

(No Model.)

F. P. HULL.  
BILLIARD CUE AND TIP.

No. 390,860.

Patented Oct. 9, 1888.

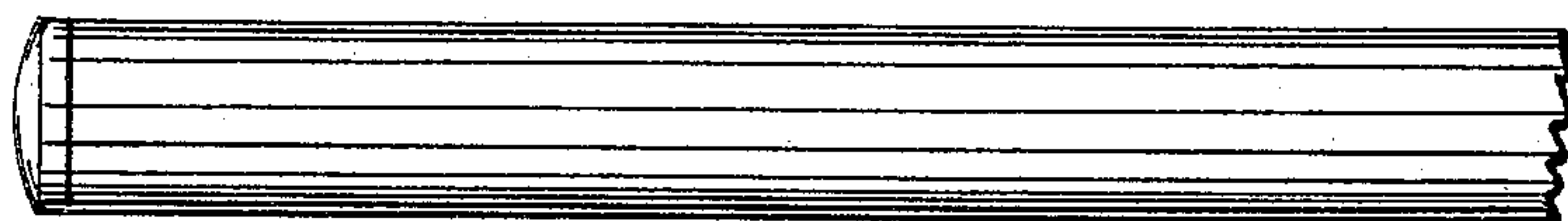


Fig. 1.

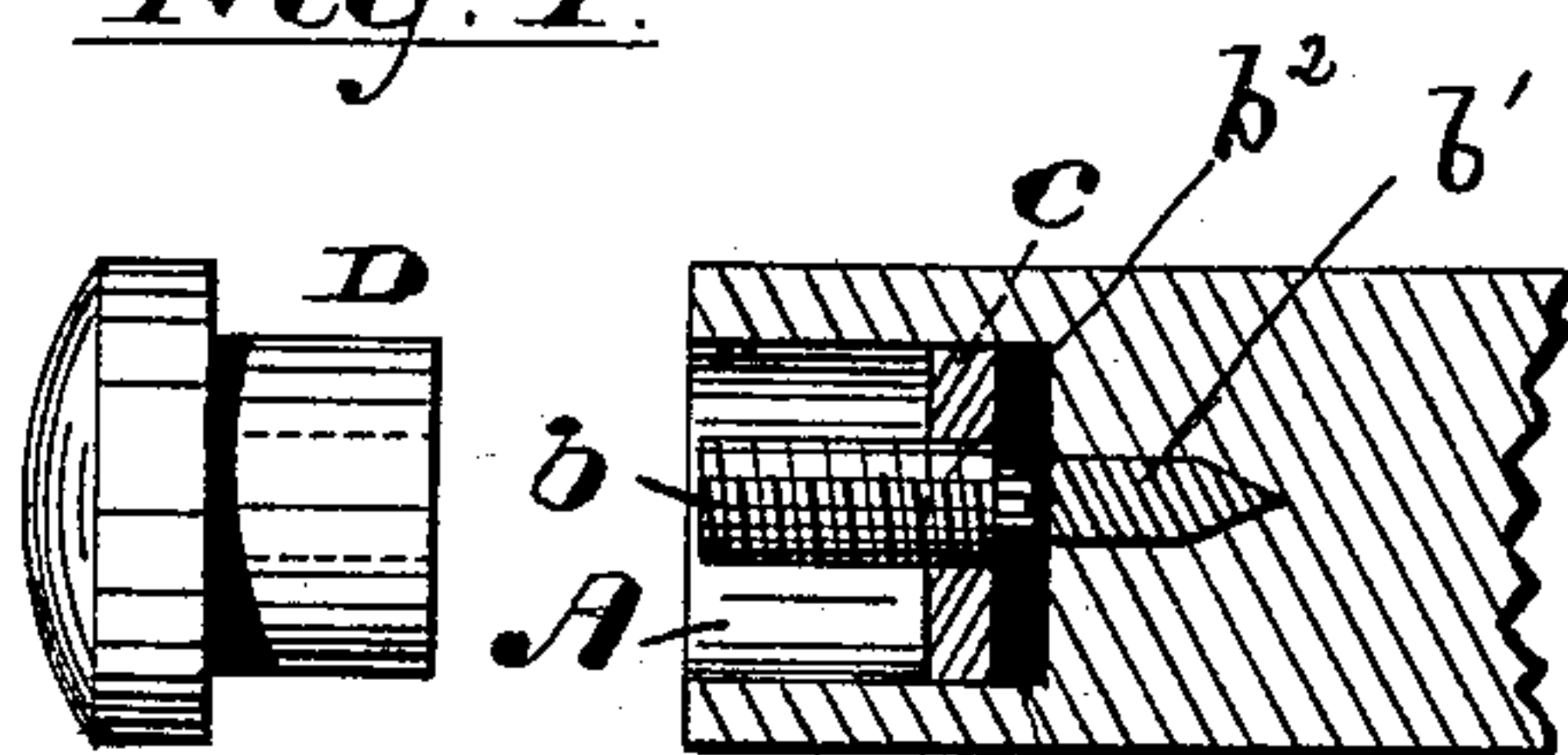


Fig. 2.

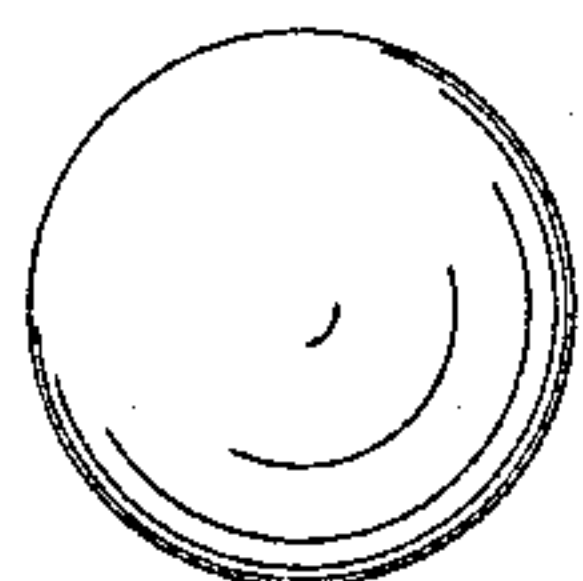


Fig. 3.

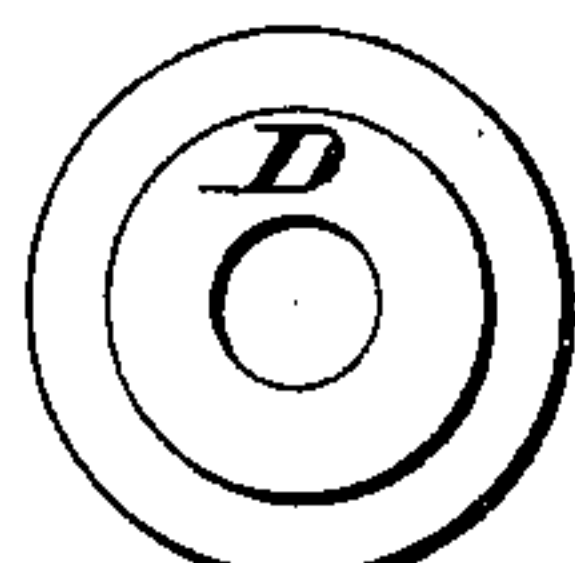


Fig. 4.

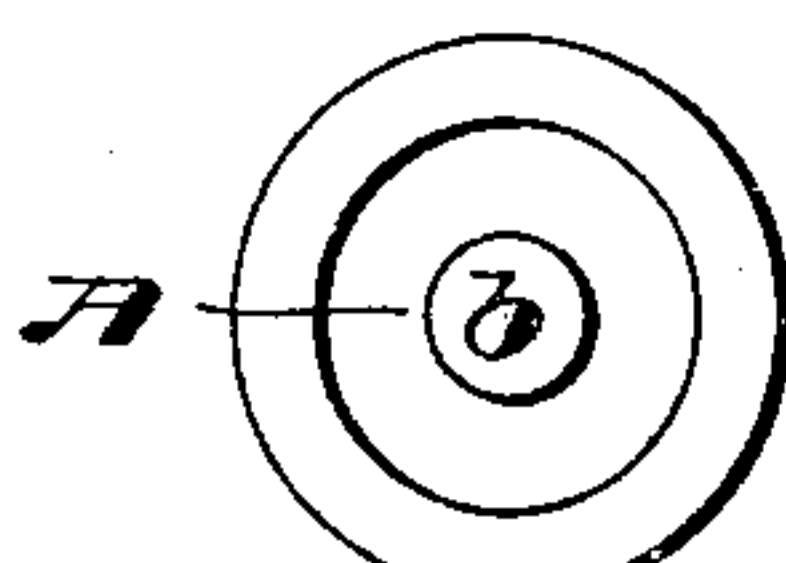


Fig. 5.

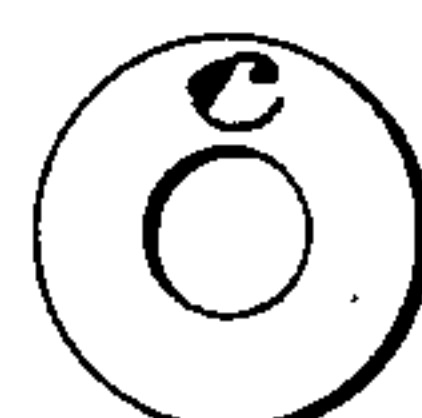


Fig. 6.

WITNESSES:

INVENTOR.

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# UNITED STATES PATENT OFFICE.

FRANKLIN P. HULL, OF BELLEVILLE, NEW JERSEY.

## BILLIARD CUE AND TIP.

SPECIFICATION forming part of Letters Patent No. 390,860, dated October 9, 1888.

Application filed November 7, 1887. Serial No. 254,487. (No model.)

*To all whom it may concern:*

Be it known that I, FRANKLIN P. HULL, a citizen of the United States, residing at Belleville, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Billiard Cues and 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

In said drawings, Figure 1 is a side elevation of a portion of a cue having the tip applied. Fig. 2 is a central longitudinal section of the end of the cue, showing a side elevation of the tip removed. Fig. 3 is an outer end view of the tip. Fig. 4 is an inner end view of the tip. Fig. 5 is an outer end view of the cue. Fig. 6 is a front elevation of the collar.

Similar letters of reference indicate corresponding parts in all the figures where they occur.

A is a deep cylindrical socket formed in the end of the cue.

b is a screw having a pointed end,  $b'$ , which is inserted in the wood of the tip back of the bottom of the socket. The screw  $b$  is provided with an offset or shoulder,  $b^2$ , where the screw portion meets the reduced portion of the screw. The screw  $b$  extends nearly to the mouth of the socket. A rubber or other elastic collar,  $c'$ , (shown in black in Fig. 2,) is inserted in

the bottom of the socket, and the pointed end  $b'$  of screw  $b$  passes through it, and the shoulder  $b^2$  rests upon it when the screw is driven into place.

C is a collar or shoulder of any suitable material, which surrounds the base of the enlarged portion of screw  $b$ .

D is the tip, which has a cylindrical extension which is bored and threaded to engage the screw  $b$ , and is of proper length to fill the socket A and rest upon the collar C, so as to bring the head of the tip against the end of the cue.

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

A billiard-cue having the elongated cylindrical socket A, in combination with an elastic collar,  $C'$ , inserted in the bottom of said socket, a screw having a reduced pointed end and a shoulder, said pointed end passing through collar C and entering the wood of the cue in the bottom of the socket, and said shoulder resting upon said collar  $C'$ , a collar, C, placed above collar  $C'$  and surrounding the enlarged portion of the screw, and a tip, D, having a head and a hollow cylindrical portion fitting over the screw  $b$  and into socket A, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of October, 1887.

FRANKLIN P. HULL.

Witnesses:

OLIVER DRAKE,  
C. H. BALDWIN.