

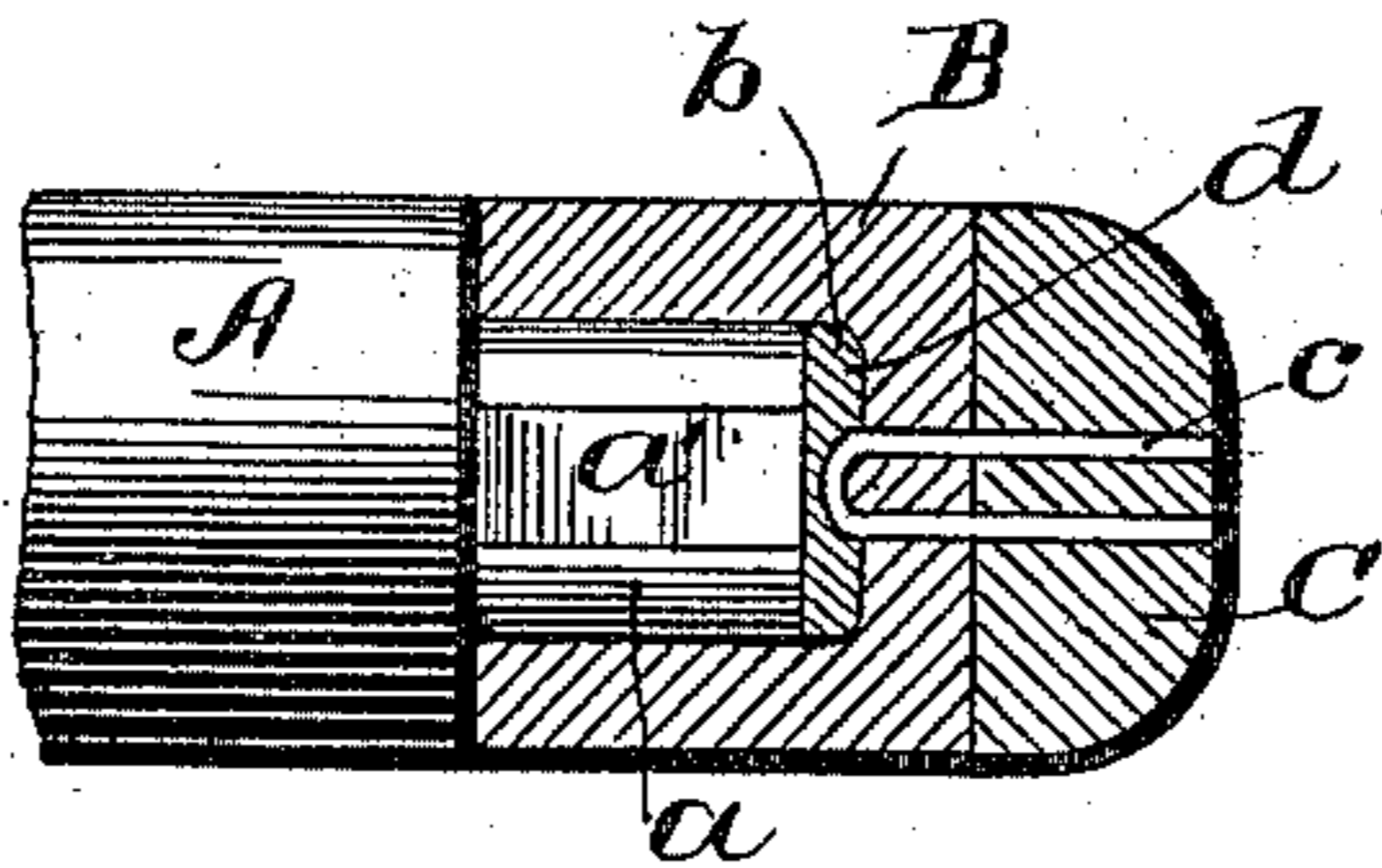
(No Model.)

N. BOSMANN, Jr.  
CUE TIP.

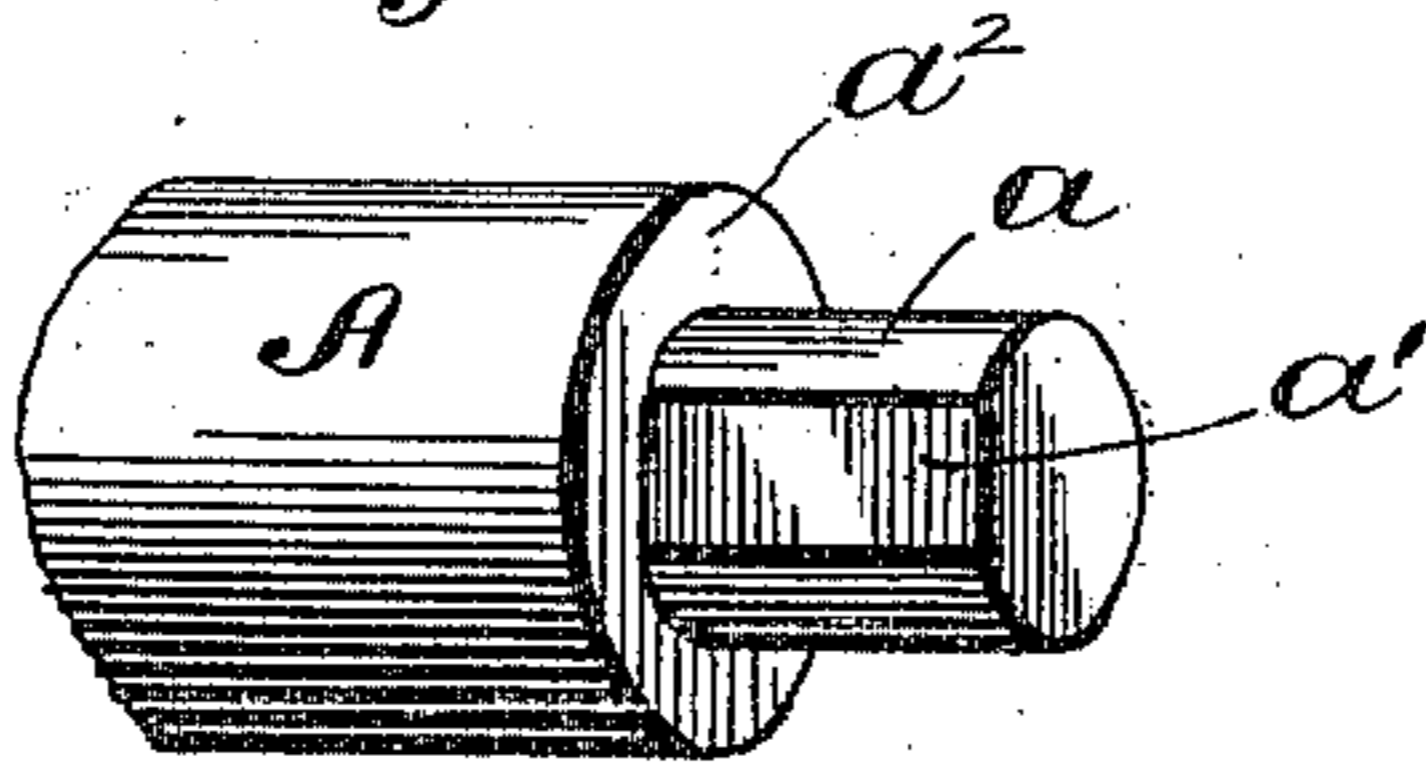
No. 575,295.

Patented Jan. 12, 1897.

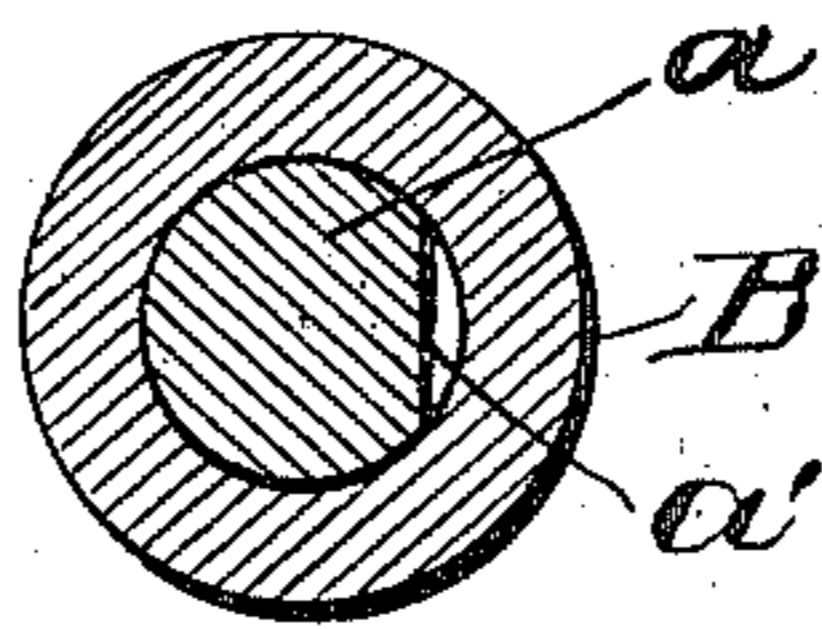
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

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Inventor

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# UNITED STATES PATENT OFFICE.

NICOLAS BOSMANN, JR., OF CHICAGO, ILLINOIS.

## CUE-TIP.

SPECIFICATION forming part of Letters Patent No. 575,295, dated January 12, 1897.

Application filed March 15, 1895. Serial No. 541,853. (No model.)

*To all whom it may concern:*

Be it known that I, NICOLAS BOSMANN, Jr., a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Cue-Tips, of which the following is a specification.

This invention relates to improvements in tips to be used on the end of billiard-cues; and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The object of this invention is to form a billiard-cue tip cup-shaped, so as to entirely surround a tenon on the end of a cue and bear against a shoulder at the end of the cue, whereby there will be a solid body in one piece of a very hard and yet elastic material interposed between the cushion at the outer end of the tip and the shoulder of the cue and of such material possessing these qualities as will readily absorb the glue or cement employed in fastening the tip and in securing the leather or other cushion thereto. Hence the blow imparted to a ball by the cue will be sharp, hard, and accurate and the ball will rebound from the tip.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a view, partly in section, of a portion of a cue, showing my tip secured thereto. Fig. 2 is a perspective view of the end of the cue as it appears when ready to receive the tip. Fig. 3 is a cross-sectional view taken on line 3 3 of Fig. 1.

Similar letters refer to like parts throughout the different views of the drawings.

A represents a billiard-cue which may be of the ordinary or any preferred kind and is provided at its end to which the tip is secured with a tenon or reduced portion  $a$ , which is cylindrical in form, yet is provided with a flattened portion  $a'$  on its surface to permit of the escape of air from the cup-like or tubular portion of the tip, which encompasses the tenon or reduced part  $a$ , as will be presently explained. By reducing the end of the

cue to form the tenon  $a$  it is obvious that the shoulder  $a^2$  will be formed, against which bears the cup B, which is preferably made of rawhide and formed into the shape illustrated in Fig. 1 of the drawings by being pressed into a mold or otherwise treated when in a pliable state. The opening  $b$  within the cup or tubular piece B is made of sufficient size to receive the tenon  $a$  of the cue and to afford a snug fit therefor. The closed end of the cup-piece B is provided with an opening or openings for the reception of a cord or thread  $c$ , which is passed therethrough and looped on the interior of the cup, the outer ends of the thread or cord  $c$  being passed through the cushion or exterior tip C, which is preferably made of sole-leather or walrus-hide. The adjacent surfaces of the pieces B and C are provided with a coating of glue or cement to aid the cord  $c$  in holding them together. The cavity of the cup-piece B is also provided with a quantity of glue  $d$ , which will firmly secure the rawhide piece to the tenon and shoulders  $a^2$  of the cue. The tenon  $a$  is provided with a cut-away portion or groove  $a'$  on its surface in order that the air within the cavity of the cup-piece may escape when the tenon is being inserted therein. Otherwise the air would be compressed and form a cushion between the closed portion of the cup-piece and the free end of the tenon, as is apparent.

By the use of my cup-piece, which may be made in any of the forms illustrated, it is evident that the tenon will be firmly bound thereby and that the concussion will be distributed on the end of the tenon and shoulder  $a^2$ , thus preventing the cue being split. It is obvious that as the exterior piece or cushion C is gradually worn down by the use of chalk or contact with the billiard-ball the free end or ends of the cord passing through the same will become slightly frayed or somewhat enlarged, thus preventing any possibility of the piece C being separated from the cup-piece. The thread or cord  $c$  may extend entirely through the piece C or a part of the way only, or the piece C may be omitted or secured on the cup-piece in any desired manner.

Heretofore in some instances expensive and complicated billiard-cue tips have been formed by inserting an internally-threaded

bushing into the tenon on the end of the cue and surrounding the tenon with a multiplicity of thin rings of rawhide glued together and providing the leather cushion with a screw to enter the bushing. However, my present invention differs materially from such a construction, and I make no claim for such old construction, as the screw soon loosens and the parts rattle and the rawhide rings split and separate and the device is expensive to make and difficult to apply, and there is not present in the construction the hard elastic body in one piece between the leather cushion and the shoulder of the cue, which attains the new results and material advantages of my invention; also, in some instances cue-tips have been provided formed of pyroxylin or celluloid with leather cushions sweated thereto; but such devices are absolutely impracticable for the purposes intended, as they soon crack, break, and peel off, and it is impossible to really properly cement them to the cue, and they do not possess the elastic qualities necessary, as explained in connection with my tip, and which is attained by pressing

a flat softened disk of rawhide into the shape of a cup and allowing the same to harden.

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

1. As an improved article of manufacture, a cue-tip composed of a cup-shaped piece made of one piece of rawhide, to receive the end of the cue, a cushion or exterior piece, and a thread or cord passed through and uniting the same and being looped in the cavity of the cup-piece, substantially as described.

2. A billiard-cue having the reduced end tenon, the cup-shaped piece thereon bearing against the shoulder of the cue and formed in a single hard integral piece of an elastic nature, readily receiving glue or cement, and the end cushion, so that a hard integral elastic body is directly interposed between the end of the cue and the cushion, said body being glued to the cue, and to the cushion.

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Witnesses:

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