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F. BOSCH

1,957,157

CASE FOR WATCHES, INSTRUMENTS, AND THE LIKE

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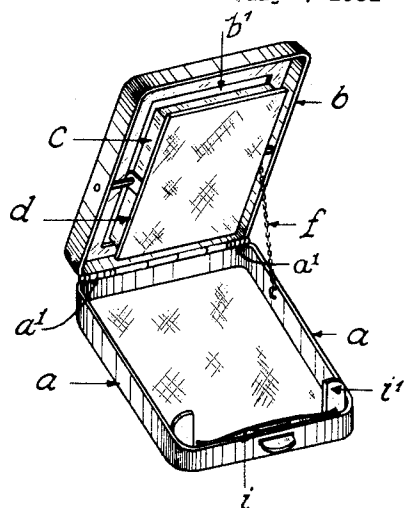


Fig. 1

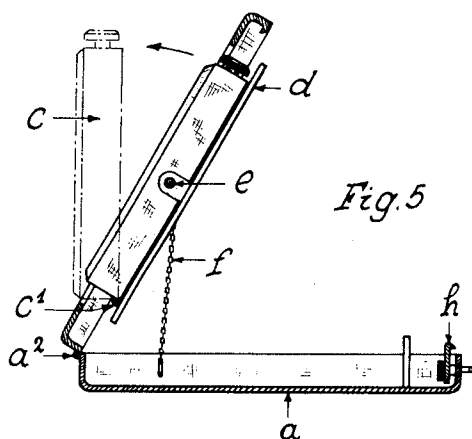


Fig. 2

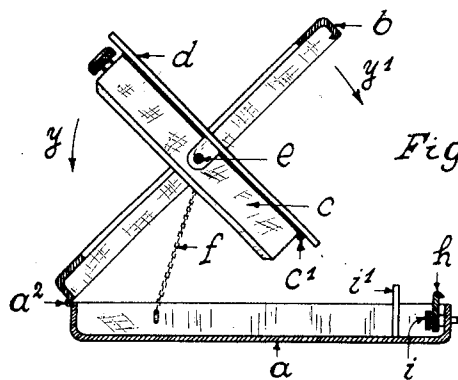


Fig. 3

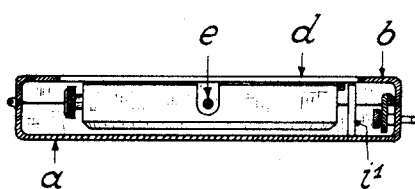


Fig. 4

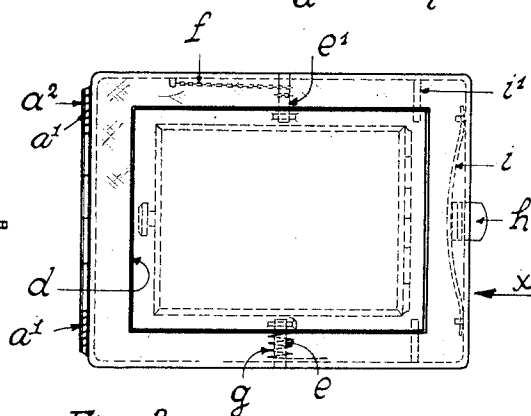


Fig. 5

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UNITED STATES PATENT OFFICE

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CASE FOR WATCHES, INSTRUMENTS, AND
THE LIKE

Fritz Bosch, Pforzheim, Germany

Application July 2, 1931, Serial No. 548,388
In Germany July 7, 1930

1 Claim. (Cl. 206—37)

The present invention relates to an instrument or clock, and has for its object to enable such object to be carried in the pocket or in a traveling bag or the like while being protected effectively against damage. It is also possible to bring the instrument or clock by a particularly simple manipulation from the protected position into the position of use and vice versa. The invention consists in a novel combination and arrangement of parts and elements as hereinafter fully described and illustrated by the drawing annexed and characterized by the claim.

In order to explain the invention an example of construction is illustrated in the accompanying drawing wherein:

Fig. 1 shows a perspective view of a clock with its protecting case in the open position.
Fig. 2 is a diagrammatic longitudinal section.
Fig. 3 is a plan.

Fig. 4 shows the arrangement when closing the protecting case in section and

Fig. 5 shows a section in the open position.

A protecting case *a* is provided with a hinged lid *b*. Springs *a'* constantly tend to urge the lid into the open position. The lid is provided with an opening *b'* in which a clock having a rectangular casing *c* can turn. In the form of construction shown the clock is so mounted by means of a bearing plate *d* and pivots *e* that the bearing plate *d* with the clock *c* can turn freely in the opening *b'*. In the protecting position, that is to say when the clock is turned inwardly the bearing plate *d* effectively closes the opening *b'* in the case lid (see Figs. 2 and 3). In the position of use the bearing plate *d* is turned through 180° so that the clock or another instrument can be observed without difficulty.

For this rotary movement there is provided a chain *f* which at one end is connected to the case *a* and at the other end to the pivot *e* or passed around this. On the pivot *e* is mounted a spring *g* which constantly tends to turn the bearing plate *d* with the clock *c* in the direction of the arrow *y*, that is to say move it into the closing position. The spring *g* is weaker than that provided in the hinge *a* and which serves to open the case.

The closure is formed by a bolt hook *h* freely mounted in a slot of the case *a* and constantly pressed into its closing position by a blade spring *i*.

If the closure *h* is pressed inwardly in the direction of the arrow *x* the lid *b* is released and opens. As the pivots *e*, *e*¹ describe an arc about the turning axis of the hinge *a* the chain *f* must

be lengthened which is rendered possible by the rotation of the pivots *e*, *e*¹ and the bearing plate *d* or the clock *c*. If the lid *b* is moved in the direction of the arrow *y*¹ to close it the chain is again wound automatically on the pivot *e*¹ by the action of the spring *g* and the clock is simultaneously brought into its closing position.

The arrangement and guiding of the closure *h* affords the security that it can only be brought into a position for releasing the lid by moving it parallel to itself. In this manner the closure is prevented from being damaged or from being brought into an inclined position. Under the rim of the plate *d* there engage, in the closed position of the case, pins *i*¹ provided on the latter so that the plate accurately fits into the opening in the lid *b* and remains in this position.

In order to enable the clock to be wound conveniently it is capable of being tilted as a whole about the hinge *c*¹ from the opening *b*¹ (Fig. 5).

The closure of the case and the means for supporting and driving the instrument or the clock may be varied and are not limited in this respect by the technical features of the invention.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be used I declare that what I claim is:

A case for instruments, watches and the like, comprising in combination a protective case partially enclosing the instrument and having a hinged lid provided with an opening adapted to receive the instrument and to be flush with the backside of the instrument, when the protective case is closed, means for rotatably mounting the instrument within the said opening, a tension member fastened at its one end to the protective case and at its other end to one of the said pivots, which latter end is adapted to be wound, a spring adapted to rotate the instrument and to wind up the tension member for bringing the instrument with its backward side flush with the opening of the lid, and a spring of larger tension than the aforementioned spring adapted to rotate the lid of the protective case and the instrument, when the former is opened.

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