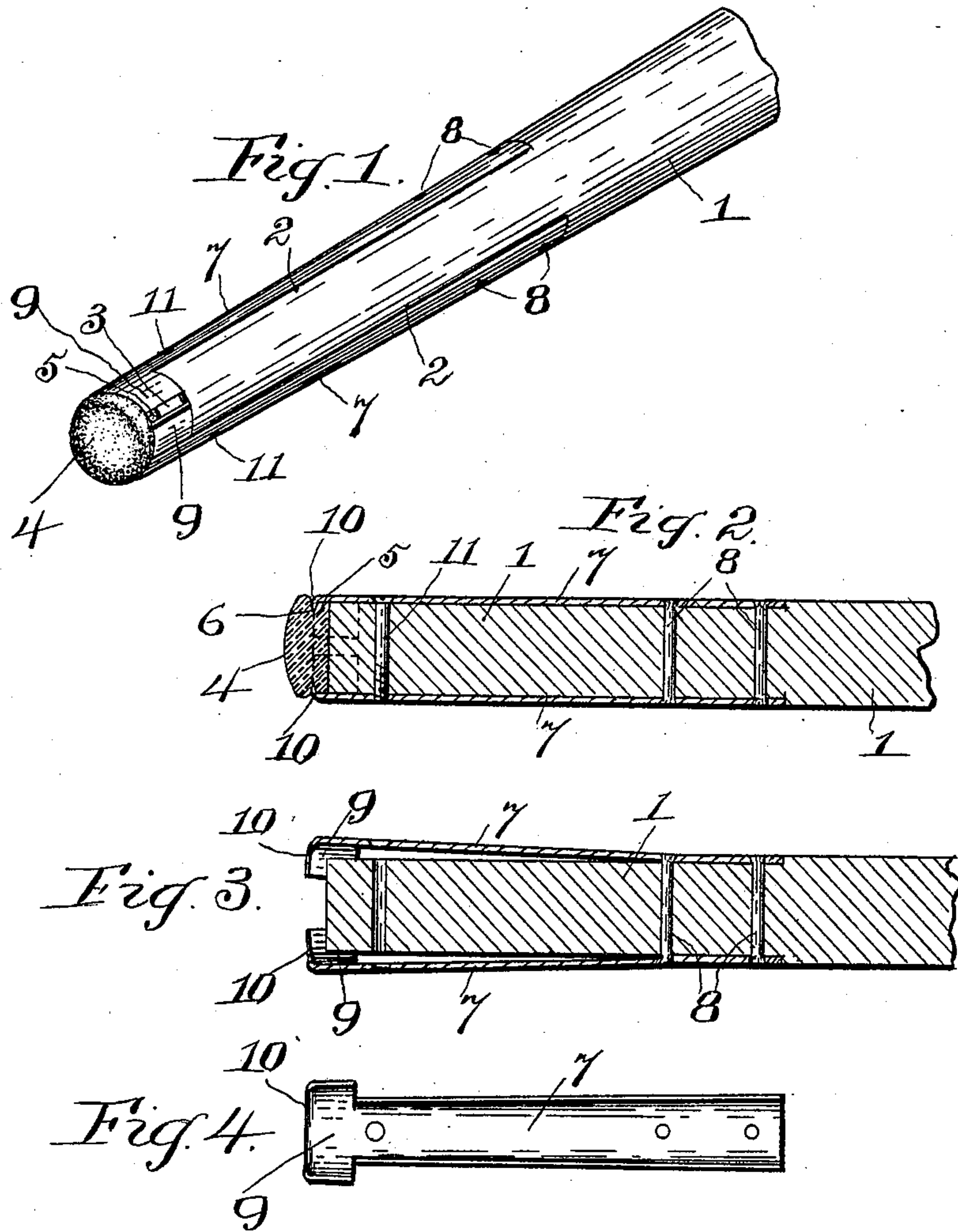


(No Model.)

P. B. TARVER.
TIP FASTENER FOR BILLIARD CUES.

No. 601,913.

Patented Apr. 5, 1898.



Witnesses:
John Stump
C. J. Bell

Inventor:
Peyton B. Tarver
By A. H. Mills
Att'y.

UNITED STATES PATENT OFFICE.

PEYTON B. TARVER, OF ARDMORE, INDIAN TERRITORY.

TIP-FASTENER FOR BILLIARD-CUES.

SPECIFICATION forming part of Letters Patent No. 601,913, dated April 5, 1898.

Application filed May 21, 1897. Serial No. 637,527. (No model.)

To all whom it may concern:

Be it known that I, PEYTON B. TARVER, a citizen of the United States, residing at Ardmore, Chickasaw Nation, Indian Territory, have invented certain new and useful Improvements in Tip-Fasteners for Billiard-Cues, of which the following is a specification.

This invention relates to a billiard-cue, and particularly to a cue-tip and means for securing the tip to the cue.

The object of the invention is to provide new and improved means for detachably securing a tip to a cue, so that the tip may be removed and replaced when worn out without detaching or removing said means from the cue.

Other objects and advantages accruing from the special construction and arrangement of parts will be revealed in the specification and claim to follow.

In the accompanying drawings, forming part of this application, Figure 1 is an elevation of a billiard-cue, partly broken away, showing my invention applied. Fig. 2 is a longitudinal section of Fig. 1. Fig. 3 is a similar section showing the set-screws and the spring-arms raised in position to grasp a tip. Fig. 4 is a plan view of one of the spring-arms.

The same numeral references denote the same parts throughout the several figures of the drawings.

In carrying my invention into effect an ordinary billiard-cue 1 is employed having longitudinal cavities or cut-outs 2, which terminate in a reduced end 3. A tip 4, of the usual material, having a neck 5 of the same diameter as the reduced portion 3 of the cue, is provided with a peripheral groove 6.

The means for detachably securing the tip to the cue consists of spring-arms 7, having one end secured in cavities 2 by means of rivets or pins 8, and the other end being provided with lateral wings or flanges 9, which partially encircle the reduced portion 3. The outer edges of these flanges or wings 9 are turned inward to form lips 10, which engage the groove 6 of the tip and hold the latter to

the end of the billiard-cue. A set-screw 11 is passed through the arms 7 and through the cue to hold the free ends of the arms firmly against displacement.

In attaching a tip to a cue the set-screw is removed and the neck of the tip is forced between the arm-lips, which is readily accomplished by the spring tendency of the arms, and the tip falls into the tip-groove, which allows the arm-wings to hug the reduced portion of the cue and the arms to engage the cue-cavities flush with the surface of the cue. The set-screw is then placed in position to hold the arms fixed in place.

To remove the tip, it is only necessary to remove the set-screw and pull out the tip.

I am aware that it is not new to secure tips to billiard-cues by spring-arms attached to the cue having jaws operated by a clamping-ring and that it is also common to attach tips by means of a split tube controlled by a clamping-ring, as well as a split screw-threaded plug fitting a thimble and having jaws to grasp the tip. I therefore lay no claim to such structures; but

What I do claim is—

The combination with a billiard-cue having longitudinal cavities ending in a reduced portion, and a cue-tip having a peripheral groove and a neck of equal diameter to said reduced portion, of means for fastening the tip to the cue comprising two separate arms each being secured in the said cavities, and having movable ends, and a set-screw passing through the movable ends and through the cue, said movable ends being tapered and provided with lateral wings to hug the tip-neck and said reduced portion, one edge of the wings bearing against a shoulder of the cue and the other end forming a bearing for the tip, and having a lip to engage the said tip-groove, as set forth.

In witness whereof I hereunto set my hand in the presence of two witnesses.

PEYTON B. TARVER.

Witnesses:

C. B. KENDRICK,
W. B. STEWART.