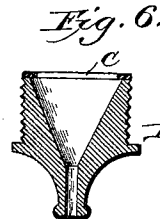
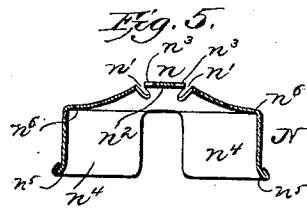
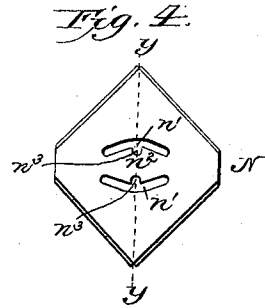
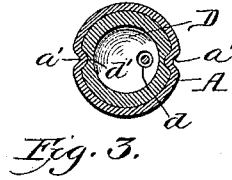


G. J. LEONHART.
BILLIARD CHALK HOLDER.

Patented Aug. 2, 1892.



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UNITED STATES PATENT OFFICE.

GEORGE J. LEONHART, OF ASHLAND, OHIO.

BILLIARD-CHALK HOLDER.

SPECIFICATION forming part of Letters Patent No. 479,889, dated August 2, 1892.

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To all whom it may concern:

Be it known that I, GEORGE J. LEONHART, a citizen of the United States, residing at Ashland, in the county of Ashland and State of Ohio, have invented certain new and useful Improvements in Chalk-Holders; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has relation to billiard appliances of the type known as "chalk-holders;" and it consists, first, in an improved device for suspending the chalk holder or receptacle in a convenient position for access by the players, thereby dispensing with the employment of the chalk-holding cups usually placed under the rail of the table, and, secondly, in a novel construction of a chalk-holder embodying the features hereinafter set forth.

The particular objects had in view are not only to gain simplicity and cheapness in construction, but in the case of the suspending device to provide a construction of such character as to thoroughly protect the operating mechanism from the deleterious effects of dust, which, as is well known, arises in unusual quantities during the chalking of cue-tips, thus effectually preventing the working parts from being clogged, and also in the case of the chalk-holder to provide a construction adapted to permit of the ready insertion of chalk of varying sizes and the secure retention thereof until removal, together with a ready and secure provision for attaching the suspending-cord to the chalk-holder.

With the above and other objects in view the invention consists in the improved construction and combination of parts, as hereinafter more fully described and set forth.

In the accompanying drawings, Figure 1 is a side view of the complete device in position to be attached to a ceiling or other medium of support. Fig. 2 is a perspective view with the casing in section to disclose the interior mechanism and also showing a part of the weight broken away. Fig. 3 is a horizontal section through the outer casing and

weight on the line $x x$, Fig. 1. Fig. 4 is a plan view of the chalk-holding cup. Fig. 5 is a cross-sectional view on the line $y y$, Fig. 4; and Fig. 6 is a sectional view of the lower cap.

Like letters of reference refer to like parts throughout the several views.

Referring to the drawings, the letter A indicates the outer tubular casing of the supporting device, provided at diametrically-opposite points with exterior longitudinal grooves forming inner projections or guides $a' a'$. The lower end of the casing is open and screw-threaded interiorly, as indicated at a^2 , said open end adapted to receive the male threads of an apertured screw-threaded cap B, the latter having seated upon its inner end a washer C.

The letter D indicates a tubular weight having an open bottom and closed top, the former provided with an aperture d and with a bracket E, within which is journaled a sheave or pulley F. The weight is furthermore provided exteriorly and at diametrically-opposite points with longitudinal grooves or recesses $d' d'$, into which the projections or guides $a' a'$ of the casing fit.

The letter G indicates the top or cover for the casing, provided upon its upper surface with an eye m which receives a screw-eye H for suspending the device.

Depending from the under side of the top or cover is a bracket g' , which is provided with angular side extensions $g^2 g^2$, having screw-threaded apertures $g^3 g^3$. The bracket is further provided upon its lower extremity with a rubber washer I and has journaled between its side members upper and lower sheaves or pulleys J and K, respectively. This depending bracket, as clearly indicated, extends into the casing, and the screw-threaded apertures of its angular side extensions register with apertures $a^3 a^3$ in said casing, the registering apertures receiving screws L L, whereby the cover and bracket are firmly held in position.

The letter M indicates the operating-cord, having one end secured to the upper portion of the bracket E. Said cord is then extended upward, first passing over lower sheave K within bracket g' , thence downwardly around sheave F, upwardly again over sheave J, and

finally downward through the tubular weight and through the screw-cap at the lower end of the casing, the cord being provided at a suitable point upon its exterior portion with a double knot m' , limiting the upward movement through the aperture of the screw-cap. The object of employing the three sheaves F J K is to reduce or shorten the travel of the weight, thus also reducing the length of the suspending device and economizing in the cost of tubing.

The operation is as follows: The device being arranged as shown in Fig. 1, when it is desired to chalk a cue all that is necessary to be done is simply to exert a pull upon the cup-holder, and as this is done the cord is drawn downward, which necessarily causes the weight to ascend upon its guides until the top of the bracket E comes in contact with the lower end of the upper bracket g' , the rubber cushion or washer thereon saving wear to the contacting parts. The moment the chalk-holder is released the weight descends, its downward movement being limited by contact with the screw-cap B, which is likewise protected from wear by the washer C. If desired, however, the knot m' upon the cord may be so arranged as to come in contact with the lower or outer end of the screw-cap and limit the downward movement of the weight before the latter strikes the inner end of said cap.

Referring now to the chalk-holder, it will be seen upon reference to Figs. 4 and 5 of the drawings that the same is struck up from a single piece of thin metal. This holder is indicated by the letter N, and its top has its center raised or of an approximately concavo-convex form, as indicated at n , with two elongated slots $n'n'$, slightly angular in shape, forming a central strip n^2 , having its greatest width at its center, where it is provided with opposite recesses $n^3 n^3$. Around this strip and into the recesses is passed the lower end of the operating-cord, said cord having a knot formed on the end thereof and is held securely with said knot, preferably upon the under side of the strip. By this means of securing the cord the same is held most firmly, and considerable saving in wear results.

The clamping-springs of the holder are indicated by the letters $n^4 n^4$. These springs are formed by bending down the metal and cutting away two obliquely-opposite corners, thus forming obliquely-opposite angular clamping-springs, the lower edges of said springs being bent or flared outwardly, as indicated at n^5 , so as to provide for the ready insertion of the chalk, and, if desired, these edges may be turned back upon the metal, as shown in the drawings, to form rounded corners, which will prevent the chalk from catching on the edges when being inserted.

As is well known, billiard-chalk comes in square blocks, often varying considerably in size. It is for this reason that I cut the an-

gles or corners of the holder, thereby giving considerable spring motion and elasticity to the clamps and enabling them to be spread apart for the accommodation of the different sizes of chalk, and, when said chalk is in position, firmly clamping and retaining the same, the upper part of the chalk resting against the plane surface n^6 , surrounding the concavo-convex portion of the top of the holder. The angular slots $n'n'$ facilitate the spring movement of the clamps.

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

1. In a chalk-holder for billiard-tables, pool-tables, and the like, the combination of an outer casing provided at diametrically-opposite points with inward projections or guides, a tubular weight provided at diametrically-opposite points with grooves or recesses engaged by the guides and having a closed top, said top provided with an aperture and having a bracket extending therefrom, a sheave or pulley journaled in said bracket, a top or cover for the casing, provided upon its upper side with means for attachment and having a bracket depending from its under side, said bracket provided with angular side extensions with screw-threaded apertures registering with similar apertures in the casing and adapted to receive retaining-screws, upper and lower sheaves journaled in said bracket, and an operating-cord, one end thereof attached to the weight-bracket and extending upward over the lower pulley of the cover-bracket, downward around the pulley of the weight-bracket, thence upward over the upper pulley of the cover-bracket, and finally downward through the weight and casing, its lower end having the chalk-clamp secured thereto, substantially as set forth.

2. In a chalk-holder, the combination of a casing having its lower open end provided with interior threads, a weight having a vertical movement within the casing, an apertured screw-cap inserted in the threaded end of the casing, said screw-cap constructed to receive a washer in its upper end, with which the weight normally contacts, and a cord for operating the weight, substantially as set forth.

3. A chalk-holder or clamping device consisting of a blank having its edges turned downwardly to form clamping springs or flanges, the top of said blank provided with elongated angular slots to form a central web or strip, said web or strip being widest at its center and provided at such point with opposite recesses to receive the operating-cord, substantially as set forth.

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

GEORGE J. LEONHART.

Witnesses:

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