

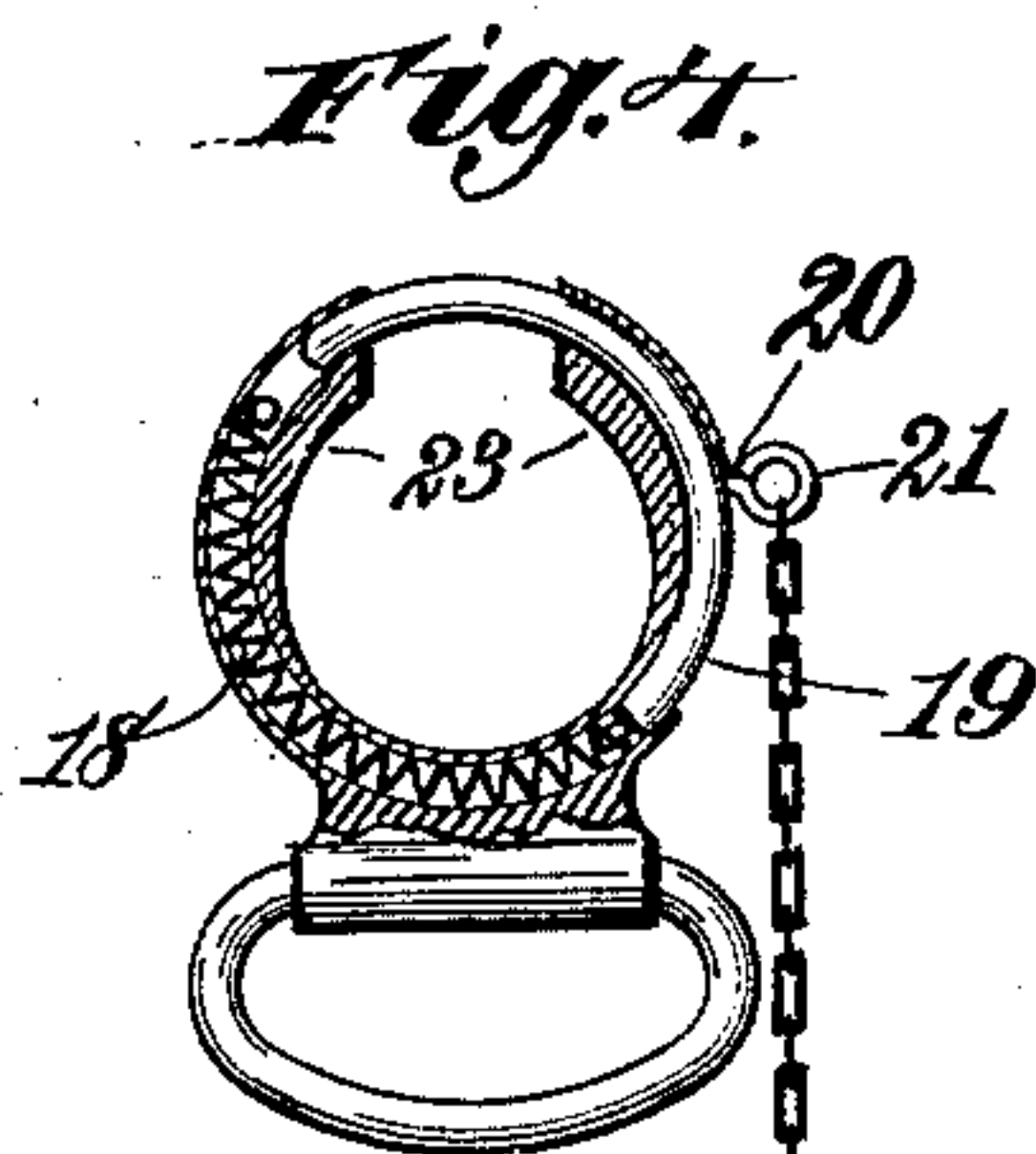
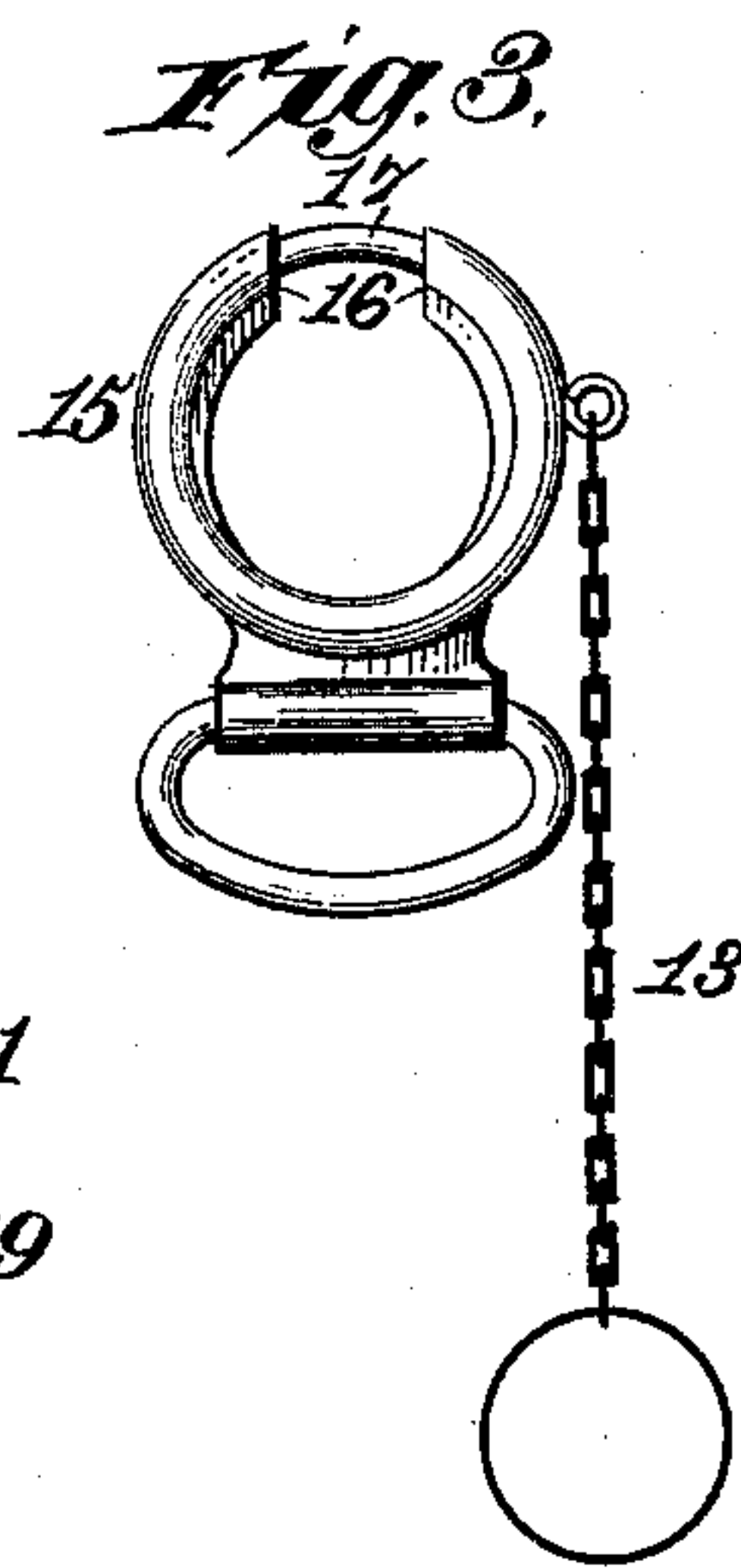
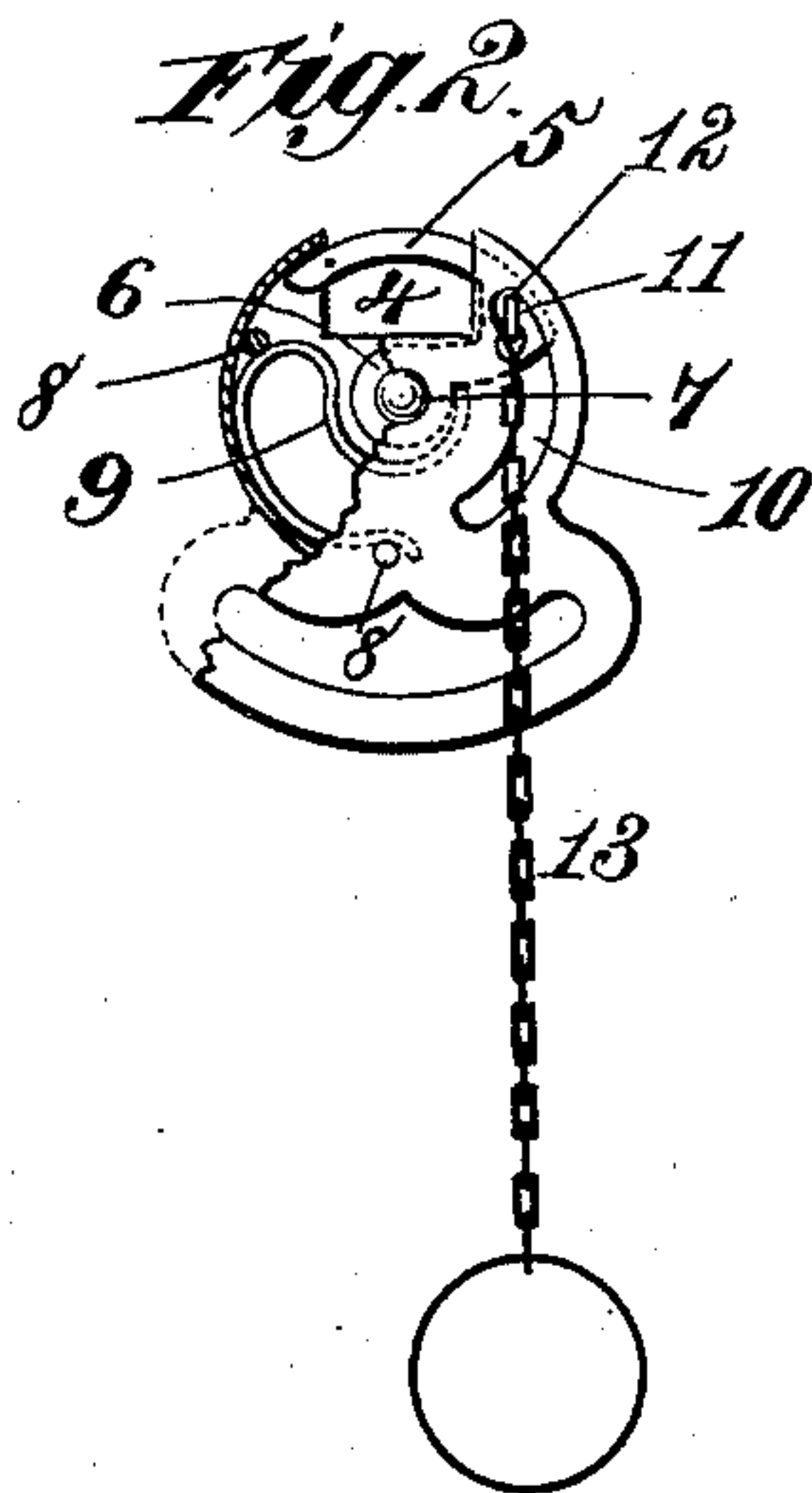
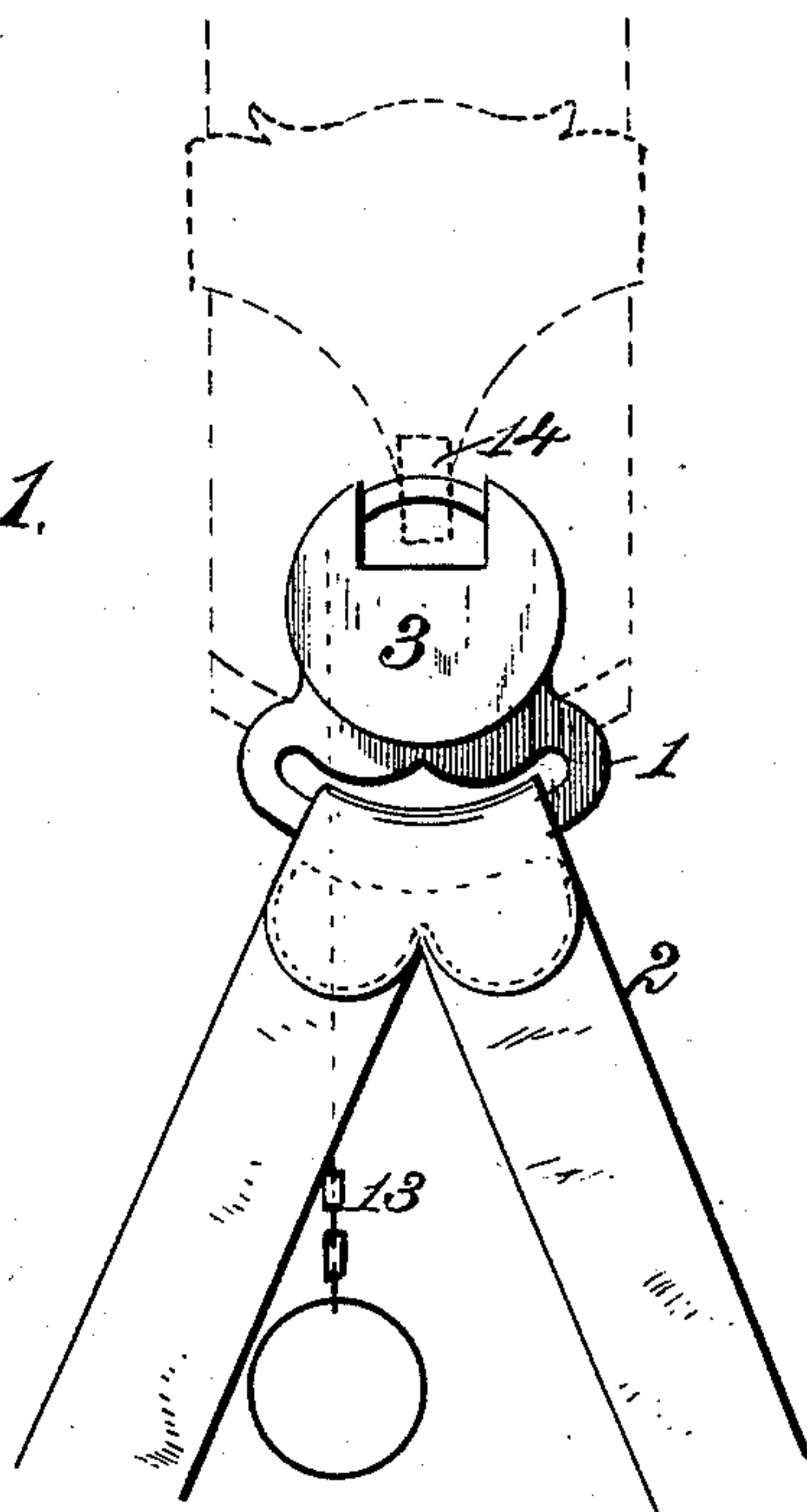
(No Model.)

F. KELLY.  
SUSPENDERS.

No. 307,054.

Patented Oct. 21, 1884.

*Fig. 1.*



Witnesses.  
*Robert Everett.*  
*Jo. L. Coombs*

Inventor:  
*Fergus Kelly.*  
By *James L. Norris.*  
*Atty.*

# UNITED STATES PATENT OFFICE.

FURGUS KELLY, OF DERBY, ASSIGNOR TO THE OSBORNE & CHEESMAN COMPANY, OF ANSONIA, CONNECTICUT.

## SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 307,054, dated October 21, 1884.

Application filed July 23, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, FURGUS KELLY, a citizen of the United States, residing at Derby, New Haven county, Connecticut, have invented new and useful Improvements in Suspenders, of which the following is a specification.

The invention relates to suspenders, and has for its purpose to provide a cheap, simple, and ornamental cast-off attachment, whereby the suspender-ends may be instantaneously detached from the buckle, to avoid the necessity of constantly buttoning and unbuttoning said parts.

The invention consists, essentially, in a cast-off attachment for suspenders, comprising a loop or holder having an opening and a slide-bar for closing the opening and engaging a loop or similar device carried by a part of the suspenders.

Other features of the invention will be hereinafter described and claimed.

Referring to the drawings forming part of this application, Figure 1 is a front elevation.

Fig. 2 is a rear elevation, part of the plate being broken away to show the interior. Fig. 3 is a front elevation showing a modification. Fig. 4 is a similar view, partly in section, showing the actuating-spring.

In said drawings, the reference-numeral 1 indicates the plate or loop to which the suspender-ends 2 are attached. Formed upon this plate or attached thereto in any suitable manner is a casing, 3, which may be of a circular form or of any desired shape, having an opening, 4, cut from its upper edge toward the center. The entrance to this opening is closed by a curved slide-bar, 5, having an arm, 6, which is pivoted upon a central rivet, 7, said arm being provided with a leaf-spring, 9, having its end bearing upon the under side thereof upon one side of the pivotal point, the spring being held in place by stud-pins 8 within the casing. By the pressure of this spring the slide-bar 5 is normally thrown across the opening 4.

In the rear wall of the casing 3 is formed a curved slot, 10, through which projects a pin, 11, which is rigidly attached to the rear end of the slide-bar 5, and has an eye, 12, to which is attached a chain, 13, having a ring or other

suitable device upon its end, by which it may be grasped. By drawing downward upon this chain the slide-bar will be retracted against the tension of the spring 9, and by releasing the chain the slide-bar will be again thrown by the spring across the entrance to the opening 4.

In use, the loop 14 of the suspender-buckle is inserted within the opening and the slide-bar closed. When it is desired to cast off the suspender-ends, drawing upon the chain will instantly release said loop from the slide-bar.

As a modification in construction, I may substitute for the casing 3 a tubular ring, 15, having its continuity broken between the points 16, and the curved slide-bar 17 being arranged within the ring upon one side of the opening and thrown forward to close the latter by a spring, 18. A slot, 19, is cut upon the back of the ring 15, and a pin, 20, is passed through said slot and firmly attached to the slide-bar 17. This pin has an eye, 21, to which is fastened a chain or cord, 22. By drawing upon the latter the slide-bar will be retracted in the manner already described. Upon the inner surface of the ring, upon each side of the opening, is formed or attached a flange, 23, the end contiguous to the opening being beveled off, so that it lies in a vertical plane, or nearly so. The loop of the suspender-buckle being inserted within the opening of the ring and the slide-bar closed, the ends of the buckle-loop will lie between the ends of the flanges, and when the slide-bar is thrown back the flange end will prevent the buckle-loop from riding up on the opposite part of the ring, which would interfere with the ready detachment from the buckle.

Instead of the chains for retracting the slide-bar, I may use a cord, tape, or other suitable device; or I may dispense with the same entirely, and attach to the pin which projects from the slide-bar through the slot in the casing or ring a small button, which may be operated by the finger. The slide-bar which closes the opening in the ring enters an aperture in the latter when in engagement with the buckle, thus giving support to both ends of said bar.

This invention provides a simple, neat, and convenient cast-off attachment, which is comparatively inexpensive and very durable. It



is instantaneous in operation, and both suspender-ends may be cast off at the same time and readily attached.

Having thus described my invention, what I claim is—

1. A cast-off attachment for suspenders, consisting of a loop or holder having an opening, a slide-bar for closing said opening and engaging a loop, and a device for retracting the slide-bar, substantially as described.

2. The combination of a suspender-buckle, a loop or holder having an opening, and a spring-impelled slide-bar for closing said opening, substantially as described.

3. A cast-off attachment for suspender-ends, consisting of a loop or plate to which the suspender-ends are attached, provided with an opening at the top adapted to be closed by a spring-actuated slide bar or pin, and means for retracting said slide bar or pin, whereby

the suspender-ends may be connected with or detached from the suspender-buckle, substantially as described.

4. In a cast-off attachment for suspenders, the combination, with a loop or plate to which the suspender-ends are secured, of a circular casing or ring attached to or formed upon said plate, having its continuity broken upon one side by an opening to admit the buckle-loop, a spring-actuated slide-bar which closes said opening, a pin attached to said bar and projecting through a slot in the casing or ring, and a chain or cord connected with said pin, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FURGUS KELLY.

Witnesses:

W. F. OSBORNE,

G. W. CHEESMAN.