

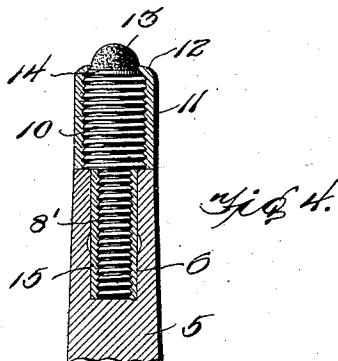
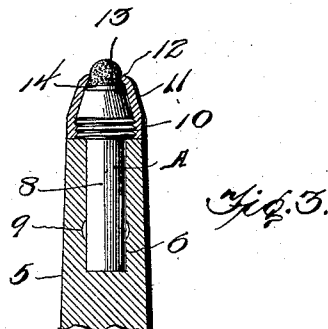
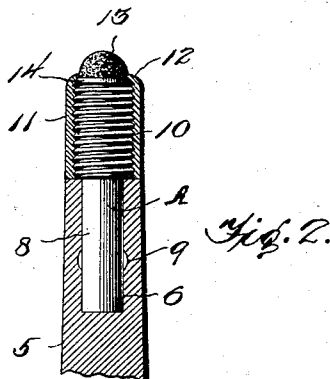
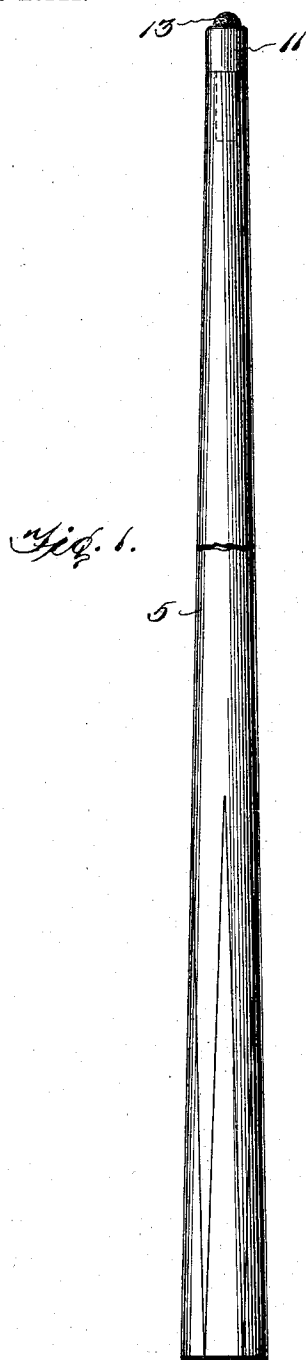
No. 743,041.

PATENTED NOV. 3, 1903.

H. SEELINGER.
BILLIARD CUE TIP.

APPLICATION FILED OCT. 28, 1902.

NO MODEL.



Witnesses:

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UNITED STATES PATENT OFFICE.

HENRY SEELINGER, OF NORFOLK, VIRGINIA.

BILLIARD-CUE TIP.

SPECIFICATION forming part of Letters Patent No. 743,041, dated November 3, 1903.

Application filed October 28, 1902. Serial No. 129,169. (No model.)

To all whom it may concern:

Be it known that I, HENRY SEELINGER, a citizen of the United States, residing at Norfolk, in the county of Norfolk and State of Virginia, have invented certain new and useful Improvements in Billiard-Cue Tips; 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 letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in billiard-cue tips, and has particular relation to devices which will removably secure the tip to the end of the cue.

The object of the invention is to provide a device by means of which the tip can be readily and removably secured to the end of the cue, providing a support for the tip at the base thereof and without the necessity of the use of a ferrule for the cue or the formation of screw-threads on the cue.

A further object of my invention is to provide a structure by means of which tips of different sizes may be used interchangeably on the cue.

The above and such other objects as may appear from the description of my invention are attained by the improved construction and combination of parts hereinafter more fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is an elevation of a cue embodying my invention. Fig. 2 is an enlarged sectional view of the tip end of the cue, illustrating my improvements. Fig. 3 is a similar view of a modified form. Fig. 4 is a similar view of a means for securing a tip interchangeably.

5 designates a cue of any suitable or preferred form, in the tip end of which is an opening 6, bored or otherwise formed therein, extending longitudinally of the cue and centrally thereof. The periphery of the cue is in no wise affected, and the opening 6 is substantially smooth, being free from the re-

quirements of forming screw-threads or other securing means.

A designates the permanent member, comprising a rod or spindle portion 8 of suitable length and having its surface roughened, as by serrations or small projections, as said rod having one end enlarged, as at 10, the periphery of such enlarged portion being screw-threaded, as shown.

11 designates the removable or securing member or cap, which has its inner surface formed to fit the exterior of the enlarged portion 10, the form shown in Fig. 2 being screw-threaded to fit the screw-threads on the enlarged part 10. The outer end of the member 11 is slightly flared inwardly, as at 12, to extend over the curved surface of the tip 13 to prevent, in connection with the usual backing 14 of the tip, the tip from becoming loose.

As shown, the enlarged portion 10, with the member 11 in position, is of a diameter equal to the diameter of the end of the cue, thereby leaving the external surface of the cue end free from projections, it being substantially flush throughout its tip end.

The mode of securely attaching my improvements to any ordinary cue is as follows: The spindle portion of the permanent member A is driven into the opening 6, which it snugly fills. The tip is then placed in position on the end of the enlarged portion 10 and the member 11 screwed down to its proper position, the member 11 being of a length to abut against the end of the cue when the inwardly-flared portion 12 is in close contact with the tip.

It will be readily perceived that the flared portion 12 of the member 11 contacts with the sloping or rounded portion of the leather tip near the base thereof without cutting into and thereby weakening said tip and rigidly secures the tip in its proper position against the end or outer face of the aforesaid permanent member A. Furthermore, the flared portion of the member 11 is of a size which is larger than that of any portion of the tip projecting from it. Hence all pressure exerted by the tip when the cue is being used is borne by the enlarged portion 10, the cap

being free from any such pressure. This prevents any liability of the tip being damaged in any manner, insuring a tip of proper shape at all times.

5 The members A and 11 may be formed as shown in Figs. 2 or 3, the former showing the enlarged portion 10 of equal diameter throughout its length to receive a large tip, or the enlarged portion may be cone-shaped, as
10 shown in Fig. 3, the conical part being smooth, the member 11 having a shape corresponding with that of the surface of the enlarged portion 10. This latter form permits of the use of a small tip without the necessity of having the cue end of a size to correspond with
15 the size of the tip.

Where it is desired to provide means for interchangeably using a small or large tip with the same cue, the rod may be screw-threaded, as shown at 8', Fig. 4, and be removably secured within a sleeve 15, having
20 its outer periphery formed similar to that of the rod 8 when adapted to be driven into the opening 6, such construction being similar to that shown in Figs. 2 and 3, with the excep-
25 tion that the rod is formed in two parts screw-threaded together, as shown in Fig. 4. In this construction a tip of large or small size may be readily secured in position by changing the attaching device.
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Having thus described my invention, what I claim as new is—

1. The combination with a cue, having its end provided with a longitudinally-extending opening; of a tip-attaching device seated
35 in said opening, said device comprising a member having a diameter greater than that of the opening, and a cap fitting over said member and removably secured thereto, the
40 front end of said cap removably securing the

cue-tip in position against the free end of said member, said cap being free from pressure of the tip during use of the cue.

2. The combination with a cue having its end provided with a longitudinally-extending opening; of a tip-attaching device seated
45 in said opening, said device comprising a cue-tip support abutting against the end of the cue and of larger diameter than said opening at the point of contact of cue and support,
50 and a cap removably seated on and fitting said support, the front end of the cap being flared to retain the cue-tip in position against the end of the support, said cap being free from pressure of the tip during use of the cue.
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3. The combination with a cue having its tip end provided with a longitudinally-extended opening; of a tip-attaching device comprising a metallic member having a spindle portion and an enlarged head or end portion on which a tip is seated, and means for
60 rigidly securing the tip against the said enlarged portion, said means being free from pressure of the tip during use of the cue.

4. The combination with a cue having its tip end provided with a longitudinally-extended opening; of a tip-attaching device comprising a metallic member having a spindle portion and an enlarged screw-threaded head or end portion, and means cooperating
65 with the tip for rigidly securing the latter against both longitudinal and lateral movement, said means being free from pressure of the tip during use of the cue.

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

HENRY SEELINGER.

Witnesses:

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