June 17, 1941. J. L. DUKES 2,245,655

HOLDER FOR CUE TIPS AND THE LIKE

Filed Dec. 19, 1939

Fig. 1.

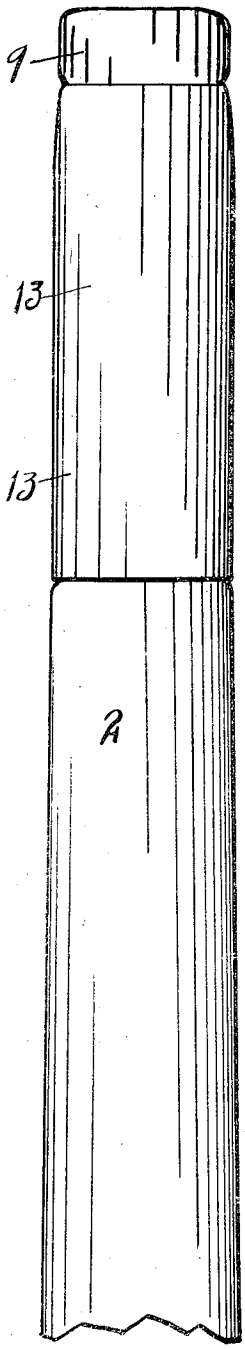


Fig. 2.

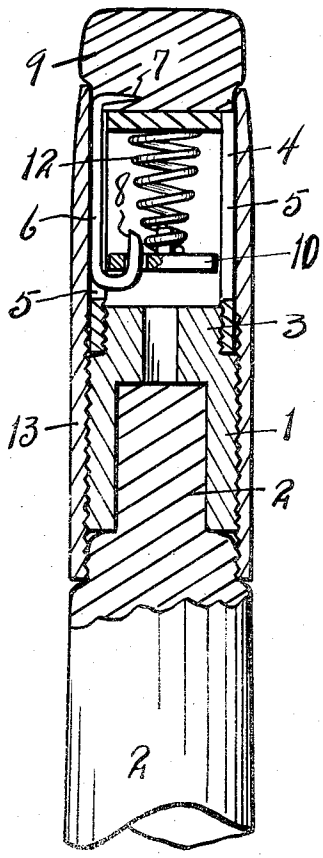


Fig. 4.

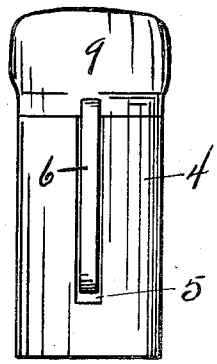


Fig. 5.

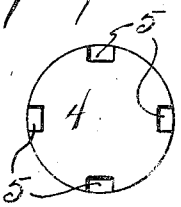


Fig. 6.

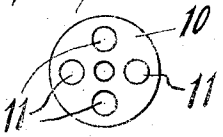


Fig. 7.

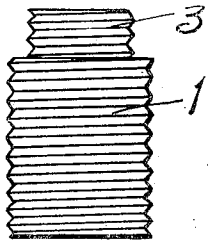
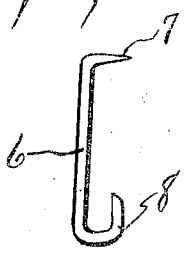


Fig. 3.



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HOLDER FOR CUE TIPS AND THE LIKE

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Application December 19, 1939, Serial No. 310,019

5 Claims. (Cl. 273—70)

This invention relates to tip holders for cues, such as those employed in games of pool and billiards, and its principal object resides in the provision of a simple arrangement of parts affording a means for securing tips to cues without the use of glue, and other conventional mediums of retaining the same, and affords a means of interchangeability whereby such tips may be renewed from time to time without rendering the cue useless for a duration usually required for the tip to become set when glued or cemented to the cue.

A further object of the invention is manifest in the provision of an inexpensive and light structure capable of being attached to any conventional cue without affecting its usefulness and provide economical means for changing the tips when the same are worn to a degree affecting their efficient performance and adapted to prevent the accidental disengagement of the tips from the cue.

Broadly, the invention seeks to comprehend the provision of a means whereby conventional tips may be retained upon conventional cues while maintaining the same in readiness for use at all times and providing for the instant change of tips when necessary with minimum effort and expense, yet without adding additional weight or bulk to the conventional cue.

While the foregoing objects are paramount, other and lesser objects will become manifest as the description proceeds taken in connection with the appended drawing wherein:

Fig. 1 is a side elevation of a cue stick with the holder and its tip.

Fig. 2 is a vertical section of the same, showing a portion of the cue stick.

Fig. 3 is a side elevation of one of the hooks adapted to engage and hold the cue tip.

Fig. 4 is a side elevation of the cylindrical member adapted to operatively hold the hooks for anchoring the tip.

Fig. 5 is a plan view of the cylindrical member.

Fig. 6 is a plan view of the disk which is resiliently carried in the cylinder and adapted to receive the hook ends of the tip engaging hooks.

Fig. 7 is a side elevation of a member adapted to fit over the end of the cue stick, thread into the shell, and engage and hold the cylindrical member.

The device consists of a hollow cylindrical shaped member 1 which is externally threaded and adapted to pass over the end of a cue stick 2. The body portion of the member 1, which is adapted to pass over and be secured to the stick 2, is of greater diameter than the portion 3 which projects beyond the end of the stick.

A cup shaped cylindrical member 4 is interiorly threaded and adapted to screw over the portion 3 of the member 1. This cup shaped member is of the same diameter as the member 1. A plurality of longitudinal slots 5 are provided in the side walls of the cup shaped member. 4. The slots 5 extend from the end, opposite the end engaging the member 1, to a slight distance from the extent to which the portion 3 of the member 1 may be threaded into the cup 4. The slots 5 are each of sufficient width to operatively receive an elongated hook shaped member 6, similar to that shown in Fig. 3. The hooks 6 are formed with a relatively long body having one end turned at right angles thereto and provided with a point 7. The other end is bent to form a hook 8.

A cue tip 9 is placed on the base of the cup 4 so that each of the points 7 of the hook members 6 will project into the outer periphery thereof and at a slight distance from the portion adapted to rest upon the cup shaped member 4. A disk 10, having a plurality of holes 11 in its face, is inserted in the cup member 4. The hooks 8 are adapted to fit into the holes or openings 11 of the disk 10. A coil spring 12 is interposed between the base of the cup member 4 and the disk 10. The tension of the coil spring 12 serves to resiliently hold the cue tip on the top of the base of the cup shaped member 4.

A cylindrical shell 13 is provided for containing the cylindrical member 1 and the cup shaped member 4. This shell 13 has an interior thread which is adapted to thread over the body of the member 1. It is preferably of sufficient length to contain both members 1 and 4 and pass over a portion of the cue stick 2.

To attach a cue tip 9 to a cue stick 2: The hook members 6 are each placed in their respective slots 5 of the cup member 4, similar to those shown in Figs. 2 and 4. The hook ends 8 of the members 6 are each passed through their respective holes 11 of the disk 10. The points 7 of the hook members 6 are then pulled against the tension of the spring 12 and to a point where the points may be forced into the cue tip 9. When this is done the operator will have an assembly as shown in Fig. 4.

The cue stick 2 is forced into the member 1, as shown in Fig. 2. It may be glued in the member 1 or otherwise secured therein so that it will not become loose. The assembly as illustrated in Fig. 4, consisting of the cup shaped member

4 and tip 9, is then telescoped into the shell 13 opposite its interior threads. The stick 2 with its threaded member 1 is then threaded into the shell until the threads of the portion 3 screw into the open end of the cup member 4. As the stick 2 is threaded into the shell 13 the cue tip 9 will be forced against the taper portion of the shell 13.

It is obvious that various changes may be made in the size and shape of the various parts of this structure without departing from the spirit of the invention.

What I claim is:

1. A holder for cue tips and the like consisting of a cylindrical member having a plurality of hooks adapted to project into a cue tip, said hooks projecting into the sides of said member, resilient means carried in said cylindrical member and cooperating with said hooks for resiliently forcing said tip against the end of said member, a cue stick screwed into an elongated cylindrical shell, and the end of said stick having means to engage said cylindrical member and pull the same into said shell.

2. A holder for cue sticks consisting of a cue stick threaded into an elongated shell, a cup shaped member adapted to support a cue tip on the base thereof, hooks projecting from without the walls of said cup member and adapted to engage said tip, means within said cup and cooperating with said hooks for resiliently forcing said tip against said cup member, and said cue stick having means to engage said cup member and force the same into said elongated cylindrical shell.

3. A tip holder for cues comprising an exteriorly threaded member having a reduced threaded portion on one end and a bore at its opposite end, the said bore providing means for attachment to a cue, a cup member forming a base at its closed end for a cue tip, a plurality of hooks secured at one of their ends to a perforated disk arranged within the said cup member and having their opposite ends embedded in the base of the said tip, a spring arranged within the said cup member bearing against the said disk and exerting tension on the said hooks to retain the said tip and a shell encasing the said hooks and a portion of the said cue.

4. A tip holder for cue sticks comprising a hollow threaded member adapted to engage the end of a cue stick, a cup member attached to the said threaded member and forming a base at its closed end for a tip arranged thereon, holding means for the said tip comprising a plurality of hooks each having one of their ends engaging the base of the said tip, a perforated disk securing the opposite ends of the said hooks, a normally partially contracted spring arranged within the said cup bearing against the said disk and exerting tension on the said hooks to retain the said tip and a shell encasing the said hooks and a portion of the said cue.

5. The combination with a cue and a tip therefor, a tip holder comprising a threaded member having a bore adapted to receive the end of a cue, a cup member threadedly attached to the said member providing a base for the said tip at its closed end, means comprising a plurality of hooks retaining the said tip against the said base, the said hooks engaging the base of the said tip at one of their ends and a perforated disk arranged in the said cup at their opposite ends, a spring within the said cup bearing against the said disk exerting tension on the said hooks and urging the said tip against the said base and a shell threadedly encasing the said hook assembly and a portion of the said cue.

JESSE L. DUKES.