

(No Model.)

O. O. AUNE.
WATCHCASE PENDANT.

No. 502,268.

Patented Aug. 1, 1893.

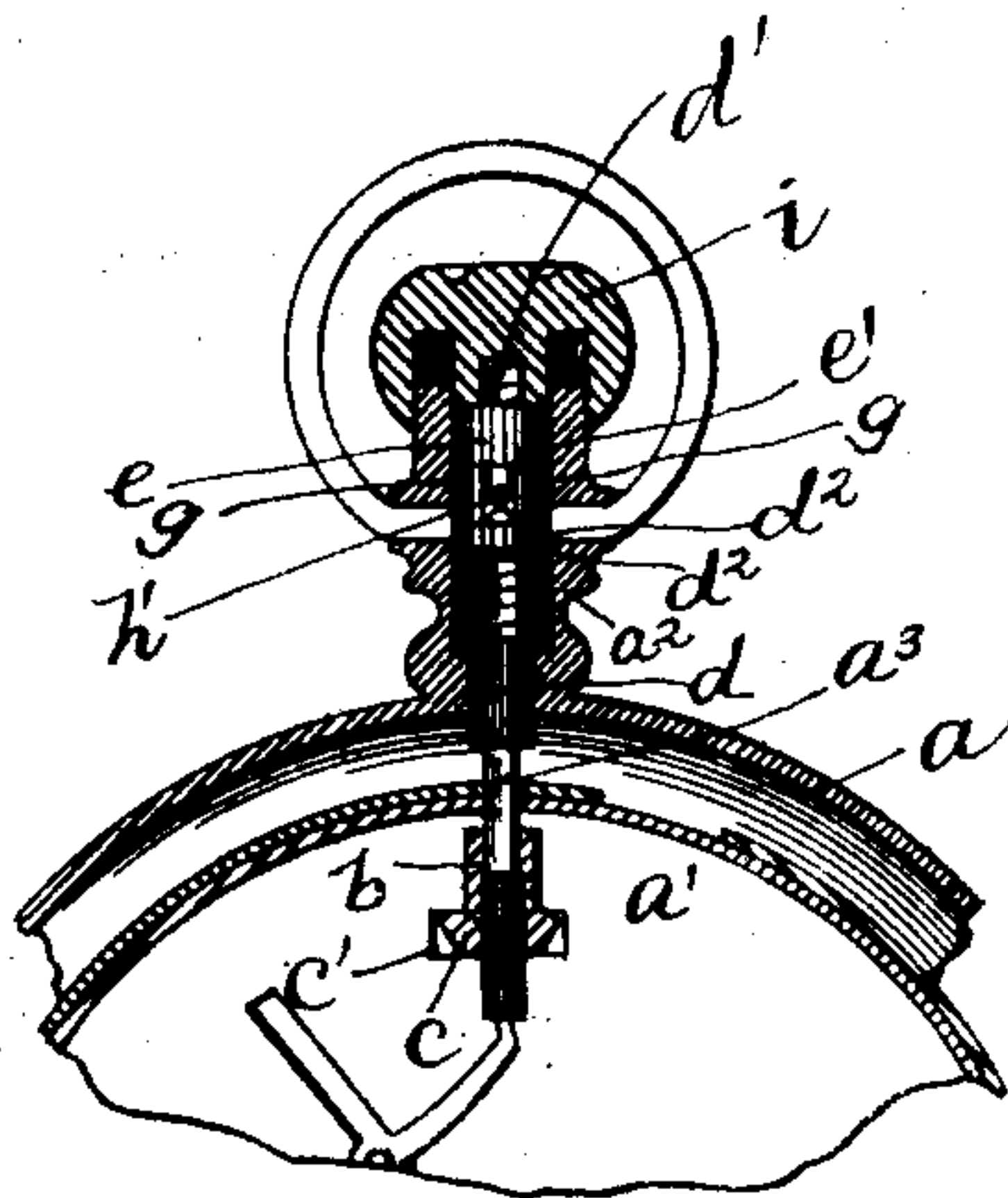


Fig. 1

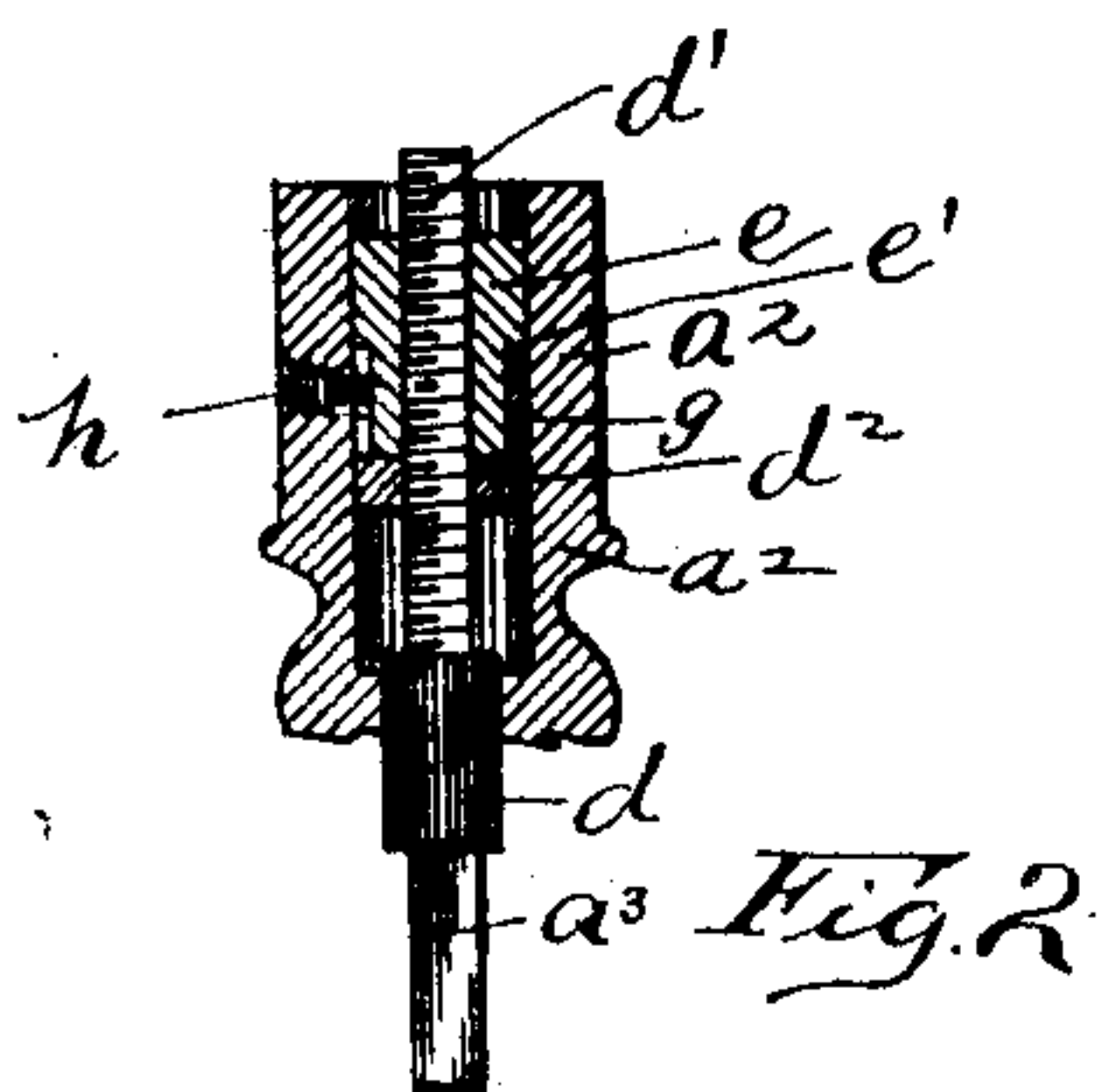


Fig. 2

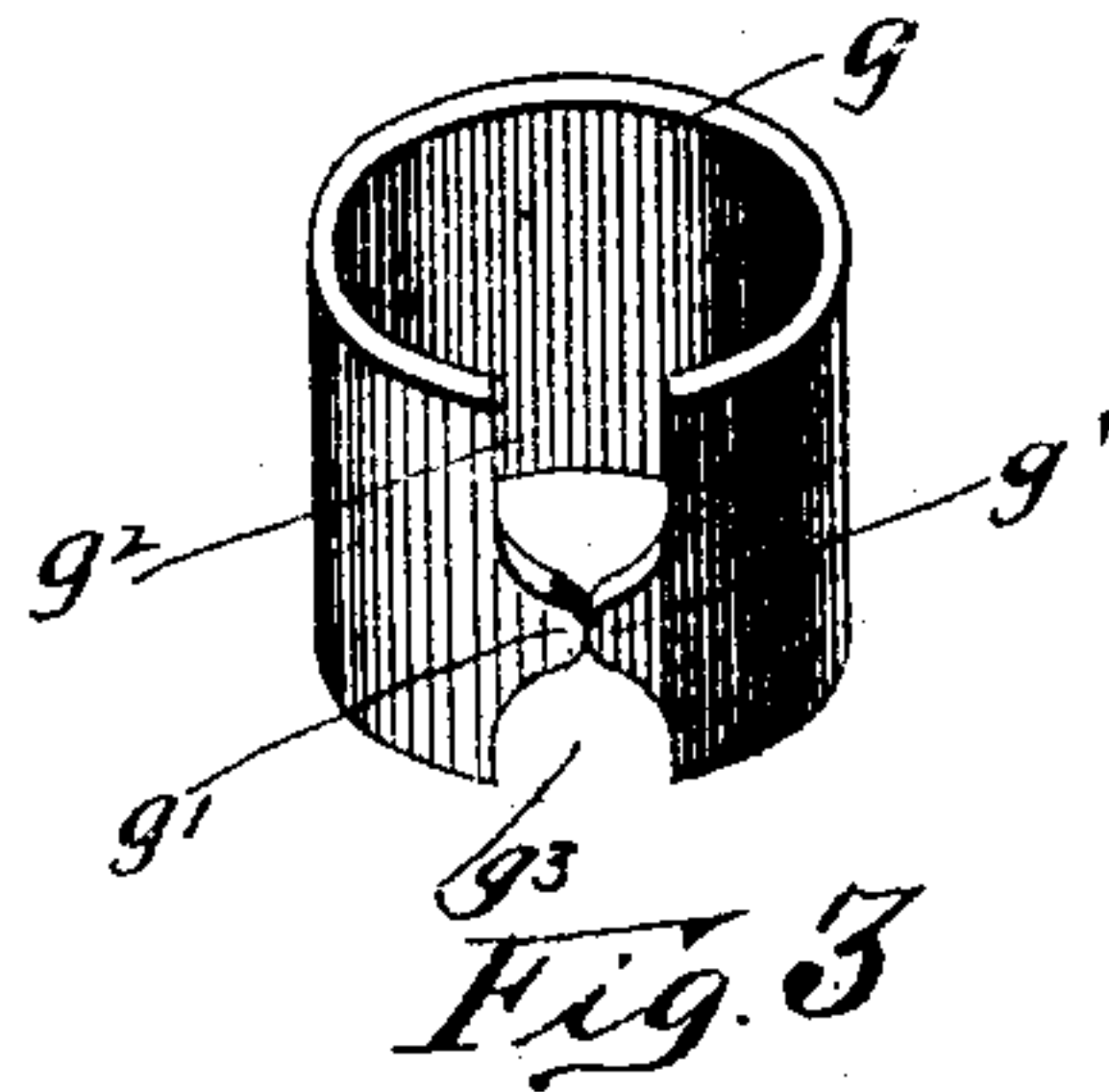


Fig. 3

WITNESSES:

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UNITED STATES PATENT OFFICE.

OLE O. AUNE, OF COLUMBUS, OHIO.

WATCHCASE-PENDANT.

SPECIFICATION forming part of Letters Patent No. 502,268, dated August 1, 1893.

Application filed January 25, 1893. Serial No. 459,655. (No model.)

To all whom it may concern:

Be it known that I, OLE O. AUNE, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Watchcase-Pendants, of which the following is a specification.

My invention relates to the improvement of stem setting watches and has particular relation to the winding stem and the means of supporting the same in position for winding or setting the watch.

The objects of my invention are to provide the winding stem with an improved spring holder which shall be simple in construction, inexpensive and effective in its operation; to obviate the necessity of screw threading the inner surface of the case stem and to produce other improvements which shall be more specifically pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a sectional view through the case stem and a portion of the watch case. Fig. 2 is a sectional view of the case stem and the parts surrounding the winding stem, said view being taken at right angles from that shown in Fig. 1, and Fig. 3 is a detail view in perspective of the spring collet or band which I employ.

Similar letters refer to similar parts throughout the several views.

a represents the watch case, a' a portion of the pillar or base plate of a watch mechanism and a^2 the case stem through which passes the winding stem a^3 . The inner square portion of the winding stem a^3 projects as shown upon the mechanism base plate or pillar plate and fits and slides as usual within the central opening of a tubular hub extension b of a bevel wheel c , said bevel wheel engaging in the usual manner through a slotted opening c' in the pillar plate with the operating wheel of the setting and winding yoke of the watch. This yoke and the means of operating the same, so as to engage the setting or winding mechanism of the watch are however well known and therefore omitted from illustration and specification herein given. The winding stem a^3 is as shown at d , provided at its point of entrance within the case stem, with the usual shoulder portion. The remain-

der of the winding without this shoulder portion d , is as shown at d' rounded and screw threaded. Upon this screw threaded portion d' is screwed a washer or ring d^2 against the outer face of which is adapted to bear the inner and smaller end of an elongated collar or tubular jacket e , the latter having its outer end portion of greater diameter than its inner end portion, thus forming as shown in the drawings a peripheral shoulder e' . Encircling the smaller portion of the jacket or casing e between the shoulder e' and the washer d^2 , is a spring collet or band g . This collet which consists of a small spring strip curved to the cylindrical form shown has its ends so cut away as to leave projecting therefrom, small tongue extensions g' , said tongue portions preferably having rounded ends which meet to complete the circle of the collet. As shown in the drawings, the tongue portions g' are somewhat nearer the inner end of the collet than the outer, thus resulting in the notch in said collet formed on the outer side of said tongues being as shown at g^2 of greater depth than the notch g^3 which is formed on the inner side of said tongue portion.

h represents a small screw or partially threaded pin which enters a screw hole in the case stem and which has its inner end normally projecting within the outer notch or seat g^2 of the collet, as shown by the point h' in Fig. 1. Upon the outer end of the winding or the screw threaded portion thereof, is screwed in the usual manner a suitable crown or thumb piece i .

As is well known the ordinary method of supporting the winding stem in position for setting the hands of the watch instead of in position for operating the winding mechanism thereof, consists in first pulling the winding stem outward sufficiently to produce in the usual manner an operation of the setting mechanism. In order to hold the winding stem in its outer setting position, it has been common to employ spring catches which surround the winding stem and which also engage with the case stem. The method and means of attaining this operation by the device herein described consist in pulling outward upon the winding stem until the inner end of the pin or screw h is sprung into the inner and smaller notch g^3 of the collet, said

screw passing between the projecting tongue ends of said collet. This being accomplished it will readily be seen that said collet tongue ends will serve as a bearing shoulder for the engagement of said screw end during the rotation of the winding stem ends in setting the watch. The watch hands having been set, it is evident that a sufficient inward pressure upon the crown must result in the inner end of the screw *h* assuming its normal position in the larger notch of the collet. It will be observed that the increased size of the outer collet notch is such as to admit of sufficient inward movement of the winding stem to effect the usual unlocking of the watch case.

The spring construction which I have shown and described herein, is as will readily be seen such as to obviate any necessity of forming a screw or other connection of the spring or any part thereof, with the inner surface of the case stem. It will also be observed that the improved construction herein shown is of such simple construction and arrangement as to admit of its production and adaptation at a low cost.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

30 1. In a stem setting watch the combination with the case, case stem and watch mechanism and a setting and winding mechanism

in connection therewith, of a winding stem or stem, a spring collet surrounding said stem or winding stem, notches in said collet above and below its end meeting points and a screw or pin *h* entering said stem and normally in engagement with one of said collet notches, the position of the winding and setting mechanism of said watch being dependent upon the position of said winding stem, substantially as and for the purpose set forth.

2. In a stem setting watch the combination with the case, a case stem projecting therefrom, a watch mechanism within said case and a winding and setting mechanism in connection therewith adapted to be operated by the rotation of the winding stem and a winding square extending within said watch case and case stem, of an adjustable and detachable collar *e* on said winding stem, a shoulder *e'* on said collar, a washer *d*² on said winding stem, a spring collet or band *g* between said washer and collar shoulder, a notch or seat above and below the meeting ends of said band or collet and a pin or screw projecting within said case stem and normally in engagement with one of said collet notches, substantially as and for the purpose specified.

OLE O. AUNE.

In presence of—

C. C. SHEPHERD,
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