

(No Model.)

C. N. BRIGGS.
BILLIARD CUE TIP.

No. 529,775.

Patented Nov. 27, 1894.

Fig. 1.

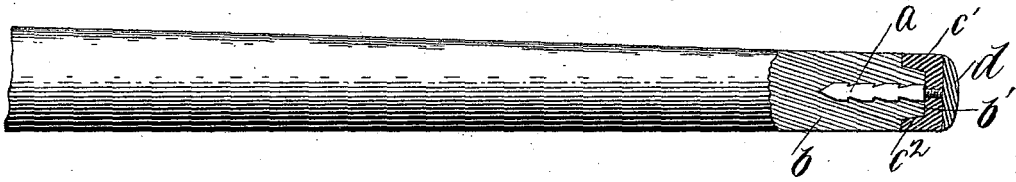


Fig. 2.



Fig. 3.

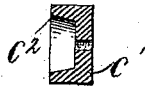


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES N. BRIGGS, OF CHICAGO, ILLINOIS.

BILLIARD-CUE TIP.

SPECIFICATION forming part of Letters Patent No. 529,775, dated November 27, 1894.

Application filed November 27, 1893. Serial No. 492,112. (No model.)

To all whom it may concern:

Be it known that I, CHARLES N. BRIGGS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Billiard-Cue Tips, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to billiard cue tips, and its object is to provide a tip that may be readily applied to the end of the cue, and easily replaced when worn; that shall not tend to split the end of the cue, and that shall be cheap of construction.

Heretofore, it has been proposed to secure a tip to a billiard cue by providing in the end of the cue a circular recess, from the bottom of which extends a tapering screw, so that a projection upon the butt piece when screwed thereon will be expanded against the walls of the recess to maintain the tip in position and prevent its working loose, the end of the screw extending into the cue being also tapering so that it may be wedged therein to prevent the turning of the screw when the tip is removed. This construction is objectionable because the tapering screw being wedged into the end of the cue the material thereof is strained, which strain is further augmented by the outward pressure of the butt piece upon the walls of the recess in the end of the cue. The material being thus under considerable strain, the tendency of a side blow given by the cue is to split the end of the cue. The construction is further objectionable since the cost of the screw tapered at the ends is considerable.

My invention consists, first, in providing instead of the tapering screw, a pin, the sides thereof being so fashioned that when the pin has been driven into the end of the cue, turning of the same will be prevented; the exposed end of the pin being provided with a screw thread upon which a butt piece of ebonite or kindred non-metallic material is adapted to be screwed.

My invention consists, second, in a butt piece provided with a flange having slightly tapering internal sides adapted to engage

correspondingly tapering sides upon a centrally located projection upon the end of the cue, whereby when the butt piece is screwed upon the end of the cue, the material of the end thereof is compressed, thus reinforcing the material of the cue and tending to prevent splitting of the cue, due to side blows.

My invention consists, further, in such other matter as shall hereinafter appear.

My invention will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 is a view partially in section showing a cue embodying my invention. Fig. 2 is a detail view of a pin notched to prevent turning. Fig. 3 is a sectional view of the butt piece. Fig. 4 is a view of the leather tip.

Like letters refer to like parts in the several figures.

A pin *a* is driven into the end of the cue *b*, its surface being provided with properly formed indentations or teeth into which the wood of the cue may expand to prevent the turning of the screw. In order to more thoroughly secure the pin and prevent its turning, the pin may be made square. When a round pin is used I preferably form indentations in the sides so that the material of the cue engaging with the straight surfaces of the bottoms of the indentations may prevent turning, but a pin with a smooth surface may be used when driven under such a pressure as to prevent turning when the butt piece is screwed on or off the threaded end. Upon the exposed end of the pin is provided a screw thread upon which a butt piece *c'* is adapted to be screwed. This butt piece I preferably make of ebonite, or similar non-metallic material which will not dent the ball. A tip *d* of leather is glued to the end of the butt piece. The butt piece *c'* is provided with a flange *c²*, the tapering inner walls of which are adapted to engage with the tapering sides of the centrally located projection *b'* upon the end of the cue, the outer edge of the butt piece being adapted to lie flush with the sides of the cue when secured in position. The engagement of the tapering walls of the flange with the correspondingly tapering sides of the projection *b'* tends to compress the material of the end of the cue, thus strengthen-

ing the same against tendency to split when glancing blows are struck which subject the cue to a transverse strain.

The billiard tips as thus formed may be readily removed from the cue when worn, by merely unscrewing the butt piece from the screw thread with which it is in engagement, the leather tip having been glued to the butt piece in preparing the tip for the market.

10 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a billiard cue, the combination with a cue provided upon its end with the centrally located projection *b'* provided with slightly tapering sides, of the butt piece *c'* carrying the flange *c²* provided with internal tapering walls adapted to engage and compress the material of said projection, said butt piece being provided with a tapped hole, a screw thread extending from the end of said projection *b'* and adapted to enter said tapped hole, and the tip *d* secured to the face of said butt piece, whereby the strength of the material of the end of the cue is reinforced, substantially as described.

2. The combination with a billiard cue provided upon its end with a central projection

b' formed integral with the material of the cue and provided with slightly tapering sides, of a metallic pin *a'* driven in the end of the cue and provided with a surface adapted to engage the wood of the cue to prevent the turning of the pin, the end of said pin projecting from the end of said central projection and provided with a thread, a butt piece *c'* of non-metallic material provided with a tapped hole adapted to engage the screw threaded end of said pin, said butt piece carrying a flange *c²* provided with interior tapering walls adapted to engage the tapering sides of said central projection when the butt piece is screwed into position, and a tip *d* secured to the face of said butt piece, whereby the material of the end of the cue is compressed and reinforced and the tendency of said pin to split out is prevented, while the wedging of said flange against said central projection prevents the working loose of the butt piece, substantially as described.

In witness thereof I hereunto subscribe my name this 22d day of November, A. D. 1893.

CHARLES N. BRIGGS.

Witnesses:

HARRIET G. TEMPLETON,
W. CLYDE JONES.