

(No Model.)

T. P. FOLGER.
CUE TIP.

No. 553,905.

Patented Feb. 4, 1896.

Fig. 1.

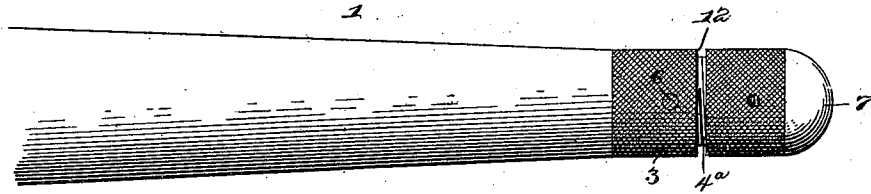


Fig. 2.

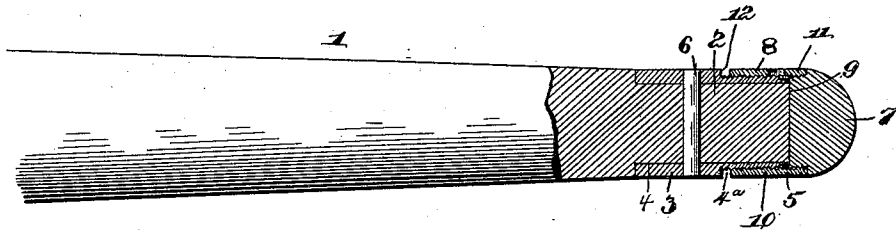


Fig. 3.

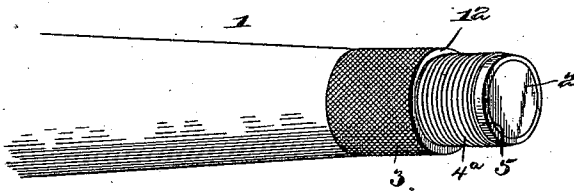


Fig. 5.

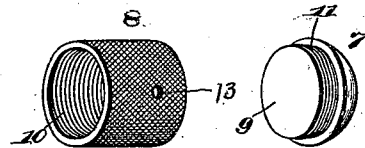


Fig. 6.

Fig. 4.

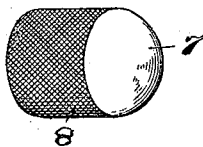


Fig. 7.



Inventor

Thomas P. Folger.

Witnesses

Wm. T. Doyle
J. H. Piley

By his Attorneys.

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

THOMAS P. FOLGER, OF NEW BRUNSWICK, NEW JERSEY.

CUE-TIP.

SPECIFICATION forming part of Letters Patent No. 553,905, dated February 4, 1896.

Application filed June 16, 1894. Serial No. 514,774. (No model.)

To all whom it may concern:

Be it known that I, THOMAS P. FOLGER, a citizen of the United States, residing at New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and useful Cue-Tip, of which the following is a specification.

The invention relates to improvements in cue-tips.

10 The object of the present invention is to improve the construction of billiard and pool cues and to provide simple, inexpensive, and effective means whereby the leather tip may be quickly and accurately applied to the cue.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

20 In the drawings, Figure 1 is an elevation of a portion of a cue provided with a tip constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a detail perspective view of the end of the cue, the coupling-sleeve and the leather tip being removed. Fig. 4 is a detail perspective view of the coupling-sleeve and tip. Fig. 5 is a similar view of the coupling-sleeve. Fig. 6 is a detail view of the tip. Fig. 30 7 is a detail view of the wrench.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

35 1 designates a billiard-cue having its outer end reduced to form a tenon 2, and arranged on the tenon is a ferrule 3, having a smooth inner portion 4, which is flush with the exterior surface of the cue and provided with an outer threaded portion 4^a, the threads terminating short of the outer end of the ferrule to form a smooth annular portion 5. The outer end of the ferrule is flush with the outer end of the cue, and the ferrule is fastened on the tenon of the cue by a transverse rivet 6.

40 A leather tip 7 is secured to the cue by a coupling-sleeve 8. It has its inner face 9 resting flat against the end of the cue in order to make the latter as solid and the tip as accurate as those cues which have their tips secured by glue, cement, or the like. The coupling-sleeve 8 is interiorly threaded at 10, and is of the same diameter throughout its entire

length. The tip 7 is provided at its inner end with exterior screw-threads 11, forming an annular shoulder or stop, and it screws into the outer end of the coupling-sleeve, and when the latter is screwed on the threaded portion of the ferrule it does not contact with the shoulder 12 in order that the threaded portion 4 of the ferrule may be of sufficient length to enable the tip to be screwed squarely against the outer end of the cue. By this arrangement the leather tip may be applied to a cue as accurately as those which are glued on, and this application does not require much time, but the cue may be practically continuously used.

At this point attention is directed to the special function of the smooth annular portion 5 at one end of the ferrule 3, inasmuch as the said smooth annular portion is important to insure a perfectly-square contact between the flat inner face 9 of the tip and the end of the cue. It will be obvious that when the coupling-sleeve 8 is fitted on the threaded portion 4^a of the ferrule the smooth annular portion 5 necessarily leaves an annular cavity or space between the outer tip end of the ferrule and said coupling-sleeve, which cavity or space allows the inner peripheral edge of the leather tip 7 to be drawn sufficiently tight over the outer tip end of the ferrule 3 to positively insure a precise square contact between the inner flat side of the tip and the end of the cue.

85 The coupling-sleeve is provided with an opening or socket 13 to enable it to be engaged by a wrench 14, and the exposed surfaces of the coupling-sleeve and ferrule are checkered or roughened in any suitable manner in order to present a dull appearance, so as not to interfere with the sight of a player.

It will be seen that the means for applying the leather tip to a cue are simple, inexpensive, and efficient, and that they enable a tip to be accurately and rapidly applied to a cue, and that as soon as a tip is applied the cue is ready for use.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

In a cue-tip, the combination of a cue provided at one end with a tenon, a ferrule rigidly and permanently fitted on said tenon and having its outer end flush with the outer end
5 of the cue, said ferrule being provided with an exteriorly-threaded portion terminating short of the outer end of the ferrule to leave at such point a smooth annular end portion,
10 an interiorly-threaded coupling-sleeve engaging the threaded portion of said ferrule and inclosing an annular cavity or space directly surrounding the smooth annular end portion of the ferrule, and a leather tip having a flat inner side and an exteriorly-threaded portion

removably engaging in the outer end of said 15 coupling-sleeve, said coupling-sleeve having a sufficient play on the threaded portion of the ferrule so as to tightly draw the inner peripheral edge of the leather tip over the outer tip end of the ferrule into said cavity or space, 20 substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

THOMAS P. FOLGER.

Witnesses:

JAMES MCMURTRY,
FRANK A. ROBBINS.