

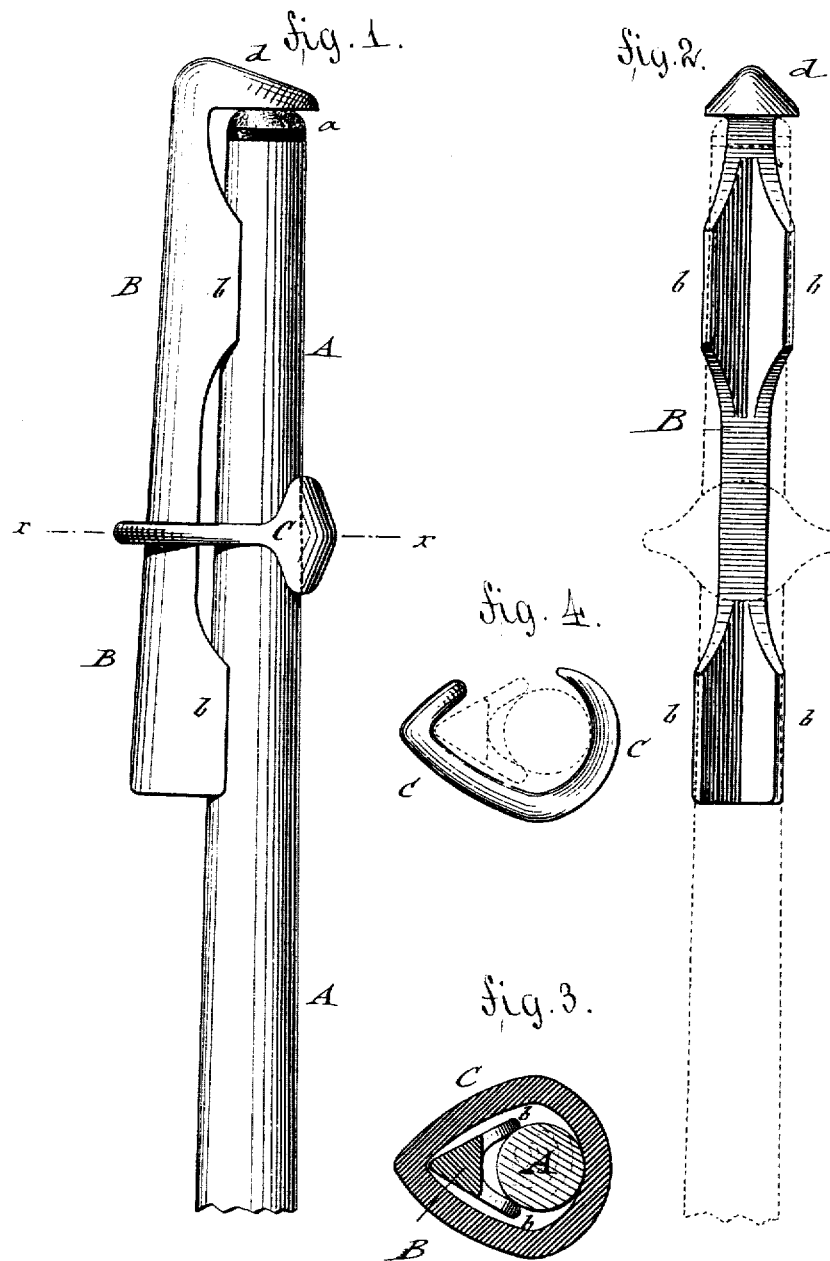
(No Model.)

C. SCHER.

BILLIARD CUE TIP FASTENER.

No. 301,284.

Patented July 1, 1884.



WITNESSES:

*For. H. Rosenbaum.*  
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# UNITED STATES PATENT OFFICE.

CHARLES SCHER, OF BROOKLYN, N. Y.

## BILLIARD-CUE-TIP FASTENER.

SPECIFICATION forming part of Letters Patent No. 301,284, dated July 1, 1884.

Application filed March 13, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES SCHER, of Brooklyn, county of Kings, and State of New York, have invented certain new and useful  
5 Improvements in Billiard-Cue-Tip Fasteners, of which the following is a specification.

This invention has reference to an improved device for fastening the leather tips to billiard-cues, the device being made simple and cheap  
10 in construction and adapted for billiard-cues of any thickness; and the invention consists of a wedge-shaped main piece of V-shaped cross-section, said main piece having an abutment at the end, that presses the leather tip on the  
15 cue, and of a fastening-ring in part of segmental and in part of angular shape, said ring locking the wedge-shaped main piece and the cue rigidly together, so that the tip is held in position at the end of the cue.

20 In the accompanying drawings, Figure 1 represents a side elevation of my improved fastener for billiard-cue tips, shown as applied to a billiard-cue. Fig. 2 is an end elevation of the fastening-piece detached from the cue.  
25 Fig. 3 is a horizontal section on line *x x*, Fig. 1; and Fig. 4 is a plan of a modified form of the fastening-ring.

Similar letters of reference indicate corresponding parts.

30 A in the drawings represents a billiard-cue, and *a* the leather tip that is to be glued to the end of the same. The fastener B consists of a wedge-shaped main piece of suitable cast metal and of a fastening-ring, C. The main piece  
35 B is made of V-shaped cross-section, so as to form flaring side cheeks, *b b*, that bear against the end of the cue A. An abutment, *d*, that is cast integral with the main piece B, extends at right angles to the inner end of the same,  
40 and is placed over the tip *a* after the same is glued on the end of the cue. The retaining-ring C is made of suitable cast metal of segmental shape at that side that passes over the cue and of angular or V shape at the other side  
45 that passes over the wedge-shaped main piece B. By pressing first the abutment *d* over the

tip *a* and then pushing the ring C forward over the main piece B and cue A, the fastener and tip are rigidly held in position on the cue end until the glue has dried, when the fastener is  
50 removed. The ring C may be an entirely closed ring, as in Fig. 3, or partly open at one side, as shown in Fig. 4. That portion which bears against the cue is made wider than the angular portion of the ring, the wider portion  
55 being made slightly flaring at the inner surface, so as to correspond to the taper of the cue.

The fastener, being entirely of cast metal, can be furnished very cheaply, as there are no  
60 screw-sockets, and is adapted for use with any thickness of cue.

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

1. A billiard-cue-tip fastener consisting of  
65 a wedge-shaped main piece of V-shaped cross-section, said main piece having a laterally-extending abutment at the thinner end, and of a fastening-ring that secures the main piece to the cue, substantially as set forth. 70

2. A billiard-cue-tip fastener consisting of a wedge-shaped main piece having an abutment at the thinner end and flaring side cheeks, and of a fastening-ring in part of segmental shape and in part of angular shape, so as to fit  
75 over the cue and main piece and lock them together, substantially as set forth.

3. A billiard-cue-tip fastener consisting of a wedge-shaped main piece having flaring side cheeks and an abutment at the thinner end, 80 and of a fastening-ring made partly in the shape of an enlarged segment having an inner slightly-flaring surface, and partly of angular or V shape, substantially as set forth.

In testimony that I claim the foregoing as my  
85 invention I have signed my name in presence of two subscribing witnesses.

CHARLES SCHER.

Witnesses:

CARL KARP,

OTTO RISEH.