

J. V. BORROUGHS.
 BILLIARD CUE.
 APPLICATION FILED FEB. 14, 1910.

988,690.

Patented Apr. 4, 1911.

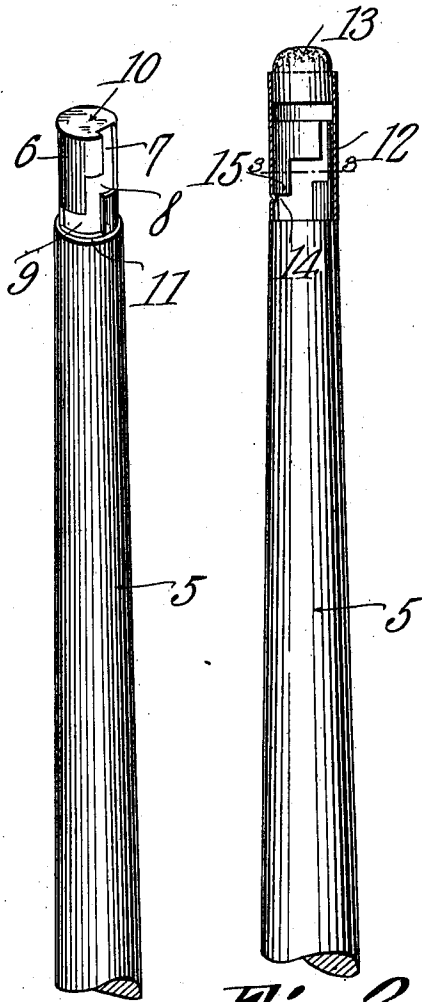


Fig. 1.
Fig. 2.

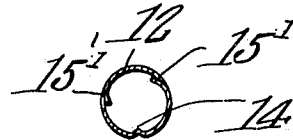
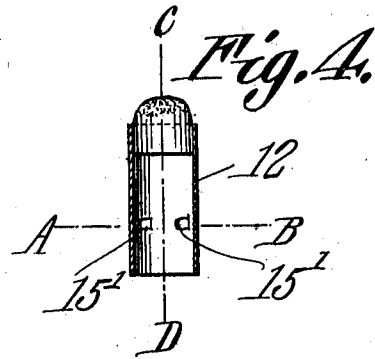


Fig. 5.

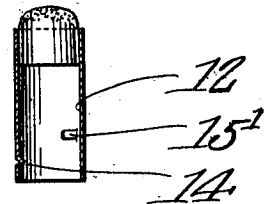


Fig. 6.

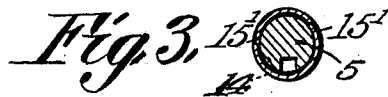


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

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BILLIARD-CUE.

988,690.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN V. BORROUGHS, a citizen of the United States, residing at El Paso, in the county of El Paso and State of Texas, have invented a new and useful Billiard-Cue, of which the following is a specification.

This invention relates to billiard cues and has an object to provide a billiard cue having a detachable tip which may be readily applied to and removed from the cue and will assume true alinement with the body of the cue when in applied position.

With the above and other objects in view, the invention resides in the general construction and arrangement of parts substantially as shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a cue constructed in accordance with the present invention, the tip for the cue being removed. Fig. 2 is a view partly in elevation and partly in vertical section, through the cue and tip. Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 2. Fig. 4 is a vertical sectional view through the tip, parts being shown in elevation. Fig. 5 is a horizontal sectional view on the line A—B of Fig. 4. Fig. 6 is a vertical sectional view on the line C—D of Fig. 4.

One of the disadvantages found in detachable tips as heretofore constructed is that the tip will not assume true alinement with the body of the cue unless particular care is taken in applying the tip, and further the tip is prone to twist upon the end of the cue when putting an "english" upon the cue ball. To obviate both the above disadvantages I provide the cue with a reduced end upon which the tip snugly fits and in the outer face of which is formed a bayonet slot, the walls of which engage an internal projection of the tip when the latter is being advanced to operative position and guide the tip to a true alinement with the body of the cue, the said projection engaging the wall of the slot at its end as the tip reaches its final position and operating to prevent longitudinal movement of the tip upon the cue. A plurality of spring tongues carried by the tip frictionally engage the surface of the reduced end of the cue and are intended to prevent retrograde move-

ment of the tip upon the cue unless by manual operation.

Referring now to the drawing in which like characters of reference designate similar parts in the cue shown, 5 designates the tapered body of a billiard cue of the usual and well known construction. The cue has a reduced end 6. Formed in the surface of the reduced end 6 is a bayonet slot the several angularly disposed portions of which are indicated by the numerals 7, 8 and 9, and this slot extends from the end 10 of the cue to the shoulder 11 of the reduced end, as shown.

The detachable tip consists of a tubular member 12 adapted to snugly fit the reduced end 6 and having a permanent tip 13 secured in one end of its bore. The tip 13 may be constructed of leather, fiber, or other suitable material and may be secured in the bore of the tubular member 12 by means of cement or may be inserted by a driving fit in the bore of the tubular member, as preferred. Formed upon the inner wall of the tubular member 12 is a projection 14 adapted to project into the slot in the cue as the tip is advanced to its operative position and to engage a side wall 15 of the portion 9 of the slot when the tip has been advanced to its final position and prevent longitudinal movement of the tip upon the cue. Formed in the inner wall of the tubular member 12 is a pair of spaced spring tongues 15', the free ends of which project rearwardly. These tongues frictionally bear against the surface of the reduced end of the cue when the tip is advanced to its final position and compensate for any looseness in fit between the tip and cue as well as tending to prevent retrograde movement of the tip unless by manual operation.

The spring tongues 15' by bearing against the surface of the reduced end of the cue prevent the twisting of the detachable tip upon the cue when an "english" is put upon the cue ball, while at the same time permitting the tip to be manually disengaged from the cue.

The portion 9 of the slot preferably extends circumferentially of the reduced end of the cue, as shown, so that the projection 14 when advancing along the wall 15 of the slot as the tip is being advanced to its final

position, will cause the tip to assume a position in true alinement with the body of the cue without attention from the operator, so that a damaged tip may be discarded and
5 hurriedly replaced with a new one.

What is claimed is:

A billiard cue having a reduced end, said reduced end having a bayonet slot formed in its surface, and a detachable tip adapted
10 to fit said reduced end and having an inter-

nal lug to project into the slot, and having a spring tongue adapted to frictionally bear against the surface of the said reduced end.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature 15 in the presence of two witnesses.

JOHN VERTIE BORROUGHS.

Witnesses:

P. BAUMGATNER,
H. NUSSBAUM.

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