H. J. GRENIER.

CUE TIP HOLDER.

APPLICATION FILED MAY 12, 1920.

1,376,331.

Patented Apr. 26, 1921.

Fig. 1.

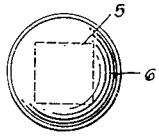


Fig. 2.

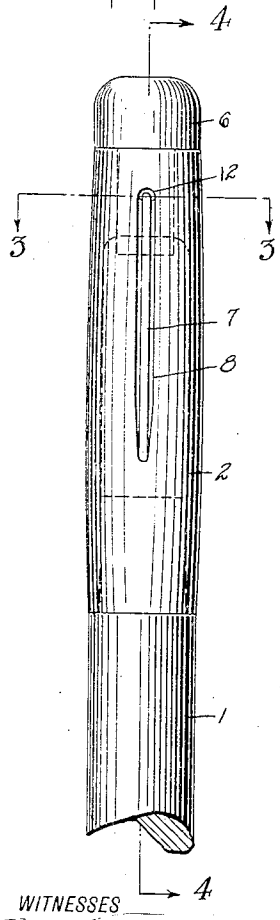


Fig. 3.

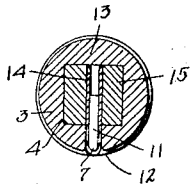
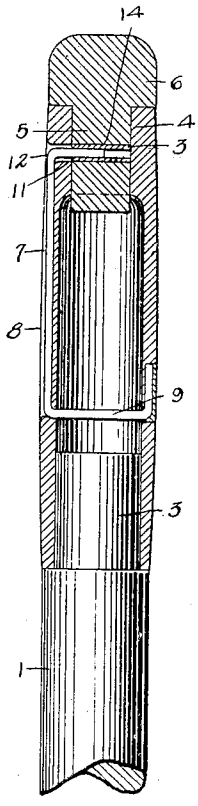


Fig. 4.



WITNESSES

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CUE-TIP HOLDER.

1,376,331. Specification of Letters Patent. Patented Apr. 26, 1921.

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To all whom it may concern:

Be it known that I, HENRY J. GRENIER, a citizen of the United States, and a resident of the city of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and Improved Cue-Tip Holder, of which the following is a full, clear, and exact description.

This invention relates to improvements in cue tip holders, and more particularly to an improved construction of cue and tip, and improved means for removably securing the tip to the cue, an object of the invention being to provide improvements of the character stated which permit the tip to be removed and replaced as desired.

A further object is to provide improvements of the character stated which are extremely simple and inexpensive of construction, and strong and durable in use.

With these and other objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings:

Figure 1 is an end view of the tip and cue.

Fig. 2 is a view in side elevation illustrating my improvements.

Fig. 3 is a view in transverse section on the line 3—3 of Fig. 2.

Fig. 4 is a view in longitudinal section on the line 4—4 of Fig. 2.

1 represents a cue having a metal sleeve 2 secured on a reduced end 3 of the cue, and projecting beyond the end of the cue.

This sleeve 2 is of cylindrical form throughout the greater portion of its length, but at its extreme outer end is made with an angular bore 4 to receive the angular shank 5 of the removable tip 6.

A spring catch 7 consisting of a single piece of wire, has its intermediate portion positioned normally in a longitudinal groove 8 in the outer face of sleeve 2. One end 9 of the wire forming the catch 7 is projected through one wall of the sleeve and secured to the other wall of the sleeve as shown at 10.

The other or free end 11 of the catch, is movable through an opening 12 in the wall of sleeve 2 and projects into a transverse opening 13 in shank 5 to hold the tip in place.

This opening 13 may be made by providing a metal brushing 14 in the shank, but this is of course immaterial, and the opening may be formed in any way desired.

When it is desired to remove the tip 6, it is simply necessary to insert a finger nail, or other sharp instrument under the longitudinal or intermediate portion of the catch 7 and force the end 11 thereof out of the opening 13.

When a new tip is inserted, the catch will spring into locked engagement with the shank thereof and secure the main portion of the tip against the sleeve 2.

Various slight changes might be made in the general form of the parts described without departing from my invention, and hence I do not limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. A combination with a cue and a sleeve secured to the end of a cue and having an angular longitudinal bore at its outer end, of a tip, an angular shank on the tip fitting the bore, said shank having an opening therein, said sleeve having an opening in its wall registering with the opening in the shank, a spring catch secured to the sleeve and located mainly along the exterior thereof, and having one end projecting into said registering openings securing the shank of the tip within the end of the sleeve.

2. A combination with a cue, and a sleeve secured on the end of the cue and having an angular longitudinal bore at its outer end, of a tip having an angular shank fitting the bore, said shank having an opening therein, said sleeve having an opening in its wall registering with the opening in the shank, a spring catch secured to the sleeve and projecting into said opening securing the tip to the end of the sleeve, said catch comprising a single piece of spring wire having one end projected through one wall of the sleeve and secured to the other wall, and said sleeve having a longitudinal groove accommodating the intermediate portion of the catch.

HENRY JOSEPH GRENIER.