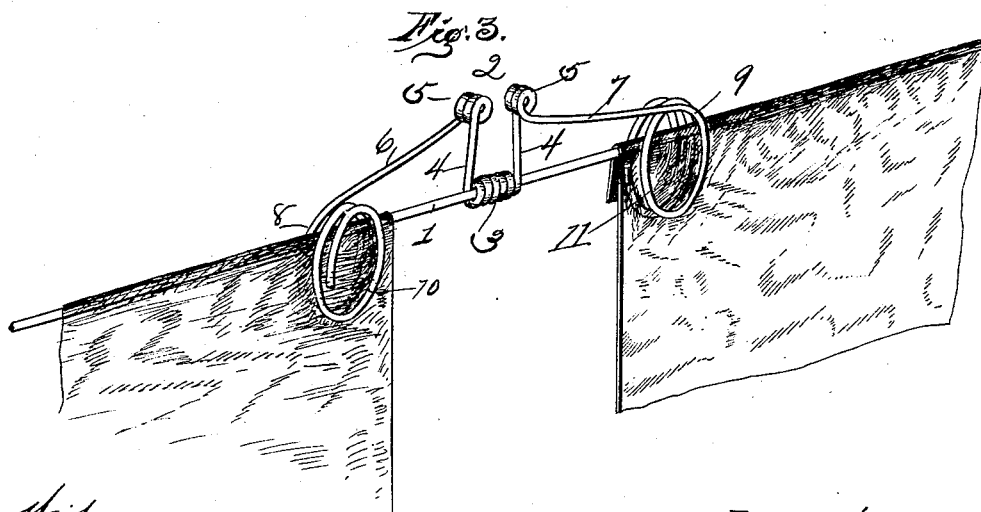
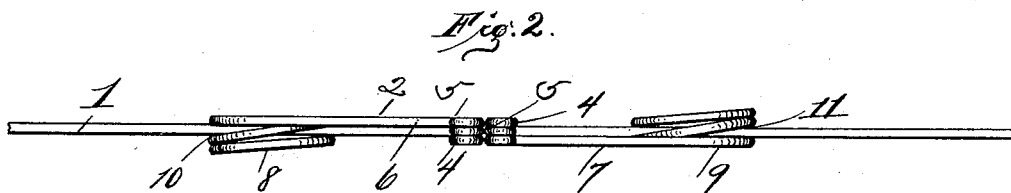
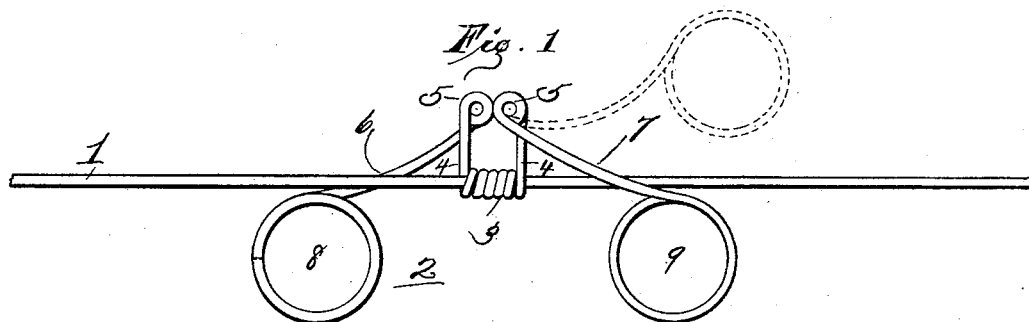


(No Model.)

W. C. POPPLEWELL.  
MOVABLE CLOTHES PIN.

No. 493,516.

Patented Mar. 14, 1893.



Witnesses.  
W.B. Smith.  
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# UNITED STATES PATENT OFFICE.

WILLIAM C. POPPLEWELL, OF EUREKA SPRINGS, ARKANSAS.

## MOVABLE CLOTHES-PIN.

SPECIFICATION forming part of Letters Patent No. 493,516, dated March 14, 1893.

Application filed October 28, 1892. Serial No. 450,270. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM C. POPPLEWELL, of Eureka Springs, Carroll county, Arkansas, have invented certain new and useful Improvements in Movable Clothes-Pins, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in clothes pins or retainers, and my object is to produce a clothes pin or retainer formed of a single piece of wire, a suitable number of them being slipped upon the clothes line, preferably of wire, but which may be of rope if desired.

Another object is to produce a pin or retainer impossible to detach, except by sliding it from the end of the clothes line; and also to produce a clothes pin or retainer that is durable and inexpensive of construction, and which can be easily attached to or removed from the line when desired.

To the above purposes, my invention consists in certain peculiar and novel features of construction and arrangement, as will be hereinafter described and claimed.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which,—

Figure 1. is a side elevation of my clothes pin or retainer in its normal position upon a clothes line, the dotted lines showing the position assumed by one of the arms, to allow the end of the garment to be folded over the line. Fig. 2. is a plan view of Fig. 1. Fig. 3. is a perspective view of a clothes pin or retainer, in position upon the clothes line, and claspings or securing the ends of garments to the said line.

In the drawings,—1 designates a clothes line, of spring wire preferably, but which may be of rope if desired.

2 designates a clothes pin or retainer, formed of a single piece of spring wire, and bent spirally at its center a suitable number of times, to form a cylindrical tube or sleeve 3, from the opposite ends of which the arms 4 extend upwardly, and a suitable distance above the tube or sleeve 3 are bent spirally and, preferably in opposite directions, and transversely of the tube or sleeve 3. After

a suitable number of turns have been made to produce the stiff spring coils 5, the arms 6 and 7, parallel to each other in plan view, and on the opposite ends of the coils 5, are carried divergently downward and outward, and enlarged spirals, 8 and 9, are formed with the ends of the wire, respectively, at the ends of the arms 6 and 7; each spiral 8 and 9 is formed of two or more convolutions or coils; the spiral 8 being formed forwardly of the arm 6, and the spiral 9 rearwardly of the arm 7, as illustrated in Figs. 2 and 3. The clothes pin or retainer thus formed is then secured upon the line 1 by inserting one end of the line through the sleeve or tube 3, of the pin; and the pin or retainer is then slipped upon the line to any desired position.

The formation of the spirals at the outer ends of the arms 6 and 7, forwardly and rearwardly thereof, cause the longitudinal alignment of the spaces 10 and 11, between two of the convolutions or coils of the said spirals, and the line is clamped in the said spaces, on the opposite sides of the centrally bearing sleeve 3.

To suspend a garment from the line, as illustrated in Fig. 3, elevate the desired spiral and corresponding arm to the position shown in dotted lines, Fig. 1; fold the end of the garment over the line, and allow the spring arm to descend and the spiral to engage and clamp the garment firmly upon the line.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A clothes-pin or retainer, formed of a single piece of spring wire, comprising a spirally formed tube or sleeve, an arm or brace extending upwardly from each end of said sleeve, coils formed by bending the wire at the upper ends of said arms or braces, downwardly divergent arms extending longitudinally of the tube or sleeve and from said coils, and spirals formed at the outer ends of said longitudinally extending arms, substantially as described.

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

WILLIAM C. POPPLEWELL.

Witnesses:

W. M. BROWN,  
F. J. MORSE.