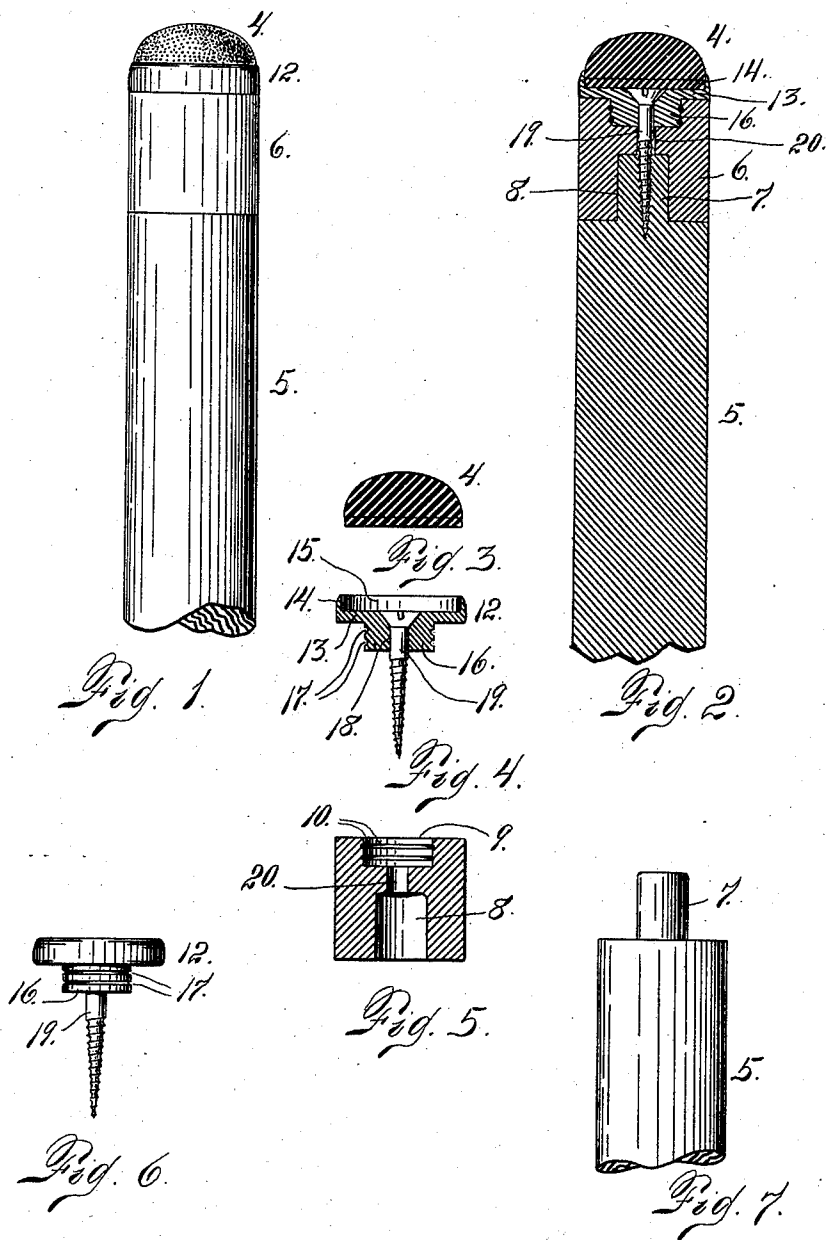


E. A. SACKET.
 CUE TIP HOLDER.
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Patented Feb. 21, 1911.



Witnesses
Otto E. Hoddick
C. H. Rossmeyer

Inventor
Edward A. Sacket
 By *A. J. O'Brien*
 Attorney

UNITED STATES PATENT OFFICE.

EDWARD A. SACKET, OF DENVER, COLORADO.

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To all whom it may concern:

Be it known that I, EDWARD A. SACKET, a citizen of the United States, residing at the city and county of Denver and State of Colorado, have invented certain new and useful Improvements in Cue-Tip 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 and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in cue tip-holders, my object being to provide a device of this class adapted to securely retain the cue tip, provision being made for readily inserting the tip in the holder.

My improved holder is adapted to be connected with the cue in such a manner that it will not readily become loose. In this respect it has an important advantage over other devices of its class, so far as I am aware.

An important feature of my improved holder consists in a shoulder or collar projecting from the body or base of the holder and entering a counterpart recess in the end of the cue or in the ivory ferrule connected therewith. This shoulder or collar is of such depth that by the use of glue, cement or shellac, the holder may be retained in place without the use of other fastening means.

However, I prefer to employ a screw whose head is countersunk in the bottom of the holder and passes through the collar thereof, through an opening in the body of the ivory ferrule, and into the wood of the cue-stick, where the ivory ferrule is employed.

Another important feature of my improvements consists in a relatively thin flange or rim projecting from the bottom of the holder and serving to retain the tip in place. The tip when it is inserted in the holder causes this rim or flange to spring slightly outwardly and after the tip is in place, there is sufficient tension on the rim or flange to serve the important purpose of retaining the tip in place. While the holder, for the reasons above stated, is adapted to automatically retain the tip in place, if the tip inserted should be slightly small for the holder or if for any reason it should be deemed desirable, a small amount of glue, cement or shellac may be

employed in connection with the holder for retaining the tip in place, though ordinarily the spring flange or rim alone is all that need be employed. The retaining collar or shoulder is preferably circumferentially grooved, while the recess or socket in which it is inserted is correspondingly grooved for the purpose of holding cement or other retaining means.

Having briefly outlined my improved construction, I will proceed to describe the same in detail, reference being made to the accompanying drawing, in which is illustrated an embodiment thereof.

In this drawing: Figure 1 is a side elevation of a billiard cue with my improved device applied, a large portion of the cue being broken away. Fig. 2 is a longitudinal section of the same. Fig. 3 is a section of the cue-tip shown in detail. Fig. 4 is a sectional view of my improved tip-holder with the securing screw in place. Fig. 5 is a sectional view of the ivory ferrule recessed to receive my improved tip-holder. Fig. 6 is a side detail elevation of the improved tip-holder. Fig. 7 is an elevation of a cue-stick without the ivory ferrule but fashioned for connection with the same, the body portion of the stick being broken away.

The same reference characters indicate the same parts in all the views.

Let the numeral 5 designate the cue-stick and 6 the ivory ferrule applied thereto. As illustrated in the drawing the forward extremity of the cue-stick is provided with a reduced portion 7 adapted to enter a socket 8 formed in the ferrule 6. This ferrule, in order to receive my improved tip-holder, is provided with a recess 9 having grooves 10. The tip-holder 12, as illustrated in the drawing, consists of a disk 13 having a relatively thin flange or rim 14 projecting upwardly or outwardly from the disk, forming a socket 15 adapted to receive the tip 4 which is of ordinary construction. Projecting downwardly from the disk or in a direction opposite the projection of the flange, is a collar or shoulder 16 which is circumferentially grooved as shown at 17 to harmonize with the grooves 10 formed in the recess 9 of the ivory ferrule. This shoulder 16 is adapted to fit closely in the recess 9 and may be secured therein by the use of a suitable packing material or by the employment of glue, cement, or other preferred retaining substance. The disk, together with the shoul-

der 16 is provided with a perforation 18 adapted to receive a retaining screw 19, the disk having a recess to receive the head of the screw, whereby the latter is countersunk, the head of the screw being flush with the top of the disk or the bottom of the cup or socket in which the tip is located.

In assembling the parts, the holder 12 is applied to the ferrule 8 by inserting the shoulder 16 in the recess 9 of the ferrule, and securing the same in any suitable manner. The screw 19 is then applied, the same being passed through a plain opening formed in the disk and its shoulder and an opening 20 formed in the ferrule 8, below which the screw enters the reduced portion 7 of the cue-stick, (see Fig. 2).

From the foregoing description, the advantages of my improved device will be readily understood. Heretofore, so far as I am aware, cue tips, which have been applied to all cues have had a perfectly flat surface applied to the top of the cue and held in place thereon only by the use of cement or other similar retaining substance. With devices of this character it is evident that the tip will readily become loosened and then it can only be secured in place by first filing off the remaining glue or other substance until the end of the cue is perfectly clean, and then recementing the tip in place. Under these circumstances the cue must be laid aside for a considerable length of time in order for the glue or cement to set or become hard.

With my improved device, if a cue-tip becomes detached from the holder, the user of the cue can insert a new tip or another of the same size very quickly and proceed with the play, without changing cues.

It must be understood that my improved cue tip-holder is adapted to be applied to cues whether they have ivory, fiber or wood points or ends.

An important advantage of my improved cue tip-holder over those constructions where the tip is applied directly to the end of the cue, consists in the fact that my holder prevents the splitting of ivory pointed or wood cues, since the holder which is interposed between the tip and the end of the cue, receives the jar or shock, thereby protecting the end of the cue from the concussion to which it is directly subjected in the case of cues having the tips directly applied.

As heretofore indicated, the shoulder 16 of my improved cue tip-holder, forms a rigid support for the fastening screw and prevents the latter from becoming loosened, as the result of lateral thrusts, during the use of the cue, whereby the blows in striking the balls are directed in lines forming angles with the axis or longitudinal center line of the cue. Attention is also called to the fact that the spring-rim or flange 14

projects slightly inwardly, to facilitate the retaining of the tip in place.

Having thus described my invention, what I claim is:

1. A cue tip holder comprising a disk, having an integrally formed, depending shoulder of less circumference than the disk, the shoulder being adapted to enter a recess of counterpart shape formed in the end of the cue, the disk and shoulder being perforated and a screw passed through the said perforation and entering the cue stick, substantially as described.

2. The combination with a cue stick having a reduced extremity, of an ivory ferrule applied thereto and having a socket in one extremity adapted to receive the reduced extremity of the cue stick, and a socket also in its forward extremity, a cue tip holder comprising a disk, having a spring ring or flange for retaining the tip in place, and a depending shoulder of less circumference than the disk adapted to enter the forward socket of the ivory ferrule, the disk and the shoulder being perforated and the ferrule having a registering perforation communicating with the two sockets thereof, and a screw passed through the said perforations and entering the cue stick for retaining the holder in place, for the purpose set forth.

3. A cue tip holder, comprising a disk, having an integrally formed depending shoulder provided with annular grooves, the said shoulder being adapted to enter a recess of counterpart shape formed in the end of the cue stick, the wall of the recess being also provided with annular grooves, the grooves being filled with a suitable adhesive material, and a fastening screw passed through the shoulder and entering the cue stick, for the purpose set forth.

4. The combination with a cue stick having a reduced extremity, of a ferrule applied thereto and having a socket in one extremity adapted to receive the reduced extremity of the cue stick and a socket also in its forward extremity, a cue tip-holder comprising a disk having means for retaining the tip in place, and a depending shoulder of less circumference than the disk adapted to enter the forward socket of the ferrule, the disk and the shoulder being perforated and the ferrule having a registering perforation communicating with the two sockets thereof, and a screw passed through the said perforations and entering the cue stick for retaining the holder in place.

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

EDWARD A. SACKET.

Witnesses:

A. J. O'BRIEN,

ELIZABETH BOWEN.