A. FRIEDMAN.

WATCH.

APPLICATION FILED JUNE 24, 1912.

1,044,370. Patented Nov. 12, 1912.

Fig. 1

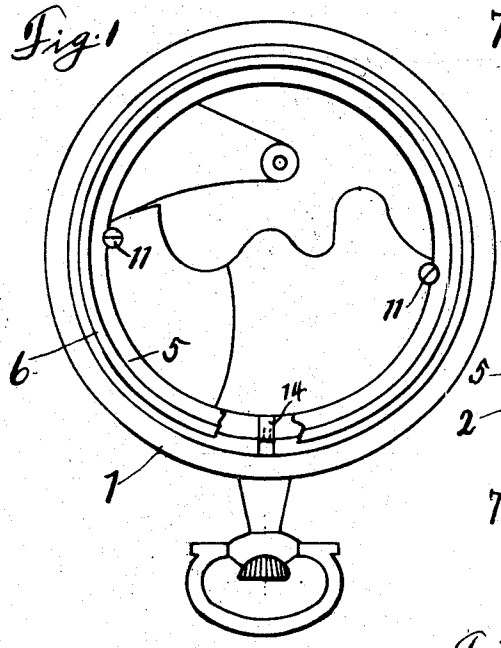


Fig. 2

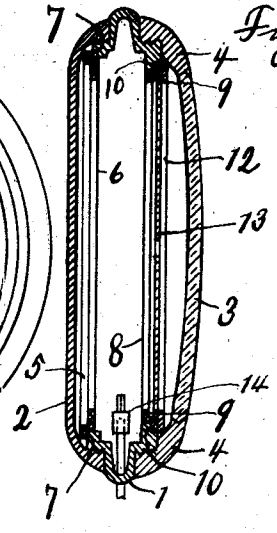


Fig. 4

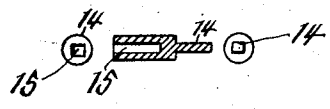


Fig. 3

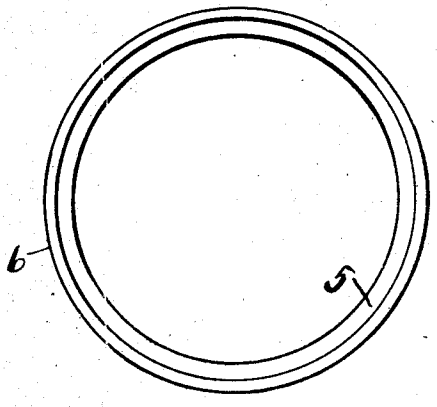


Fig. 5

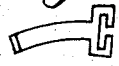


Fig. 6



Witnesses

J. V. Stitt.

A. Friedman.

Inventor,

Adolph Friedman,

By A. P. Jackson,

Attorney

UNITED STATES PATENT OFFICE.

ADOLPH FRIEDMAN, OF FORT WORTH, TEXAS.

WATCH.

1,044,370. Specification of Letters Patent. Patented Nov. 12, 1912.

Application filed June 24, 1912. Serial No. 705,476.

To all whom it may concern:

Be it known that I, ADOLPH FRIEDMAN, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Watches, of which the following is a specification.

My invention relates to watch cases and more particularly to interchangeable watch cases, and the object is to provide means in connection with watch cases by which a smaller sized works can be mounted in a larger sized casing and vice versa where a watch case is already equipped with the improvements. The advantage is that the works of a watch can be mounted in casings of different sizes. The advantage to merchants is that it will not be necessary to carry so many sizes of watch cases in stock and the works can be mounted in a casing whether it is the size of the casing so that a purchaser will not have to wait until a casing can be ordered.

Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application.

Figure 1 is a view showing the back of the works of a watch, the back cover being removed and only the frame of the works being shown. Fig. 2 is a diagonal section of the watch frame and covers and the improved attachments. Fig. 3 is a face view of one of the interchangeable rings. Fig. 4 illustrates the construction of the stem extension, being views of both ends and a longitudinal section. Figs. 5 and 6 are plan and edge views respectively of an extension for lever-set watches.

Similar characters of reference are used to indicate the same parts throughout the several views.

A watch case of ordinary construction is shown. The casing has the main frame 1 and covers 2 and 3 screwed on the frame 1. The cover shown for the front of the watch consists of the bezel 4 and the glass cover 3, the bezel being screwed on the frame 1. In the back of the watch is mounted a ring which has on the outer face an interior annular shoulder 5 for supporting the works of the watch. Screws 6 are screwed into the frame of the works and clamp the supporting ring to the works and this ring 6 is held in place by screws 11 and by the case 1. The ring 6 may be called a false frame as it simply takes the place of the frame in carrying the works of the watch and being smaller than the frame, will support and carry smaller works than can be carried by the real frame. The ring 6 has an annular exterior shoulder 7 on its inner face which rests on the real frame of the watch. The ring 6 thus rests on the part of the frame on which the works of the same size as the works would rest. A similar ring 8 is mounted on the front part of the works and rests on the part of the case 1 on which the works and the dial would ordinarily rest. The works and the dial rest on an annular interior shoulder 9 on the outer face of the ring 8 and the ring 8 has an annular exterior shoulder 10 which rests on the case 1. The ring 8 may also be called a false frame as it serves as a substitute for the real frame for holding the works and the dial.

The screws 11 bind the ring 6 on the works and the ring 6 is clamped on the case 1 because the ring 8 is on the other side of the case 1 and the screws 11 draw the main, or a shoulder on the main, plate of the works against the ring 8 and thus clamp ring 8 on the opposite side of the case 1 from 6 and thus rings 6 and 8 and the works and the case 1 are all bound together by the screws 11. The rings 6 and 8 are thus supplemental frames and make it feasible and practicable to interchange watch cases with works of different sizes. A flat protecting ring 12 is provided to cover the joint between the ring 8 and the dial 13. The ring 12 is held in place by the bezel 4. The ring 12 will prevent dust from entering the works. An extension 14 for the watch stem is provided for use where the works mounted in a case are of a smaller size than the size of the case. The extension 14 has a cap or female portion 15 which receives the end of the original stem of the watch. The extension 14 is made detachable and may be secured on the watch stem in any suitable manner. The rings 6 and 8 are to be made in several sizes and the stem extension 14 is to be made in several lengths.

In lever-set watches, the interchangeable supplemental frames are used in the same

manner, but extension levers, such as are shown in Figs. 5 and 6, are used instead of the extension stem.

What I claim, is,—

1. The combination with a watch case and its works of supplemental frames, one supplemental frame being mounted on and engaging the back part of the watch case and engaging the works and one supplemental frame being mounted on and engaging the front part of the works and held thereon by the works and the works of the watch being supported and carried in said supplemental frames.

2. The combination with a watch case and its works of supplemental frames, each supplemental frame having an annular exterior shoulder on its inner face for engaging the works and an annular exterior shoulder on its outer face for engaging the case, the works of the watch engaging the interior shoulder of the front ring of the watch and screws inserted in the works and engaging the interior shoulder of the back ring of the watch for binding said supplemental frames on the works and the case.

3. Supplemental carriers for the works of watches consisting of a ring frame having an off-set engaging the back part of the watch case and an off-set engaged by the attaching screws of the works and of a ring frame having an off-set engaging the front part of the watch case and an off-set engaging the works of the watch, the works being carried by the supplemental frames.

4. The combination with a watch case and its works of supplemental carriers for the works engaging the watch case and a stem extension mounted on the watch stem for winding the watch.

In testimony whereof, I set my hand in the presence of two witnesses, this 20th day of June, 1912.

ADOLPH FRIEDMAN.

Witnesses:

A. L. JACKSON,

B. Z. FRIEDMAN.

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