L. H. CULVER.

HAT LEASH.

APPLICATION FILED JUNE 2, 1917.

1,260,340. Patented Mar. 26, 1918.

Fig. 1.

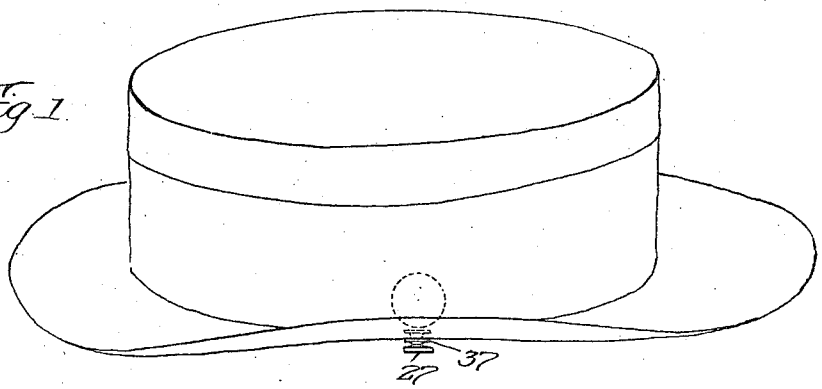


Fig. 2.

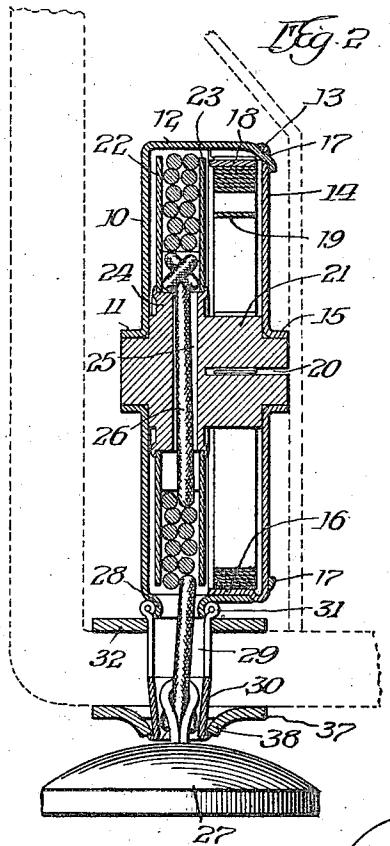
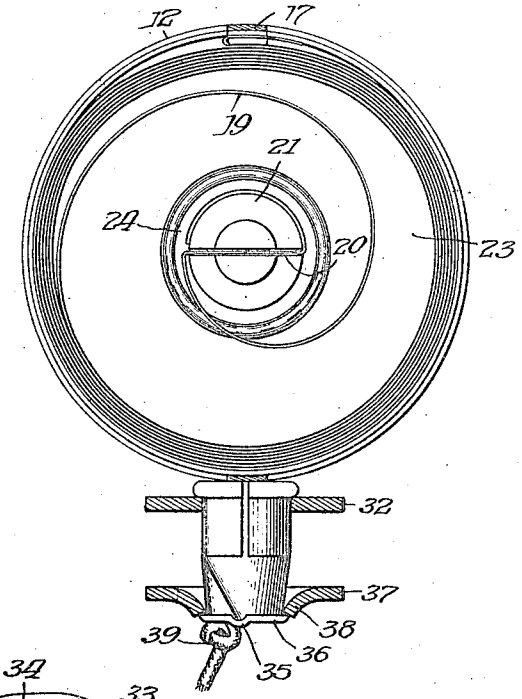


Fig. 3.



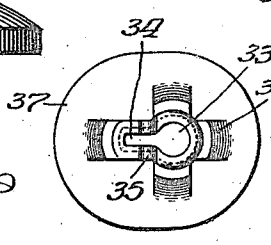


Fig. 4.

Witness:

F. C. Dorion

Inventor

Lewis H. Culver

By Chas. J. Murray

Atty.

BACKETT & WILHELMS CORP. N.Y.

UNITED STATES PATENT OFFICE.

LEWIS H. CULVER, OF CHICAGO, ILLINOIS.

HAT-LEASH.

1,260,340. Specification of Letters Patent. Patented Mar. 26, 1918.

Application filed June 2, 1917. Serial No. 172,438.

To all whom it may concern:

Be it known that I, LEWIS H. CULVER, a citizen of the United States, and residing in Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Hat-Leashes, of which the following is a specification.

My invention relates to a device for securing a hat or head covering against accidental loss and is an improvement on the construction shown in my copending application Serial No. 167,807, filed May 10, 1917.

An object in the present construction is to so simplify the device as to enable its economical production in quantities. This includes not only simplification in the mechanism but in the means of assembling and attachment to the hat.

A further object is to so design the apparatus that it may be constructed of extremely small size; in fact of such minute proportions that it may be readily accommodated beneath the band of a hat without being noticeable. The illustration in the drawing is, of course, much enlarged being about five times actual size. To economically construct a device having these minute proportions involves invention in the selection of the parts whereby sufficient strength to resist the necessary strains is present.

The invention will be more readily understood by reference to the accompanying drawing, wherein:

Figure 1 is a perspective view of a hat to which the improvement has been applied;

Fig. 2 is a vertical section (much enlarged) showing the casing in operative position;

Fig. 3 is a side elevation, partly in section, showing the spiral spring and the detail of the fastening elements, and,

Fig. 4 is a bottom plan view of the eyelet by means of which the cord is fastened in its extended position.

In the drawings it will be seen that the device is intended to be located beneath the band of a hat and is of such size as to be unnoticeable. As constructed the diameter of the casing is equal to that of a silver dime while its over-all thickness is .29 inch.

The device includes a casing 10, having an axial opening surrounded by a flange 11. A peripheral flange 12, is provided with notches at its margin with which lugs 13, carried by the side closure 14, engage. The side closure, or side wall as it will be called, is provided with an axial opening registering with the opening in the member 10, which likewise is surrounded by a flange 15. A peripheral flange 16, is provided on the side wall 14, which snugly fits within the peripheral portion 12. After the parts are assembled as shown, the marginal edge 17, of the flange 12, is crimped over the periphery of the side wall 14. A tongue 18, is struck out of the metal of the flange 16, and lies a short distance away from the body of metal composing the flange. This tongue serves as the means for attachment for the outer end of a spiral spring 19, the end of which, as shown in Fig. 3, is hooked over the tongue. The inner end of the spring engages with a slot 20, in the hub or shaft 21, of the pulley. The reduced ends of the shaft engage in the axial openings in the casing 10, and side wall 14. The pulley is composed of two flat disks 22, 23, which are secured to a center 24, which is integral with the shaft 21, by crimping the metal around the inner periphery of the disks. A transverse opening 25, is provided in the center and the cord or leash is threaded therein and held by a suitable knot at the end thereof. The cord will preferably be a high grade braided silk line. The cord is wound on the pulley and terminates in a button 27. The button may engage a buttonhole on the coat of the wearer.

Provided in the part 12, in the casing is an opening surrounded by an undercut flange 28. Thus a rounded edge is provided for the opening which will prevent abrasion of the cord as it passes therethrough.

The means employed for attaching the device to the hat and for guiding and fastening the cord are constituted by the tube having the upper slitted portion 29, and the lower tapered portion 30. At the upper end of the portion 29, I provide a peripheral bead 31, which engages with the undercut flange 28, the parts being sprung into engagement due to the resiliency of the metal. As the means for holding the tube in secure engagement with the casing I provide a washer 32, which fits the tube and when the parts are in the position shown in Fig. 2, prevents disengagement of the tube from the casing. This is due to the fact that the slitted portion of the tube cannot expand sufficiently to pass over the flange surrounding the opening in the casing.

The lower portion 30, of the tube is shaped

as best shown in Fig. 4; that is, the outlet therefrom is of substantially the shape of a keyhole there being the circular opening 33, and the narrow or contracted opening 34. At the junction between the narrow and wide portions I provide the lugs or bulged portion 35. The lower end of the tube is surrounded by a peripheral flange 36, and a washer 37, having tongues 38, engages the tube for the purpose of holding the parts securely in engagement with the brim of the hat. Due to the resiliency of the metal composing the tongues 38, the washer may be expanded or sprung over the flange 30, and when in the position shown cannot be disengaged without distorting the washer. By this means it will be seen that the device is securely held in position on the hat.

As a means for retaining the cord in its extended position, I provide a knot 39, in the cord near its inner end. The knot is of such size that it may readily pass through the large part 33, of the outlet from the tube but will not pass through the contracted portion. Furthermore, when in position the knot lies behind the lugs 35, and therefore will not be displaced until the cord is pulled and the knot swung from beneath the lugs.

There are possibilities of modifications in the structure shown and such modifications as are within the scope of my claims I consider within the spirit of my invention.

I claim:

1. In a device of the class described, the combination of a casing having an outlet opening, a tube fitted to said opening, said tube being adapted to project through the material of which the hat is composed, the outlet from said tube being in the form of a keyhole and adapted to act as a catch for a cord, substantially as described.

2. In a device of the class described, the combination of a casing having a flanged outlet opening, an outlet tube fitted over said flanged outlet, and a washer adapted to lie against the brim of a hat and when in operative position to retain said tube in proper relation to said casing, substantially as described.

3. In a device of the class described, the combination of a pulley, a support therefor, a tube for conducting a cord, and means for removably clamping said tube to said support and for securing the tube to a hat, substantially as described.

4. In a device of the class described, the combination of a support, a spring-controlled pulley mounted thereon, an outlet tube, said tube and support being provided with cooperating ribs and grooves, a ring encircling said tube and adapted to hold the same in position, and means for fastening said tube to the brim of a hat.

5. In a device of the class described, the combination of a casing, a pulley mounted therein, a coiled spring connected to the pulley and to the casing, said casing being provided with an outlet having an undercut flange, a tube, one end of which is split and which is adapted to engage said undercut flange, and a washer slidably mounted on said tube and adapted when in operative position to prevent the spreading of the tube and disengagement from the casing, substantially as described.

6. In a device of the class described, the combination of a casing, a spring-controlled pulley mounted therein, a tube detachably secured to the casing, the lower end of said tube being shaped to provide an opening having a contracted portion, substantially as described.

7. In a device of the class described, the combination of a casing, a spring-controlled pulley mounted therein, a tube detachably secured to the casing, the lower end of said tube being shaped to provide an opening having a contracted portion, and means for securing said tube to a hat, substantially as described.

8. In a device of the class described, the combination of a casing, a spring rotated pulley therein, a tube detachably secured to the casing and serving as a conduit for a cord carried by the pulley, an upper washer serving to retain the tube in connection with the casing, and a lower washer serving to secure the device to a hat brim, substantially as described.

9. In a device of the class described, the combination of a casing having a tubular conduit connected thereto, the lower end of said conduit being provided with a peripheral flange, said tube being adapted to be projected through the material of a hat brim, upper and lower washers for securing the tube and casing in position, said lower washer being constructed to be sprung into place over the peripheral flange on the tube, substantially as described.

Signed at Chicago, Ill., this 31st day of May, 1917.

LEWIS H. CULVER.

Witness:
T. D. BUTLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."