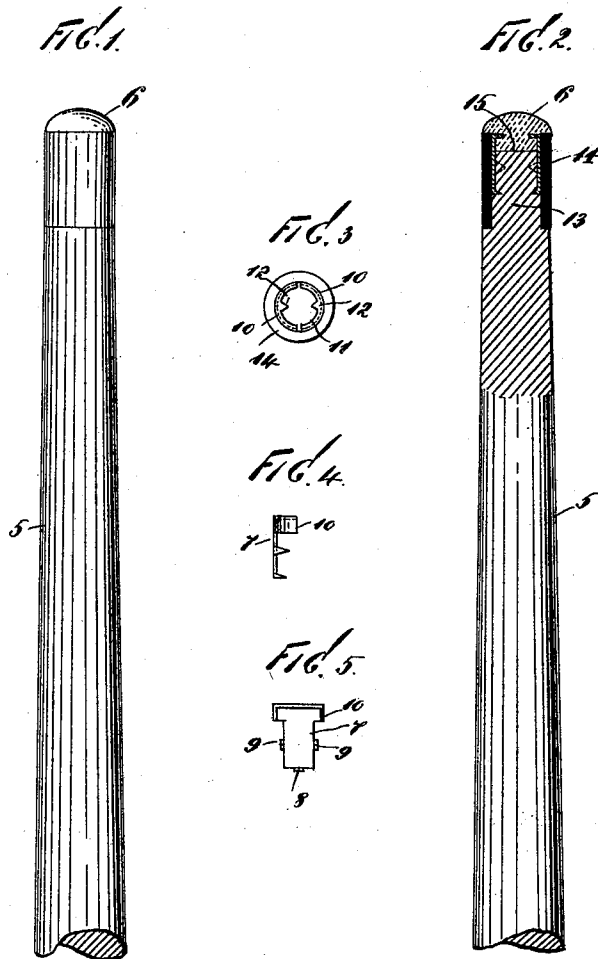


(No Model.)

G. MULLER.
TIP FOR BILLIARD CUES.

No. 591,487.

Patented Oct. 12, 1897.



WITNESSES
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UNITED STATES PATENT OFFICE.

GUSTAVE MULLER, OF BRIDGEPORT, CONNECTICUT.

TIP FOR BILLIARD-CUES.

SPECIFICATION forming part of Letters Patent No. 591,487, dated October 12, 1897.

Application filed September 3, 1896. Serial No. 604,753. (No model.)

To all whom it may concern:

Be it known that I, GUSTAVE MULLER, a citizen of the United States, and a resident of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Tips for Billiard-Cues, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar numerals of reference indicate corresponding parts wherever found throughout the several views.

This invention relates to improved tips for billiard-cues and to means for holding the same in position; and the object thereof is to provide improved devices of this class and for this purpose which are simple in construction and operation and which may be quickly and easily connected with or attached to a billiard-cue of the usual form.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a side view of the end of a billiard-cue provided with my improved tip attachment; Fig. 2, a longitudinal section thereof; Fig. 3, an end view of the attachment by which the tip is held in place; Fig. 4, an edge view of one part of said attachment, and Fig. 5 a side view thereof.

In the drawings forming part of this specification I have shown at 5 the end of a billiard-cue, and in the practice of my invention I provide means for securing the tip 6 in place thereon, which consists of two strips or plates 7, which are segmental in cross-section and provided at their lower ends with inwardly-directed teeth 8 and at their sides with similar teeth 9, and the outer ends thereof are provided with segmental heads 10, on the outer ends of which are formed inwardly-directed flanges 11, and each of said flanges is provided with one or more inwardly-directed teeth 12. These strips or plates 7 are secured to the end of the cue by forcing the teeth 8 and 9 thereinto, as shown in Fig. 2, and said strips or plates are also countersunk in the sides of the end of the cue, and said end of the cue is also provided with a reduced extension 13, with which said strips or plates are

connected, and in practice I pass thereover a strong rubber band or sleeve 14, and when the strips or plates are thus secured in place the outer ends thereof project a short distance from the reduced extension 13 at the end of the cue. The tip 6 is also provided with a cylindrical projection 15 on its inner side, and in practice the tip 6 is connected with the fastening or attaching devices, consisting of the plates or strips 7, by pressing one side of said cylindrical extension 15 against the inner side of the flange 11 of the circular head 10 of one of said strips or plates, so as to force it outwardly against the operation of the rubber sleeve or band 14, and then pressing the said tip firmly inwardly upon the end of the cue, and in this operation the flange 11 on the opposite strip or plate and the tooth or teeth 12 thereon will be forced into the tip, or into the cylindrical extension 15 thereof, and the teeth 12 and said flanges will securely hold the tip in place.

This device is simple in construction and operation and perfectly adapted to accomplish the result for which it is intended, and my invention is not limited to the exact form of the strips or plates 7, and it is evident that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages.

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

In the combination of a billiard-cue having a reduced extension on the end thereof, plates having teeth on the inner side adapted to engage said extension, a strong rubber band passing over said plates, a tip having a cylindrical projection on its inner side and adapted to be engaged by said plates, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 28th day of August, 1896.

GUSTAVE MULLER.

Witnesses:

FRANK M. CANFIELD,
WILLIAM J. BEECHER.