contained within said annulus, a ring having an annular groove on the inside thereof adapted to form a housing for the pinion and having a rack adapted to operate said pinion, a back and a bezel screwing onto said annulus and having surfaces adapted to contact the front and back surfaces of said ring without preventing the rotation thereof, said back and bezel being adapted to be rigidly secured to said annulus.

4. In a watch case, the combination of an annulus adapted to support the watch movement, a winding pinion mounted upon said annulus in position to wind the movement, a ring concentric with said annulus and adapted to rotate thereon for rotating said pinion, a bezel screwing onto said annulus in front of said ring and a back screwing into said annulus behind said ring, and a projection rigidly secured to said ring for rotating it with reference to the back and bezel.

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses

FRANK JACOBSON.

Witnesses:

HOWARD M. COX,  
C. J. CHRISTOFFEL.