

No. 614,402.

Patented Nov. 15, 1898.

W. E. LOTT.
CLOCK WINDING INDICATOR.

(Application filed Apr. 2, 1898.)

(No Model.)

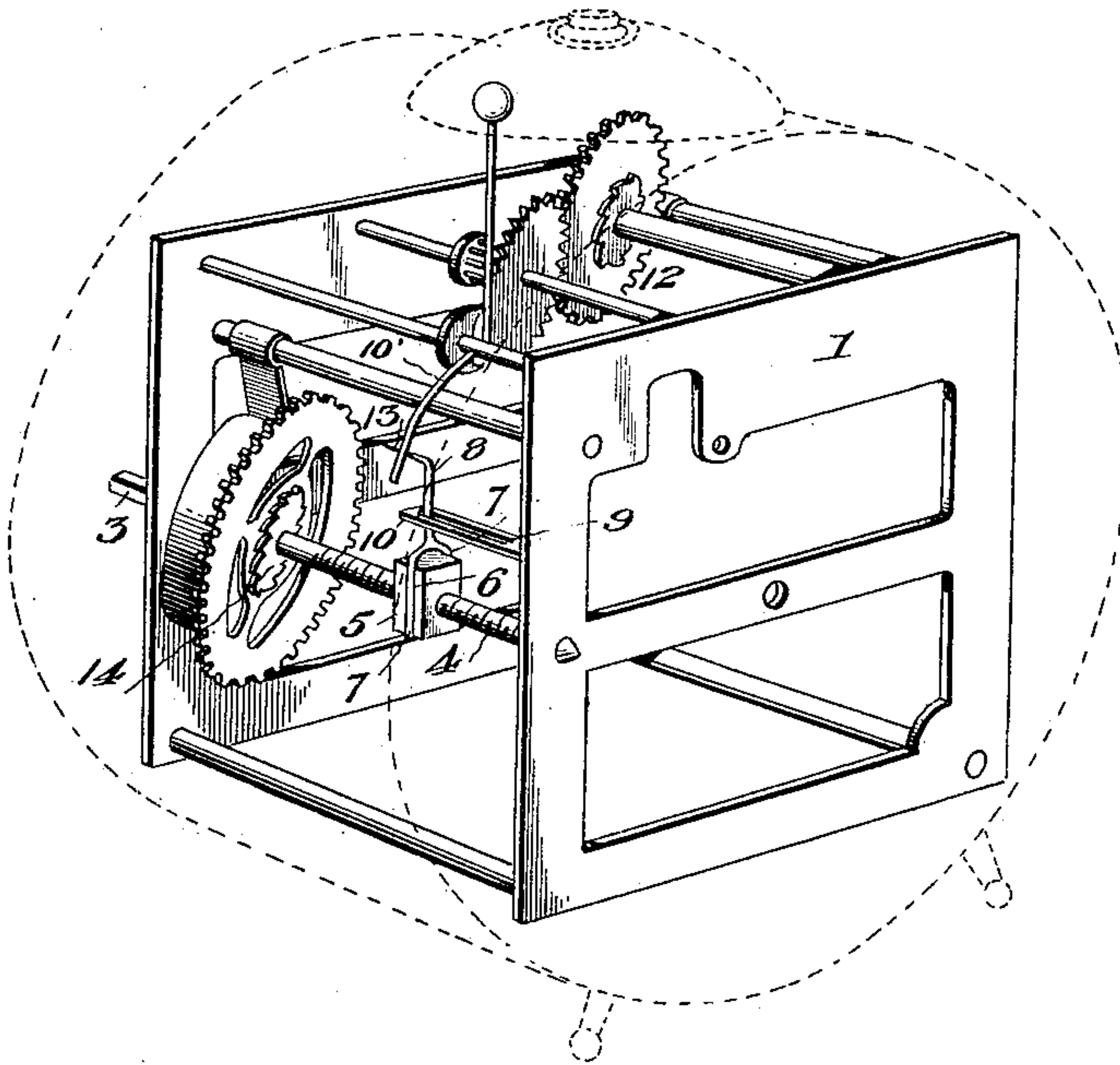


Fig. 1.

Fig. 2.

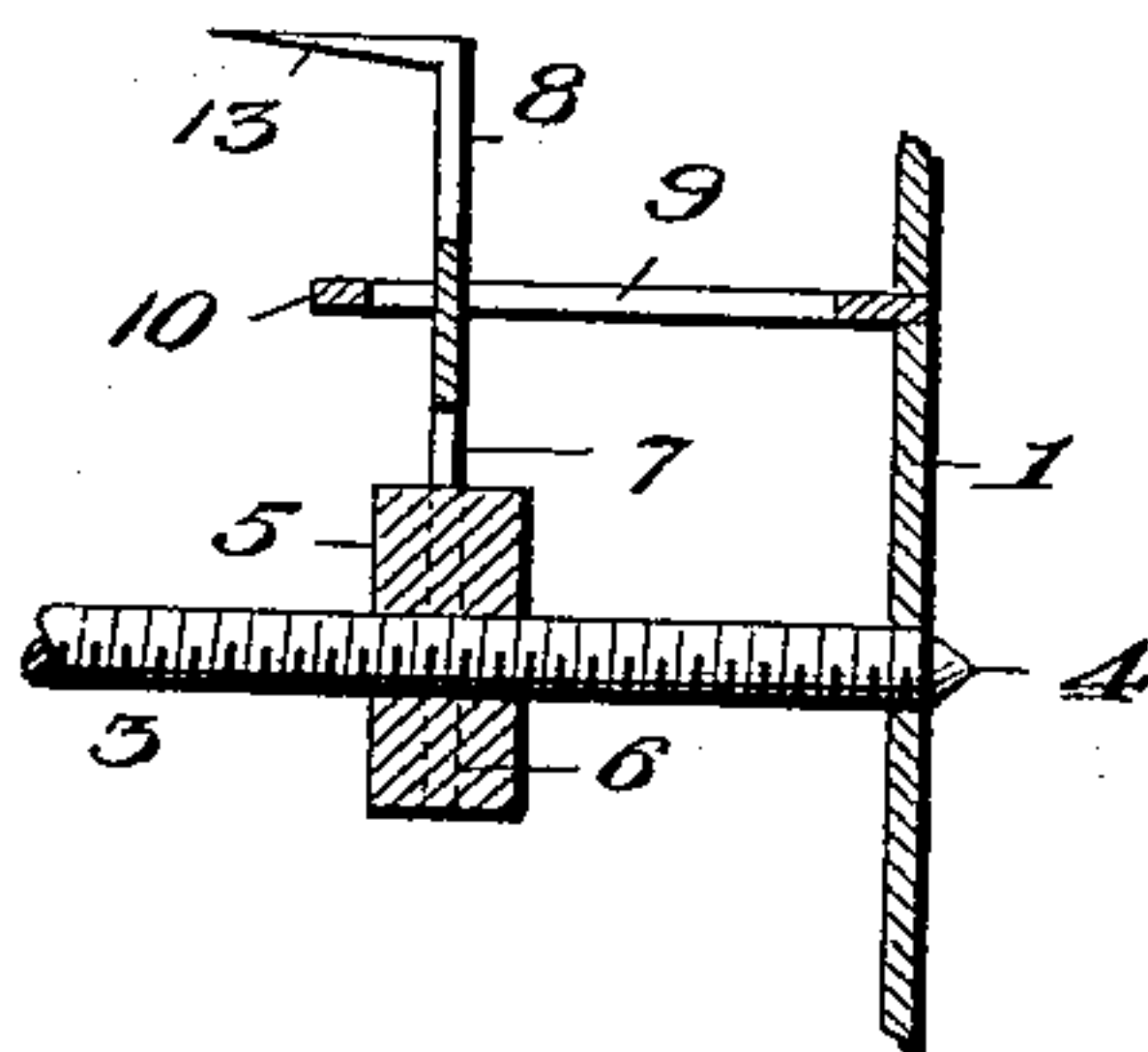
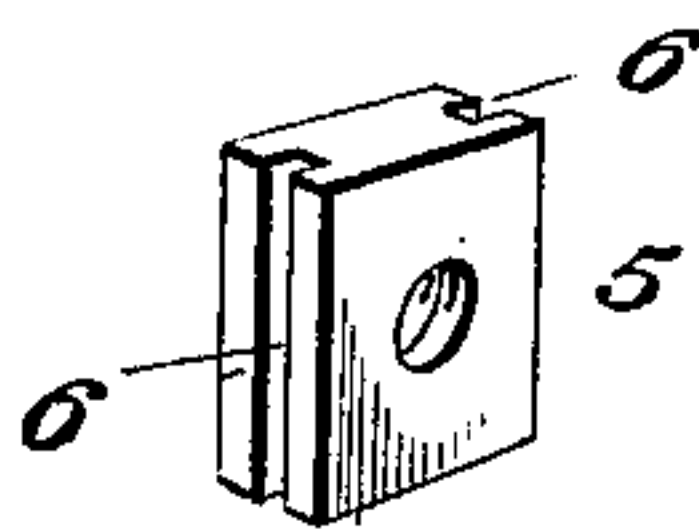


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM ERNEST LOTT, OF CHICAGO, ILLINOIS.

CLOCK-WINDING INDICATOR.

SPECIFICATION forming part of Letters Patent No. 614,402, dated November 15, 1898.

Application filed April 2, 1898. Serial No. 676,186. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM ERNEST LOTT, a subject of the Queen of Great Britain, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Clock-Winding Indicators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in indicators or alarm attachments for clocks and watches; and the object is to provide a simple device of this character to indicate when the clock or watch is about to "run down."

To this end the invention consists in the construction, combination, and arrangement of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

The accompanying drawings show my invention in the best form now known to me; but many changes in the details might be made within the skill of a good mechanic without departing from the spirit of my invention, as set forth in the claim at the end of this specification.

The same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of the winding shaft or axle of an ordinary spring-actuated clock with the alarm mechanism and my improved indicator mechanism connecting the main shaft and alarm mechanism. Fig. 2 is a vertical section of the same. Fig. 3 is a perspective detail of the rectangular nut.

1 denotes the clockwork-frame, the casing 2 being shown in dotted lines.

3 represents the winding-shaft, and it is formed with a threaded extension-shaft 4.

5 denotes a rectangular nut encompassing the threaded shaft 4, and its parallel sides are formed with vertical guide-grooves 6 6 to receive the bifurcated arms 7 7 of the angle-bar 8, the shank of which extends through the

guide-slot 9 in the stationary arm 10, fixed to the back-plate of frame 1. The free end of the shank of the angle-bar 8 is turned inwardly at a right angle to said shank, so as to form a finger 13, which projects into the path of the trip-wire 10, which controls the alarm mechanism 12 and which prevents the alarm from operating when the clock is wound up, and the traveling nut is consequently drawn up close to the ratchet-wheel 14. It will thus be seen that as the shaft 4 unwinds the nut is carried toward the outer end of said shaft, and consequently the finger 13 travels along the free end of the trip-wire 10, the adjustment of the finger and trip-wire being such that the finger will release the trip-wire at a certain predetermined point, preferably about an hour or two before the tension of the mainspring is exhausted and the clock run down.

Of course it will be understood that the attachment is equally adapted to a weight-actuated clock, and by reducing the parts to correspond the same mechanism may be applied to a watch as well.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

The combination in a clock attachment, of the threaded shaft 4, the nut 5 mounted on said shaft and provided with the parallel grooves 6, 6, the angle-bar 8 having its bifurcated arms 7, 7, encompassing said nut and having its outer end terminating in the right-angular finger 13 arranged to project into the path of the trip-wire 10 connected to the alarm mechanism, substantially as shown and described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM ERNEST LOTT.

Witnesses:

O. W. REDDEN,
JOHN DUGGAN.