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L. L. HYLER

2,343,672

WIRE TENSIONING UNIT
Original Filed April 21, 1942

Fig. 1

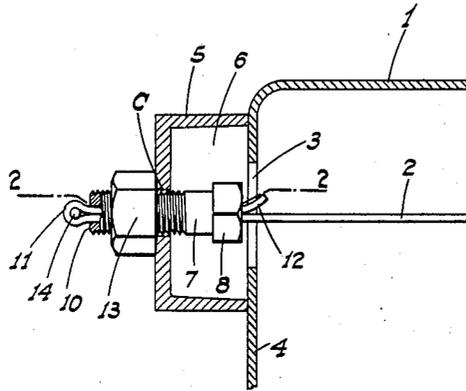
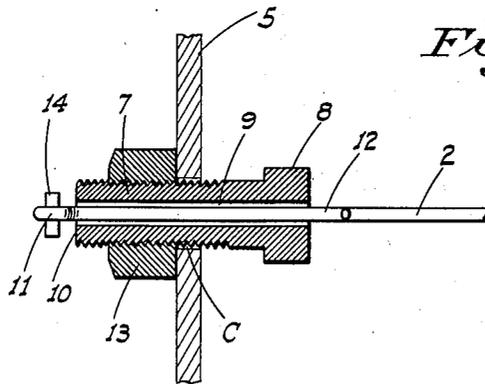


Fig. 2



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UNITED STATES PATENT OFFICE

2,343,672

WIRE TENSIONING UNIT

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Original application April 21, 1942, Serial No. 439,853. Divided and this application June 16, 1943, Serial No. 491,065

3 Claims. (Cl. 24-68)

This invention relates in general to, and it is an object to provide, an improved wire tensioning unit; said unit being adjustable and especially designed for use in connection with the ends of the supporting wires in a sheet or drawing hanging cabinet, as shown for example in U. S. Patent No. 2,324,582 dated July 20, 1943 of which the present application is a division.

A further object of the present invention is to provide an adjustable wire tensioning unit, as above, in which the adjustment element, when the unit is mounted on a cabinet or the like, is disposed outside of the latter so that adjustment of the unit and tensioning of the connected wire may be accomplished without disturbing or removing any contents suspended in the cabinet from the wire.

A further object of the invention is to produce a simple and inexpensive device, and yet one which will be exceedingly effective for the purpose for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawing similar characters of reference indicate corresponding parts in the several views:

Figure 1 is an elevation, partly in section of the unit in use.

Figure 2 is an enlarged longitudinal section on line 2-2 of Fig. 1.

Referring now more particularly to the characters of reference on the drawing, the numeral 1 indicates a portion of a sheet or drawing hanging cabinet, as for example is shown in full in the above identified U. S. patent; each suspending wire 2 passing at its ends through a port or opening 3 in the corresponding side wall 4 of the cabinet.

A cap 5, initially open at its inner end, is secured to the outside of wall 4 with said initially open end engaging the wall in surrounding relation to the port 3; said cap forming a chamber 6 with which port 3 communicates. The outer end of cap 5 is formed with a central opening C through which a cap screw 7 projects, the head 8 of said cap screw being disposed within chamber 6.

The cap screw 7 is formed with a longitudinal and central bore 9 through which the adjacent end portion of the wire 2 is threaded through the cap screw from the head end to and beyond the other or outer end 10 thereof. The portion of the wire which projects beyond said outer end

of the cap screw is then looped to form an eye 11 and is then threaded back through the cap screw and bent laterally as at 12.

A nut 13 is threaded on the cap screw exteriorly of the cap 5 and abuts the outer end thereof. With tightening of the nut 13, the wire 2 is placed under tension. To prevent the eye 11 from pulling through bore 9, a transverse pin 14 is disposed and frictionally supported in said eye.

As the adjustment nut 13 is disposed outwardly of the wall 4, tensioning of the wire 2 can be accomplished without removing any contents suspended from said wire in the cabinet.

In addition, the use of the cap 5 mounted as described, permits the tensioning unit to be disposed so that it does not project into the cabinet, and consequently does not obstruct use of the cabinet from wall to wall thereof.

From the foregoing description it will be readily seen that I have produced such a device as substantially fulfills the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention, as defined by the appended claims.

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

1. An adjustable wire tensioning unit adapted to be connected between a support and one end of a wire, said unit comprising a screw substantially longitudinally alined with the wire, a support having an opening through which the screw projects, the screw having a longitudinal bore there-through, an adjacent end portion of a wire extending through the bore and being looped beyond the outer end of the screw to form an eye whereby said eye prevents retraction of the wire through said bore, and an adjustment nut threaded on the screw and engaging the side of the support opposite said wire; there being a relatively short cross pin projecting through and frictionally supported in said eye.

2. An adjustable wire tensioning unit adapted to be connected between a support and one end of a wire, said unit comprising a cap screw having a longitudinal bore therethrough, an adjacent end portion of a wire extending through said bore from the head end of the cap screw, being looped as an eye beyond the other end, and then

extending back through the bore to a termination beyond said head end, said eye being larger than the diameter of the bore, a support having an opening through which said cap screw projects from one side, and an adjustment nut threaded on the cap screw and engaging the other side of the support.

3. A wire tensioning unit as in claim 2 in which said portion of the wire adjacent said termination and beyond the head end of the cap screw is bent laterally to prevent relative movement of the screw and said wire.

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