

(Model.)

F. MAYR.
WATCH CASE.

No. 339,450.

Patented Apr. 6, 1886.

Fig. 1.

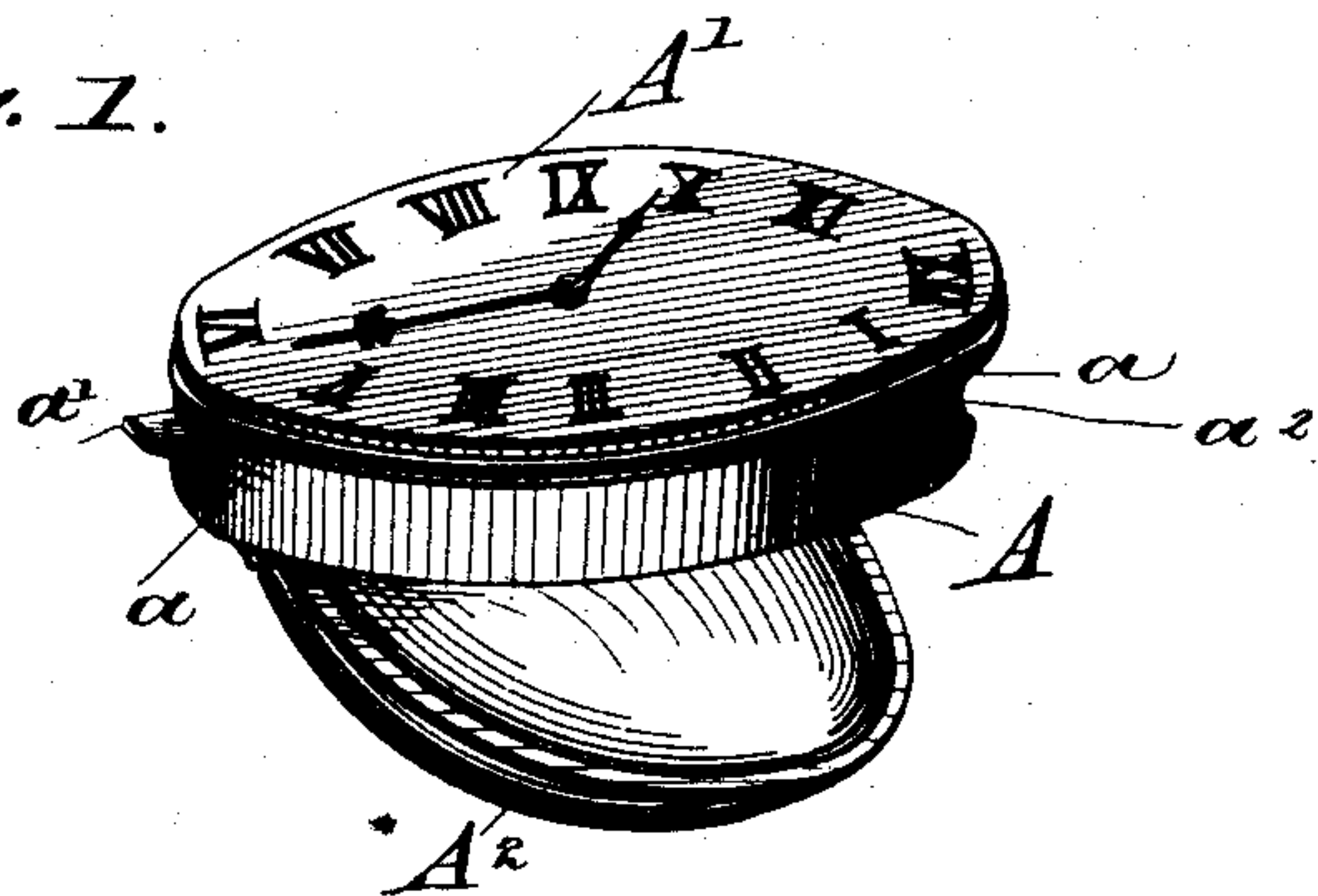


Fig. 2.

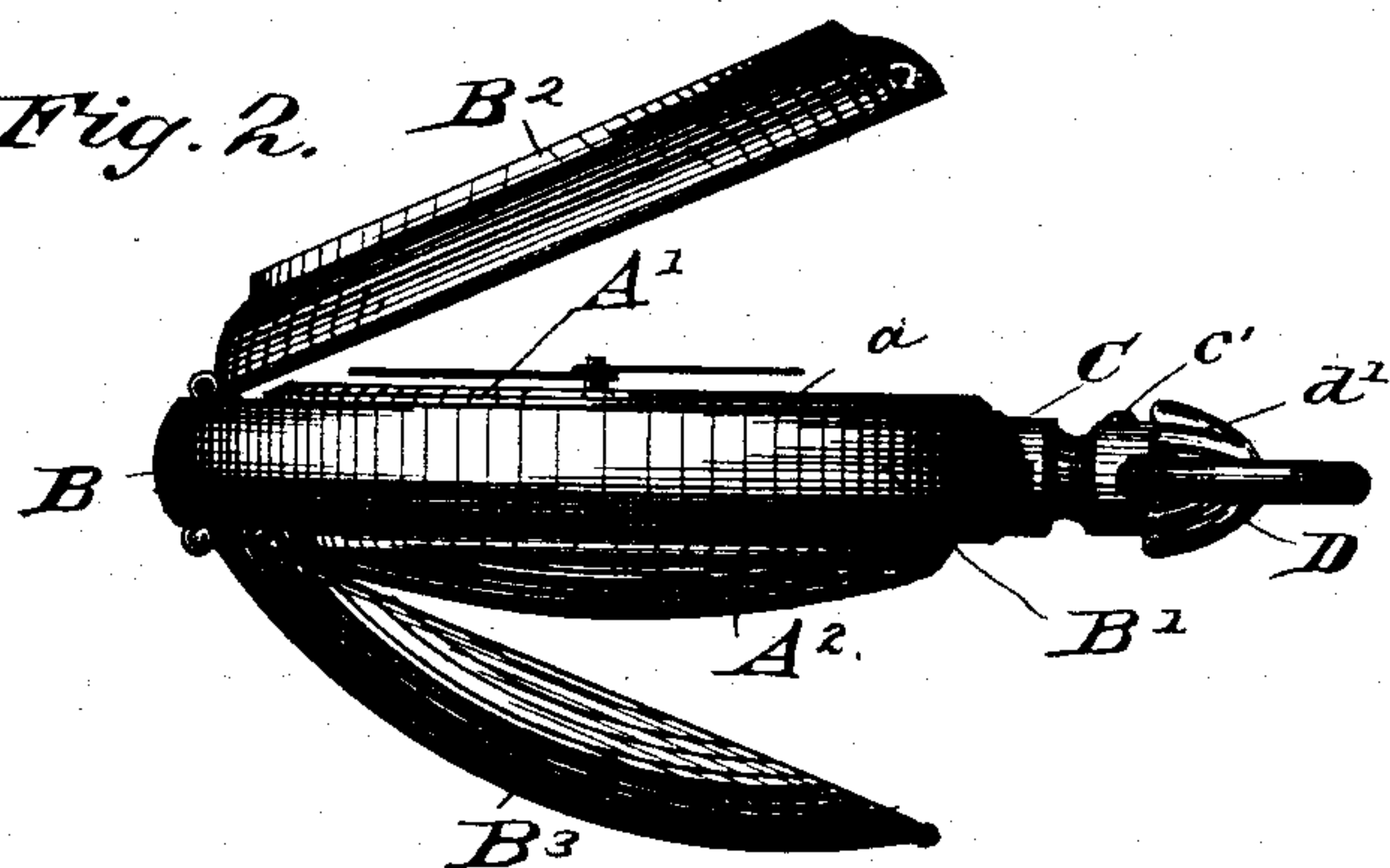
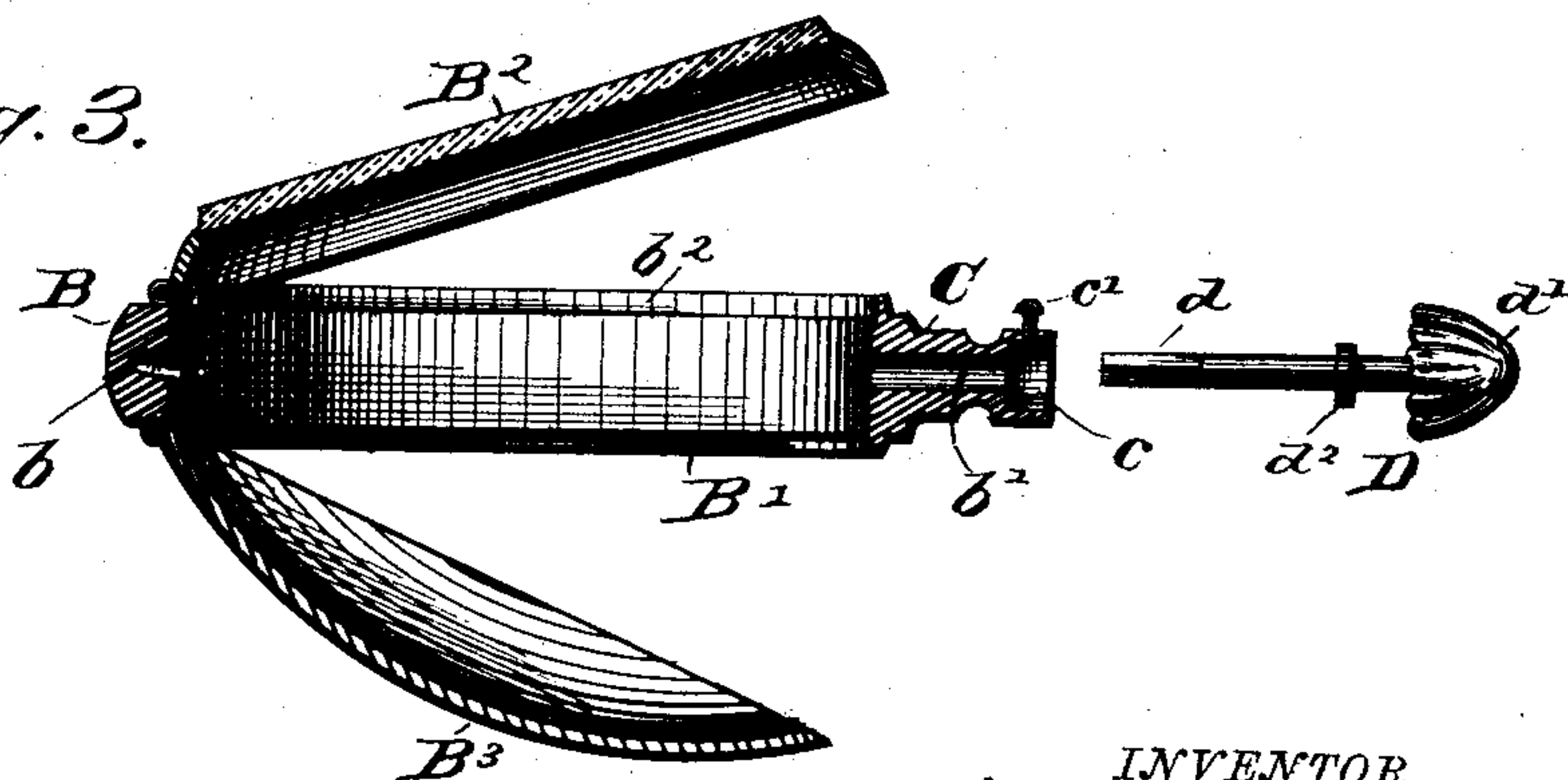


Fig. 3.



WITNESSES

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FRANK MAYR, OF SOUTH BEND, INDIANA.

WATCH-CASE.

SPECIFICATION forming part of Letters Patent No. 339,450, dated April 6, 1886.

Application filed November 9, 1885. Serial No. 182,193. (Model.)

To all whom it may concern:

Be it known that I, FRANK MAYR, of South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Dust-Proof Watch-Cases; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 represents a perspective view of the dial and movement-case. Fig. 2 is a side view of the device with the spring-covers open, and Fig. 3 is a diametrical section of the same in line with the pendant.

This invention relates to improvements in the cases of stem and key winding watches, the object being to provide such a case of simple construction, and one that will be perfectly dust-proof; and it consists in the construction and novel arrangement of the various parts hereinafter described, and particularly pointed out in the appended claim.

Referring to the accompanying drawings by letter, A designates the movement-case having the dial A' attached. The said case has around it, adjoining the dial, the peripheral flange *a*, and is provided on its circumference, centrally between the edges thereof, with the projection *a'*, rectangular in transverse section and converging outwardly, being in the shape of the frustum of a pyramid. Diametrically opposite the said projection is the opening *a''* in the periphery of the movement-case, midway between the edges of the same. The projection is situated adjacent to the six-o'clock mark of the dial and the opening *a''* is similarly situated in relation to the twelve-o'clock mark thereof.

A² is a spring-cover on the side of the movement-case opposite the dial, and by means of which access may be had to the watch movement for regulating the same, or for winding the watch by a key when the invention is applied to key-winding watches.

B is the outer case of the watch, composed of the peripheral rim B', and the front and rear hinged covers, B² B³, respectively, the former of which is composed of the bezel and crystal, as shown. The rim B' is preferably convex on its outer surface, and has on its

inner surface the recess *b* and the opening *b'* diametrically opposite each other, and respectively serving for the insertion of the projection *a'* and the push-pin or stem hereinafter described, the recess being so formed that the projection can be easily introduced therein and the movement-case A inserted within the rim B'.

b' is a circumferential groove or rabbet, within which the flange *a* of the movement-case fits and rests when said case is in place within the outer case, B.

Surrounding the opening *b'* is the tubular stem or pendant C, the bore of which is circular and of equal diameter to said opening, and provided at its outer end with the deep circumferential rabbet or recess *c*, into which passes the holding-screw *c'* from the side of the stem C, as shown.

D is the push-pin or stem, which serves also as the key, its inner end, *d*, being squared for that purpose. This stem, outside of said squared portion, is circular in cross-section and fits snugly within the bore of the stem C and the openings *b'* of the outer case and *a''* of the movement-case. The squared portion *d* engages the spring-arbor in the usual well-known manner.

d' is the head on the outer end of the stem, by means of which the latter is turned. The said pendant C is provided with the usual ring, as shown.

d'' is a circumferential flange surrounding the push-pin or stem, and so situated thereon that when the square portion of said stem properly engages the spring-arbor it will lie at the bottom of the recess *c*, and the screw *c'*, being driven inward, will hold against its outer surface and retain the stem in place without preventing the rotation thereof. The inner case fits snugly within the rim B' and is kept well in place by means of the conjoined action of the flange *a*, projection *a'*, and the push-pin or stem. The movement-case is perfectly dust-tight even when the covers B² B³ are open, because the flange *d''* covers the bore of the stem C, which bore is of less diameter than the recess *c*, in which said flange lies.

I am aware that dust-proof watch-cases have been made in which the pendant has served to aid in holding the movement-case within an outer case, and such I do not claim, broadly.

Having described my invention, I claim—
In a dust-proof watch-case, the combination
of the movement-case provided with a peripheral flange, a , projection a' , and opening a^2 ,
5 and having the hinged lid A^2 on the opposite
side from its dial, the outer case composed of
the hinged covers B^2 B^3 , and rim B' , provided
with the recess b and opening b' , and inner
circumferential groove b^2 , and stem C rising
10 from the rim around the opening b' and provided
with the recess c and holding-screw c' ,
and the push-pin or stem D , having a proper

head and provided with a squared end, d , and
circumferential flange d^2 , all constructed and
arranged substantially as and for the purpose 15
specified.

In testimony that I claim the foregoing as
my own I affix my signature in presence of
two witnesses.

FRANK MAYR.

Witnesses:

JAMES DUSHANE,
JEANIE ANDERSON.