Feb. 10, 1925. 1,525,910

E. BLAIR.

DETACHABLE TIP FOR BILLIARD CUES

Filed July 8, 1924

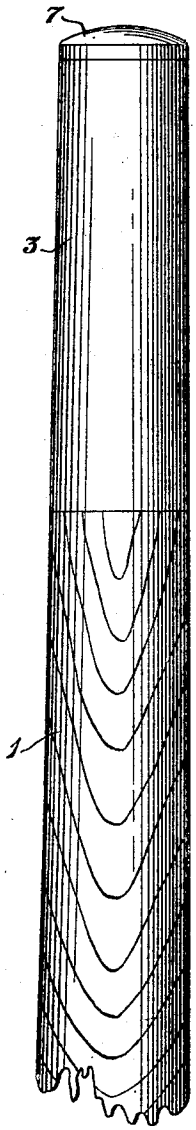


Fig. 1.

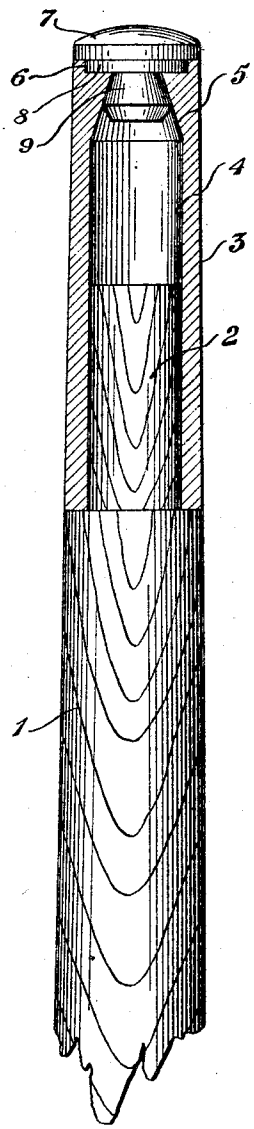


Fig. 2.

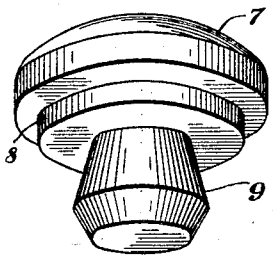


Fig. 3.

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UNITED STATES PATENT OFFICE.

ELLSWORTH BLAIR, OF CANTON, OHIO.

DETACHABLE TIP FOR BILLIARD CUES.

Application filed July 8, 1924. Serial No. 724,786.

To all whom it may concern:

Be it known that I, ELLSWORTH BLAIR, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Detachable Tips for Billiard Cues, of which the following is a specification.

This invention relates to tips for billiard cues, and the objects of the improvement are to provide a detachable tip formed of rubber or the like, which is securely held upon the end of the cue without the aid of glue or other adhesive agent, and which is so constructed that a blow may be struck with the side of the tip without temporarily displacing or distorting the tip.

It is understood that various attempts have been made to produce a billiard cue tip of rubber, but no provision has been made in any such tip to prevent temporary displacement or distortion of the tip when the player strikes the blow with one side of the tip, such as is common in placing "English" upon the ball.

The present invention contemplates the provision of a rubber tip having a central, conical, attaching tongue adapted to enter and be clamped within a conical socket in the ferrule, an annular shoulder being provided upon the tip for engagement in an annular socket in the ferrule to prevent sideways displacement or distortion of the tip.

An embodiment of the invention is illustrated in the accompanying drawing, in which—

Figure 1 is a side elevation of the end portion of a billiard cue provided with the improved tip;

Fig. 2, a longitudinal, sectional view of the same; and

Fig. 3, an enlarged, detail, perspective view of the improved tip.

Similar numerals refer to similar parts throughout the drawing.

The upper end portion of a billiard cue is shown at 1 and provided with the usual reduced shank 2 upon which the ferrule 3 is mounted, the ferrule being arranged to snugly fit upon the shank and to be secured thereto in any suitable manner.

The central bore 4, which is provided in the ferrule to accommodate the shank 2, is tapered at its upper end as at 5, terminating in the enlarged, annular socket 6.

The tip 7 is formed of rubber and provided with the annular shoulder 8 upon its under side, said shoulder being of slightly less diameter than the tip and adapted to fit snugly within the annular socket 6 of the ferrule, as shown in Fig. 2.

The frusto conical attaching tongue 9 is formed integral with the tip, upon the under side thereof, and adapted to fit snugly within the tapered portion 5 of the ferrule, being arranged to seat the tip firmly upon the end of the ferrule and to hold the annular shoulder 8 snugly within the annular socket 6 when the tip is assembled upon the cue, as shown in Fig. 2.

It will be seen that with this construction, a ball may be cued with the side of the tip, without danger of distorting the tip or shoving the same sideways upon the cue, the annular shoulder of the tip being held snugly within the socket of the ferrule, preventing side movement of the tip.

In attaching the tip to the cue, it is only necessary to compress the larger end of the attaching tongue 9 with the fingers and insert the same into the smaller end of the tapered bore 5 of the ferrule. The tip may then be turned and compressed into place, the attaching tongue being properly seated within the tapered bore, as shown in the drawing, and expanded to hold the tip snugly in place.

Although the tip cannot be accidentally detached, it may be easily removed for renewal by pulling the same straight out from the end of the ferrule.

It is known that a rubber tip will overcome several objectionable features found in the usual leather tip, as it obviates the necessity of using glue or the like to attach the tip, thus permitting a tip to be renewed and the cue to be again placed in use in a few minutes time.

The present tip also prevents the possibility of the tip being accidentally knocked from the end of the cue, as is common with leather tips glued upon the cue and also

does away with the necessity of using chalk or sand paper to keep the tip in proper condition for playing.

I claim:—

In a pool cue, a ferrule secured to the tip end of the cue and provided with an annular socket at its outer end and an upwardly tapered bore communicating at its smaller end with said socket, a rubber tip having an annular shoulder for engagement with said annular socket and a conical tongue upon the tip for engagement in said tapered bore.

In testimony that I claim the above, I have hereunto subscribed my name.

ELLSWORTH BLAIR.