Sept. 15, 1925

1,553,857

M. GOLDEN

CONVERTIBLE WATCH

Filed May 15, 1925

FIG 1

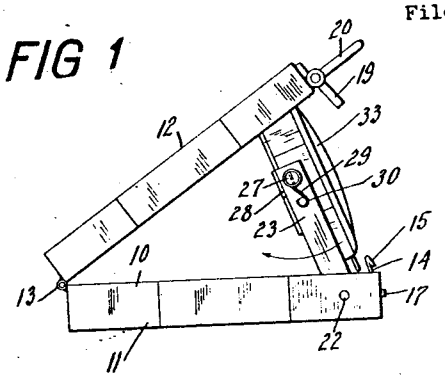


FIG 2

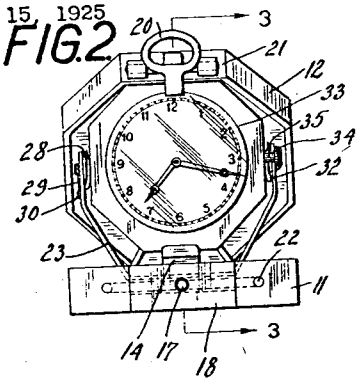


FIG. 3.

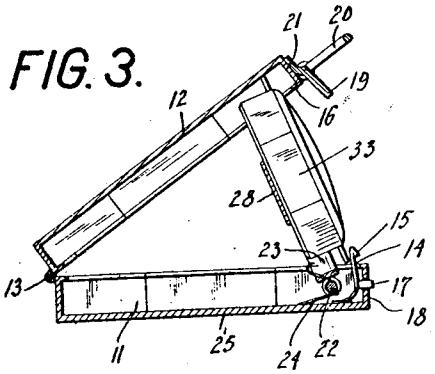


FIG. 6.

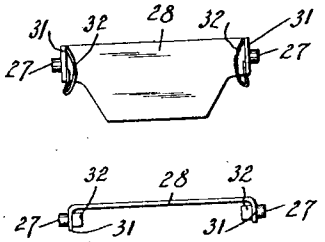


FIG.7.

FIG. 5.

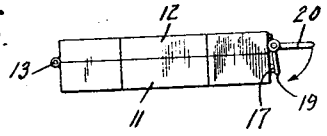
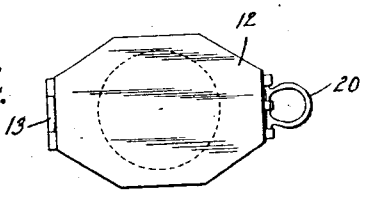


FIG. 4.



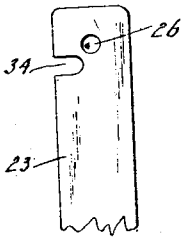


FIG. 8.

INVENTOR

M. Golden

BY

Sigmund Herzog

ATTORNEY

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UNITED STATES PATENT OFFICE.

MILTON GOLDEN, OF NEW YORK, N. Y.

CONVERTIBLE WATCH.

Application filed May 15, 1925. Serial No. 30,527.

To all whom it may concern:

Be it known that I, MILTON GOLDEN, a citizen of the United States, and resident of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Convertible Watches, of which the following is a specification.

The present invention relates to improvements in watches, and more particularly to wrist watches.

Watches of this type are usually provided with a strap, to be applied to the wrist of the wearer and usually lack the bow, so that the watch cannot be attached to a chain or the like, in case the watch is to be carried along in the pocket of the user or suspended from the neck. These wrist watches are open-faced.

The main object of the present invention is to provide a watch having an inner case detachably mounted within an outer, and which can be turned to convert the watch into an open-faced or a hunting case watch, thereby permitting a bowless wrist watch to be converted into one that can be attached to a chain or the like.

Another object of the invention is to so construct the watch that the inner case may be caused to stand at a desired inclination in the outer casing when the cover of the latter is raised, so that the watch may be used as a desk watch or traveling watch.

A further object of the invention is to provide a watch of the type mentioned which is simple in construction, efficient in operation, durable in use and capable of manufacture on a commercial scale, or in other words one which is not so difficult to make as to be beyond the reasonable cost of such a contrivance.

With these and other objects in view, which will more fully appear as the nature of the invention is better understood, the same consists in the combination, arrangement and construction of parts hereinafter described, pointed out in the appended claims and illustrated in the accompanying drawings, it being understood that many changes may be made in the size and proportion of the several parts and details of construction within the scope of the appended claims, without departing from the spirit or sacrificing any of the advantages of the invention.

One of the many possible embodiments of the invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of a watch constructed in accordance with the present invention, the same being shown in the form of a desk watch; Fig. 2 is a front elevation thereof; Fig. 3 is a section taken on line 3—3 of Fig. 2; Fig. 4 is a top plan view of a watch in the form of a hunting case watch; Fig. 5 is a side elevation of the device shown in Fig. 4; Fig. 6 is a front elevation of one element of the connecting means between the wrist watch and the outer casing of the device; Fig. 7 is a top elevation of the element shown in Fig. 6; and Fig. 8 is a side elevation of a portion of another element of the said connecting means, on a larger scale.

In the drawings, the numeral 10 indicates a casing, composed of a body portion 11 and a cover 12, the latter being joined with the body portion by a hinge 13. For the purpose of holding the cover in its closing position, there is attached to the body portion 11 a spring catch 14, having on its free end an enlargement 15, adapted to engage a projection 16 on the cover. To the spring catch is secured a lug 17, which projects through the front wall 18 of the body portion 11 of the casing and is adapted to co-operate with a finger 19, which is rigidly attached to a bow 20, the latter being oscillatably mounted upon the front wall 21 of the cover 12.

Adjacent the front wall 18, there is oscillatably mounted in the side walls of the casing 11, preferably by means of a pin 22, a bail-shaped rigid element 23, adapted to be folded into the casing body 11. The pin 22 is fixed to the bight portion of the element 23 and has coiled upon it a spring 24, one end of the latter engaging the bottom 25 of the body portion 11, while its other end engages one of the legs of the bail-shaped element 23, as clearly shown in Figs. 1 and 3 of the drawings. The tendency of this spring is to swing the element 23 into an inclined position, shown in Figs. 1 to 3,

inclusive, of the drawings, when the cover 12 is raised. In each of the legs of the bail-shaped element 23 is formed, adjacent its free end, an aperture 26, the two apertures being in alignment. Through these apertures are extended trunnions 27 on a substantially U-shaped, preferably metallic support 28. This support is adapted to swing on its trunnions on the bail-shaped element 23, a spring 29 being provided for causing the support to extend in parallel relation to the bail-shaped element 23 when the latter is in its inclined position shown in Figs. 1 to 3, inclusive, of the drawings. The spring is coiled around one of the trunnions 27, is attached at one of its ends to the said trunnion, while its other end is engaged with a pin 30, the latter being carried by the bail-shaped element 23.

To each of the legs 31 of the support 28 is fastened a blade spring 32, the said springs projecting toward one another, as clearly shown in Fig. 6 of the drawings, and engaging a wrist watch 33, so as to hold the same by friction upon the support 28. In order to permit this wrist watch to be mounted upon the support, one of the legs of the latter and the adjacent leg of the bail-shaped element 23 must be provided with registering slots 34, in which the stem 35 of the wrist watch may be disposed.

Before mounting the wrist watch on the support 28, the wrist strap must be removed from the former. The watch is then placed upon the support between the springs 32 with its open face exposed to view. When the elements of the device are in the positions shown in Figs. 1 to 3, inclusive, of the drawings, the support 28 extends in parallel relation to the bail-shaped element 23, the open cover 12 of the casing 10 resting on top of the wrist watch, the spring 24 holding the elements in the positions indicated. The device is, thus, in the form of a desk watch or traveling watch, it being placed upon a desk or other suitable support, the open face of the wrist watch being in full view. If it is intended to convert the desk watch into a hunting case watch, the cover 12 is forced toward closing position, whereby, first, the support 28, with the wrist watch thereon, is swung on the trunnions 27 in the direction of the arrow shown in Fig. 1 of the drawings, and, in the continued closing movement of the cover 12, the bail-shaped element 23 with the wrist watch thereon, is swung into the body portion 11 of the casing 10, to be held therein by the interengaging locking elements on the casing body 11 and cover 12. The elements are thus brought into the positions shown in Figs. 4 and 5 of the drawings, in which the watch may be attached to a chain or the like, the chain being brought into engagement with the bow 20. It may thus be carried along in the pocket of the user or on a chain or necklace suspended from the neck of the wearer. It is to be noted that, when the elements are in the positions indicated in Figs. 4 and 5 of the drawings, the open face of the wrist watch rests upon the bottom 25 of the casing body 11. In order to open the cover 12, the bow 20 is forced in the direction of the arrow shown in Fig. 5 of the drawings, whereby the lug 17 is forced inwards, thereby disengaging the catch 14 from the projection 16 on the cover 12. As soon as these elements are disengaged, the spring 24 raises the bail-shaped element 23, and thereby forces the cover 12 of the casing 10 toward open position. At the same time the spring 29 causes the support 28 and the wrist watch thereon to swing on the trunnions 27, exposing the open face of the wrist watch to view. The movements of the wrist watch and the bail-shaped element 23 continue until the elements are in the positions shown in Figs. 1 to 3, inclusive, of the drawings.

If the watch is to be used as an ordinary wrist watch, the wrist watch element of the device is removed from the support 28 and a strap attached to the wrist watch element in the usual manner.

From the foregoing it appears that in accordance with this invention an ordinary wrist watch may be easily converted into a hunting case watch, and the latter includes means whereby it may be used as a desk watch or traveling watch.

The springs 32 are provided on the support 28 to adapt the same to wrist watches of various sizes. It is to be noted that, while herein a casing 10 and a wrist watch of specific configurations have been shown, others may just as well be used without departing from the invention, which resides mainly in the provision of means for converting an open faced watch into a hunting case watch, and in the further provision of means for permitting the hunting case watch to be used as a desk watch, that is to say as a watch wherein the wrist watch is caused to stand at a desired inclination in the body of the casing when its cover is raised.

What I claim is:—

1. A device of the character described comprising a casing body, a cover hinged thereto, means for holding said cover in closing position, a bail-shaped element pivoted to said casing body adjacent its front wall, said bail-shaped member being adapted to be folded into said casing body, a spring for causing said bail-shaped member to move so as to stand in an inclined position in said casing body when said cover is raised, a support pivotally mounted upon the free ends of the legs of said bail-shaped element, means for causing said support to extend in parallel relation to said bail-

shaped element when said cover is raised and permitting the same to turn 180° on its pivots when said cover is caused to move toward closing position, and means on said support for frictionally holding thereon an open-faced watch.

2. A device of the character described, including a casing body, a cover hinged thereto, a projection on said cover, a spring catch fastened to said casing body adapted to co-operate with said projection, a lug on said catch projecting through the front wall of said casing body, and a bow pivoted to said cover provided with a finger for co-operation with said lug.

Signed at New York, in the county of New York, and State of New York, this 12th day of May, A. D. 1925.

MILTON GOLDEN.