

No. 621,787.

Patented Mar. 28, 1899.

H. BRAUN.  
CUE TIP.

(Application filed Apr. 2, 1898.)

(No Model.)

Fig. 2

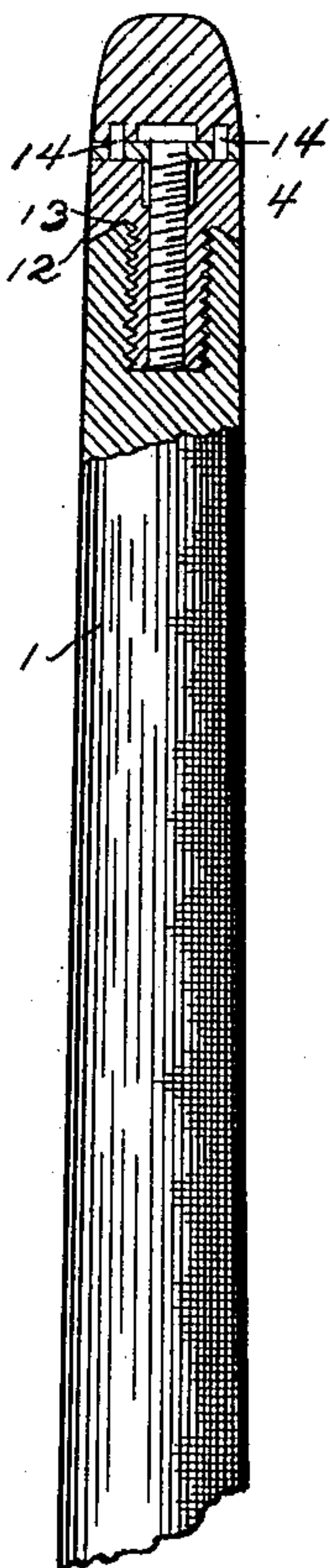


Fig. 1

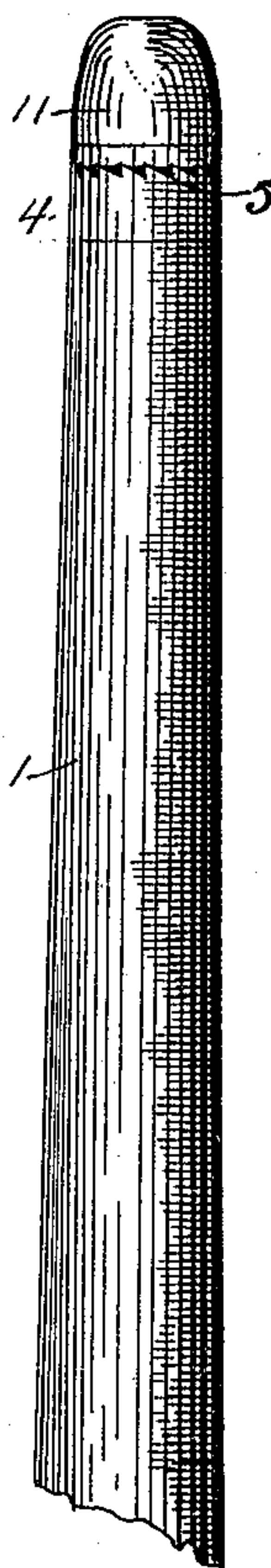


Fig. 3

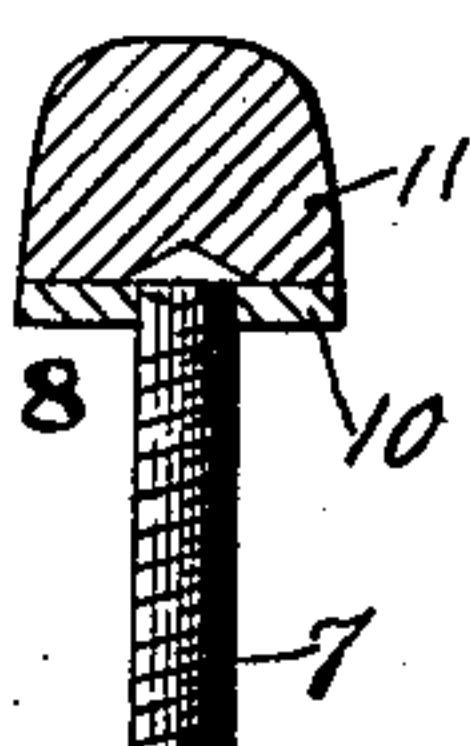


Fig. 4

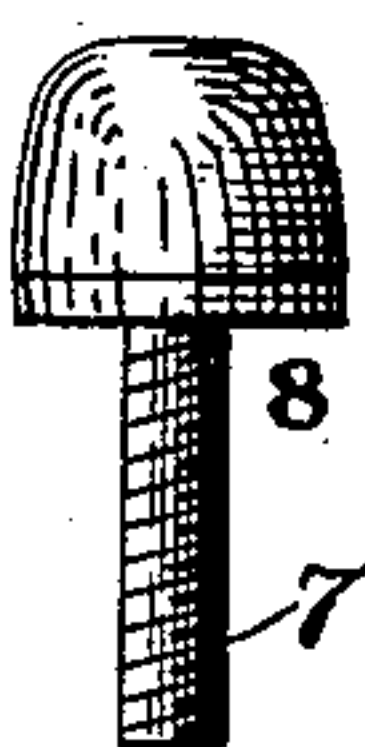


Fig. 5

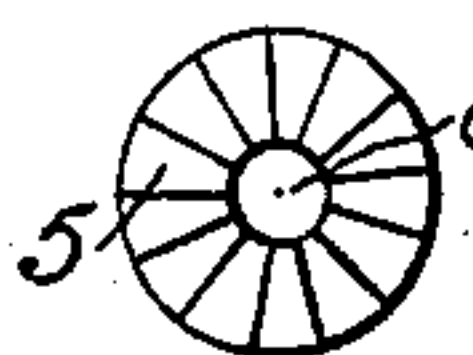


Fig. 6

Fig. 7



Fig. 7

Fig. 8

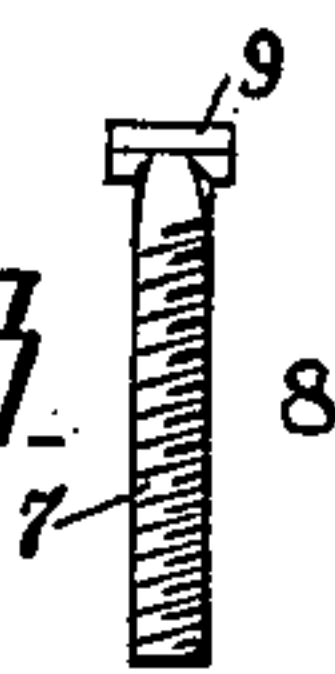


Fig. 9



Witnesses

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# UNITED STATES PATENT OFFICE.

HENRY BRAUN, OF ELIZABETH, NEW JERSEY.

## CUE-TIP.

SPECIFICATION forming part of Letters Patent No. 621,787, dated March 28, 1899.

Application filed April 2, 1898. Serial No. 676,153. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY BRAUN, a citizen of the United States, residing at Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Cue-Tips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in cue-tips; and it consists, as will be hereinafter fully described and claimed, of certain novel features of combination and arrangement of parts, as fully illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my invention complete. Fig. 2 is a similar view showing a central longitudinal section of the end thereof. Fig. 3 is a central section of one of the members forming my complete cue-tip. Fig. 4 is a side elevation thereof. Figs. 5 and 6 are detailed views of the end and side, respectively, of the socket. Fig. 7 is a detail side view of the end of the cue-tip ready to receive the socket prepared therefor, while Figs. 8 and 9 are detailed views of the anchoring-stem employed to hold the tip in its operative position.

My invention may be said to consist in a socket adapted to fit the end of a cue and a threaded stem arranged to be received by said socket and upon the end of which the yielding end or tip proper is secured.

Referring in detail to the several parts of my invention, 1 illustrates the end of a cue of the usual or any preferred construction, which is preferably beveled at its extreme end, as indicated by the numeral 2, a central threaded socket or aperture being provided in the end thereof designed to receive the threaded stem 3 of the metallic socket 4, the upper face of said socket being provided with a series of ratchet-teeth 5, the purpose of which will be hereinafter fully specified.

The threaded stem 3, it will be observed by reference to Fig. 2, is tubular and internally threaded, thus providing the bore 6, adapted to receive the threaded stem 7 of the anchor 8, said anchor being provided with the cross-head 9, which is preferably formed as shown

in Figs. 8 and 9, the same being substantially diamond-shaped in cross-section in order that both the upper and lower edges thereof may readily be embedded in the upper surface of the usual leather disk 10 and upon which the tip proper, 11, is built in the usual or any preferred manner by employing buckskin or other preferred material disposed in a series of layers one upon the other or otherwise, as deemed most productive of the best results.

In Fig. 3 I have shown the anchor 8 partly in section in a completed form ready to have the anchoring-stem 7 thereof screwed home within the threaded socket 3, and it will be observed that since the base or disk 10, formed of leather or other preferred material, is brought into contact with the ratchet-face 5 of the socket 4 the lower surface thereof will ride over the series of inclined faces thus provided, the extreme points of the ratchets thereby taking into the yielding material until further rotation is prevented by the threaded stem 7, a reverse movement of this part being very difficult, since the series of ratchets 5 will take deeply into the material forming said disk or base, as will be clearly apparent.

I claim that a specially desirable result follows the coöperation of the ratchets 5 with the base 10, inasmuch as the tip proper will not only be locked securely in an operative position, but means are provided for more fully absorbing the blow received by the end of the cue, as the series of contacting points of the ratchets 5 will act as a cushion, which would not be the case if said ratchets were entirely removed and the base 10 rested squarely against the surface of the socket.

By reference to Fig. 2 it will be seen that the socket 4 is provided near its point of union with the threaded stem 3 with a depending annular flange 12, thus providing an annular seat adapted to receive the beveled face 13 of the end of the cue, the object of which is to more securely unite the socket in position upon the end of the cue and prevent the tendency of the outer surface of the cue to become splintered at this point of union.

In assembling the several parts of my invention in their respective operative positions I provide the disk or base 10, formed of any suitable material, and form a central aperture therein, through which I insert the threaded



stem 7, forcing the same downward until the lower half of the cross-head lies buried therein, when I place upon the same the first of the series of layers designed to form the end proper of the tip, which is pressed firmly downward in position, thereby receiving the upper half of said cross-head, the upper and lower sharpened edges provided on said head being designed to insure that the same will become securely embedded in the adjacent parts, thereby preventing said parts from rotating thereon after being once firmly secured in the usual manner. The end of the tip is then completed, when the threaded stem 7 is ready to be received by the socket 4 after the latter has been screwed home in its threaded seat provided in the end of the cue. It will be clear that when the threaded stem has thus been turned home within the socket 4 the end of the tip will be guarded against casual displacement, since it will be practically impossible or extremely difficult to turn the same against the biting edges of the ratchet-teeth 5.

It will be seen by reference to Fig. 1 that my improved cue-tip when completed presents a neat and attractive appearance, and that when it is desired to remove the entire tip from the end of the cue the socket 4 may be unscrewed and withdrawn, when access to any of the other parts may be obtained by unscrewing the stem 7, or said stem may be removed without disturbing the socket 4, if preferred, though, as above stated, this operation will be very difficult owing to the ratchet-teeth 5.

In order that the disk 10 and the tip proper, 11, may be more securely united than would be the case where dependence alone is had upon adhesive material, I prefer to locate the lugs or anchoring-points 14, which may be formed of wood, metal, or other preferred material and seated in suitable apertures previously prepared, in the yielding parts 10 and 11, it being understood that the number of said lugs or points may be multiplied, as may be deemed most advantageous.

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

1. A cue-tip consisting of a socket provided with external and internal threads and having a ratchet-face, a threaded stem fit-

ting said socket and having a cross-head on its outer end, and a tip of yielding material mounted on said head adapted to contact said ratchet by its inner face, substantially as specified and for the purpose set forth.

2. A cue-tip having a removable tubular socket consisting of a threaded stem and an enlarged head having an annular flange upon its lower edge to provide a seat for the end of the cue, and also having a ratchet-face on its upper side and a threaded stem taking into said socket; a cross-head formed on said stem adapted to be embedded in the yielding substance forming the tip, and anchoring-points or lugs for holding the parts of said tip in an adjusted position, substantially as specified and for the purpose set forth.

3. A cue-tip consisting of a socket having a head 4 and stem 3, the latter being externally and internally threaded, said head being provided with a ratchet-face; a threaded stem 7 designed to be received by the internal threads of said socket, said stem 7 having a cross-head 9 which is rectangular in cross-section and designed to be embedded in the yielding substance forming the tip of the cue, as and for the purpose set forth.

4. The herein-described cue-tip consisting of a socket having the head 4 and stem 3, the latter being tubular and internally and externally threaded, while said head is provided with a depending flange adapted to provide a seat for the end of the cue, and further provided with a series of ratchet-teeth upon its outer face; a threaded stem designed to be received by said socket and provided with a cross-head disposed at right angles thereto; a retaining disk or washer 10 having a central aperture to receive said stem, and a tip formed of yielding substance adapted to rest against the outer face of the disk 10 whereby said head will be partly embedded in both said washer and tip, and anchoring-points or lugs 14 adapted to hold said washer and tip into operative relationship with each other as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY BRAUN.

Witnesses:

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ADAM MILLER.