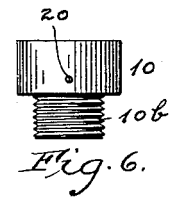
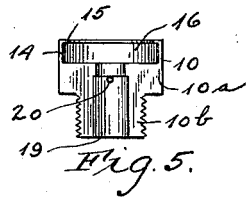
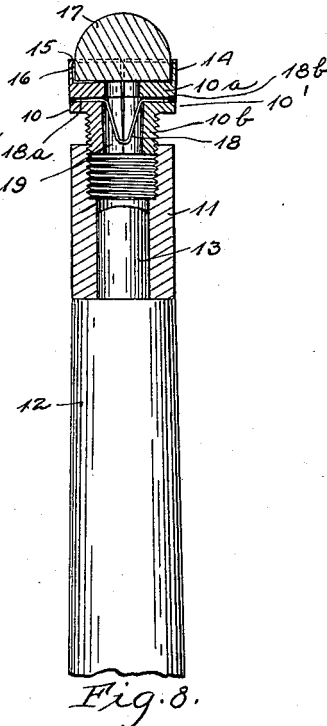
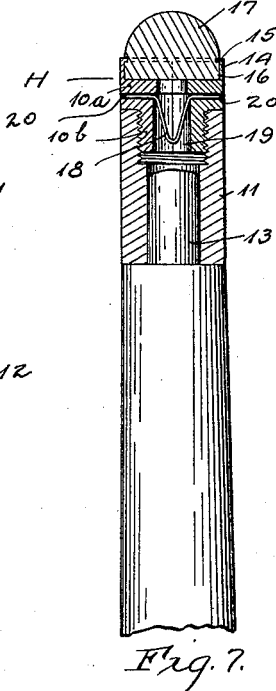
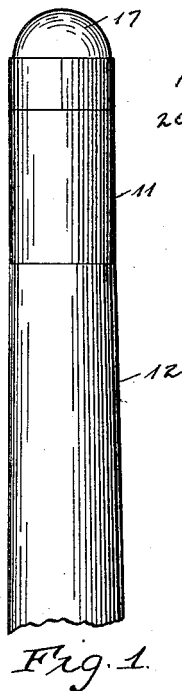
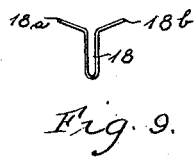
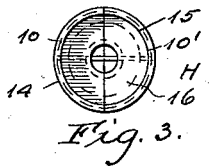
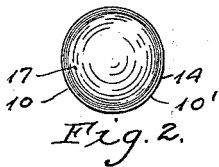


L. WEINBERG & M. MAREN.  
 DETACHABLE BILLIARD CUE TIP AND HOLDER.  
 APPLICATION FILED FEB. 13, 1913.

1,082,782.

Patented Dec. 30, 1913.



Witnesses:  
 Albert G. Gordon  
 Ruf. Meirau

Inventors:  
 Louis Weinberg  
 Max Maren  
 By Geo. S. Bines Atty.

# UNITED STATES PATENT OFFICE,

LOUIS WEINBERG AND MAX MAREN, OF CHICAGO, ILLINOIS.

DETACHABLE BILLIARD-CUE TIP AND HOLDER.

1,082,782.

Specification of Letters Patent.

Patented Dec. 30, 1913.

Application filed February 13, 1913. Serial No. 748,084.

*To all whom it may concern:*

Be it known that we, LOUIS WEINBERG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, and MAX MAREN, a subject of the Czar of Russia, residing at Chicago, in the county of Cook and State of Illinois, have invented an Improved Detachable Billiard-Cue Tip and Holder, of which the following is a specification.

Our invention relates to an improved detachable billiard cue tip and holder.

The usual way of securing tips to cues is to glue them on and when worn down they must be pulled or cut off and another glued in place. Glued tips are apt to loosen and if not properly glued on the cue will not be true and efficient.

The general object of our invention is to provide a simple detachable holder, readily applicable to a cue and which will securely and detachably clamp the tip in true position, with reference to the cue and without the need of glue. More in detail the important objects are to provide two semi-cylindrical holder members, having a threaded neck to be engaged by the cue end and having semi-circular jaws for clamping a tip; to provide such arrangement that the screwing of the holder into the cue end will effect drawing together of the jaws and clamping of the tip; to provide a yieldable coupling for the holder members, which will allow such members to be readily separated sufficiently to receive the tip but which will hold the members in alinement so that the threads on the neck extensions will register for accurate entry into the cue end; and to provide simplified means for securing the coupling to the holder members.

In the accompanying drawing on which the various features of the invention are illustrated: Figure 1, is an elevational view of the end of a cue. Fig. 2, is a top view. Fig. 3, is a plan view of the holder. Fig. 4, is a side elevational view of a holder member. Fig. 5, is an inside view of one holder member. Fig. 6, is a view of the outside thereof. Fig. 7, is a sectional view on plane, 7-7 Fig. 1 with the holder and tip in final position. Fig. 8, is a similar sectional view showing the holder with the tip about to be screwed into final position, and Fig. 9, shows the coupling spring in normal

condition before application to the holder members.

The holder H comprises the two semi-cylindrically shaped members 10 and 10' each having the body section 10<sup>a</sup>, and the neck section 10<sup>b</sup>, which is threaded so that when the members are placed together there will be a cylindrical body part, and a threaded cylindrical neck for threading into the end of the tubular section 11, secured to the end of the cue 12, the cue having a pin 13, securely fitting into this tubular section.

Each holder member has a semi-circular peripheral flange 14, with the internal head 15 at its end and when the members are brought together these flanges form with the member body parts, the pocket 16, for receiving a tip 17 of leather, rubber, or other suitable material. When the members are brought securely together, by being screwed into the tube 11, the head will sink into the tip and will hold the base of the tip securely against the body section of the holder.

In order that the holder may be more readily manipulated and perfect registration of its members assured, the members are preferably yieldably coupled together.

We preferably utilize a spring as a coupling member, a U shaped spring 18 (Fig. 9) being well adapted for this purpose. The neck sections 10<sup>b</sup>, have registering grooves, forming the pocket 19, for the spring, and to secure the spring to the holder members, its ends 18<sup>a</sup> and 18<sup>b</sup>, are bent outwardly to extend into holes 20 and 20<sup>a</sup>, in the body parts of the respective holder members. After the ends of the spring are inserted into these holes, the spring is spread and the ends then secured in the holes, preferably by soldering. The spring will then tend to hold the holder members together in perfect register so that the treads on the neck parts will register to engage truly in the threaded end of the tube section 11. By slightly separating the holder members, the tip can be inserted to be sufficiently held by the flanges and head in proper position. The holder is then screwed into the tube section 11 (Fig. 8) and as it reaches its final position the holder members are brought securely together and the tip securely and rigidly clamped by the flanges and heads (Fig. 7). When a tip is worn down, it can readily be removed and a

new tip inserted and proper and true positioning of the tip with reference to the cue is always assured. The holder is of simple construction and can be cheaply made, and  
5 standard tips can be used therein.

We do not desire to be limited to the exact construction and arrangement shown and described, as changes and modifications may be possible which would still come  
10 within the scope of the invention.

We claim as follows:

A detachable tip holder for billiard cues comprising semi-cylindric halves, extensions on said halves for clamping a tip, said  
15 halves being hollow to form a pocket, said halves having each a radial hole and said

holes being in alinement with each other, and a spring having primarily a V shaped body and diverging ends, said spring being inserted in said pocket and having its body  
20 spread to V shape and its ends inserted in said radial holes and secured therein whereby said halves will be yieldingly held together and in alinement.

In witness whereof, we have hereunto set  
25 our hands to the foregoing specification in the presence of two subscribing witnesses.

LOUIS WEINBERG.  
MAX MAREN.

Witnesses:

R. H. SMITH,  
A. E. GORDON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."