A. O. OLAFSON.
CUE TIP AND FERRULE.
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1,307,922.

Patented June 24, 1919.

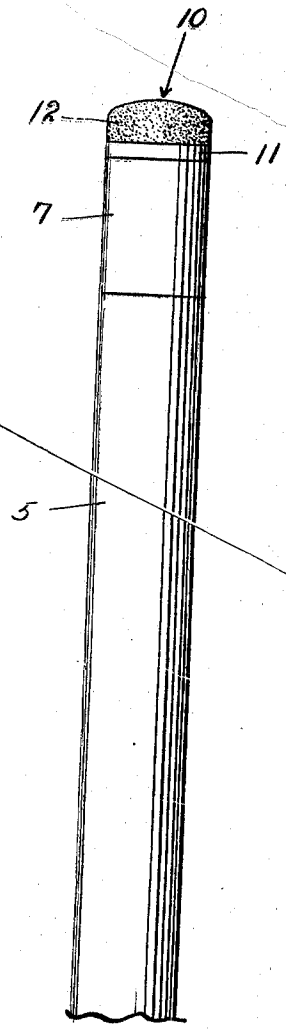


Fig. 1.

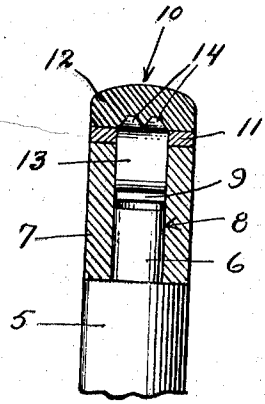


Fig. 2.

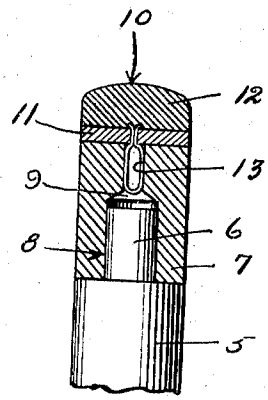


Fig. 4.

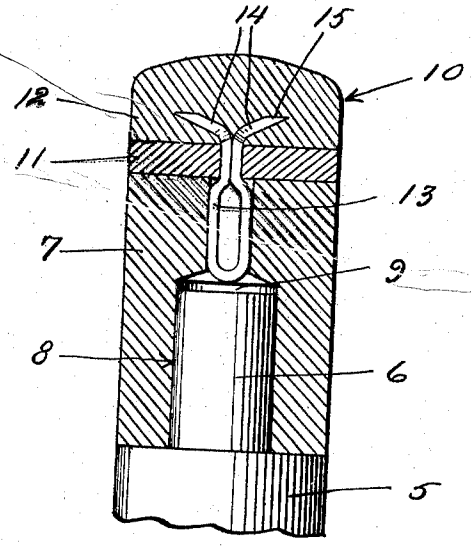


Fig. 3.

Inventor
Alvin O. Olafson

By Victor J. Evans
Attorney

NORRIS PETERS, INC., LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALVIN O. OLAFSON, OF SCOBEY, MONTANA, ASSIGNOR OF ONE-HALF TO GEORGE A. BROCKWAY, OF SCOBEY, MONTANA.

CUE TIP AND FERRULE.

1,307,922. Specification of Letters Patent. Patented June 24, 1919.

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To all whom it may concern:

Be it known that I, ALVIN O. OLAFSON, a native-born citizen of the United States, residing at Scobey, in the county of Sheridan and State of Montana, have invented new and useful Improvements in Cue Tips and Ferrules, of which the following is a specification.

This invention relates to game apparatus, particularly to billiard cues, and has for its object the provision of a cue tip which may be readily attached to or detached from a ferrule provided upon the end of the cue without the necessity of the tip being glued upon the ferrule as is now the present practice.

An important object is the provision of a tip of this character which is used in combination with a ferrule secured upon a dowel on the end of a cue, the tip being provided with a spring member frictionally engageable within a suitably shaped hole formed in the end of the ferrule member.

A further important object is the provision of a cue tip formed in two sections, the base section being of relatively hard leather, fiber or similar material and the other section being formed of leather, as is the usual practice, and in which the attaching spring member serves to hold the leather section secure in respect to the base section.

Another object is the provision of a cue tip of this character which will be extremely simple and inexpensive in manufacture, easily applied or removed from a cue ferrule, efficient in use, durable in service and a general improvement of the art embodying very few parts.

With the above and other objects and advantages in view, the invention consists in the details of construction to be hereinafter more fully described and claimed, and illustrated in the accompanying drawings in which:—

Figure 1 is a side elevation of my tip and ferrule applied to the end of a cue,

Fig. 2 is a longitudinal sectional view showing one form of the invention,

Fig. 3 is a sectional view taken at right angles to Fig. 2 and

Fig. 4 is a sectional view illustrating a modified form of the device.

Referring more particularly to the drawing, the numeral 5 designates a portion of the end of a cue which is provided with a reduced cylindrical extension or dowel 6.

In carrying out my invention, I provide a ferrule 7 formed as a cylindrical body of ivory, bone, bakelite, or other suitable material, and which is provided with a bore 8 adapted for the reception of the reduced extension or dowel 6 of the end of the cue. This ferrule is secured upon the reduced extension 6 by gluing as is the practice. At its outer end, the ferrule 7 is provided with a rectangular recess 9 which communicates with the bore 8.

My detachable tip is designated broadly by the numeral 10 and is formed in two sections 11 and 12, the section 11 being formed preferably as a disk of hard leather or fiber and the section 12 being formed of leather and convex as shown. The sections 11 and 12 are secured together by glue.

In both forms of my invention, the tip 10 is secured upon the ferrule 7 by means of a spring member 13 which is formed as an open loop of resilient metal carried by the tip 10 and engageable frictionally within the rectangular recess 9 in the ferrule 7.

In the preferred embodiment of the invention, the spring member 13 has its ends cut to provide prongs 14 which are beveled upon their inner faces as shown at 15. In this form of the device, after the sections 11 and 12 of the tip are glued together, the spring member 13 is disposed against the outer face of the section 11 and is driven into the tip. By virtue of the beveled inner faces 15 of the prongs 14 on the spring member, the prongs 14 will diverge as they are driven through the section 11 and into the section 12. The prongs will then operate as a clench to hold the sections 11 and 12 securely together and prevent any displacement.

In the modified form of the device, the ends of the spring member 13 terminates at the juncture of the sections 11 and 12 of the tip and do not extend into the leather section 12 as in the preferred form.

Regardless of which form of tip is used, the tip is connected with the ferrule 7 merely by inserting the spring member 13 within the recess or slot 9 in the ferrule whereupon the tip will be firmly held in active position.

Whenever for any cause it is necessary to remove the tip, it is merely necessary that the

operator grasp the same and exert a pull thereon, whereupon the spring member 13 will slip out of the recess 9 and allow the parts to be disassembled. It will be noted that the tip is incapable of rotation in respect to the end of the ferrule so that the tip may be effectively chalked when necessary without in any way loosening the connection between the tip and the ferrule. Furthermore, it will be noted that the provision of the section 11 of hard leather fiber or other similar or hard material will effectively brace the tip and prevent it from becoming distorted.

From the foregoing description and a study of the drawing it will be apparent that I have thus provided a cue tip which may be very quickly and easily connected with or disconnected from a ferrule disposed upon the end of a cue, and which will be extremely efficient and durable in service especially as it is particularly designed to stand the hard knocks to which a cue tip is subjected during playing.

While the accompanying drawing illustrates what I believe to be the preferred embodiment of my invention, it is to be understood that the invention is not limited thereto, but that various changes may be made in the construction, arrangement and proportions of the parts without departing from the scope of the invention as claimed.

Having thus described my invention I claim:—

1. A cue tip comprising a ferrule secured upon the end of a cue and provided at its outer end with a rectangular recess, a tip member formed of two sections disposed upon the outer end of said ferrule, a spring member extending from said tip member and frictionally engageable within said rectangular recess, said spring member having its ends extending through one section of said tip member and extending divergently partially through said other section.

2. In combination with a ferrule provided with a rectangular recess, a cue tip comprising a base section and an outer section, a spring member extending from said base section and detachably engageable within said recess, said spring member having its ends extending through said base section and formed to provide prongs, the inner face of said prongs being beveled whereby they will diverge outwardly upon passage through said base section and be embedded in divergent relation within said outer section.

In testimony whereof I affix my signature.

ALVIN O. OLAFSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."