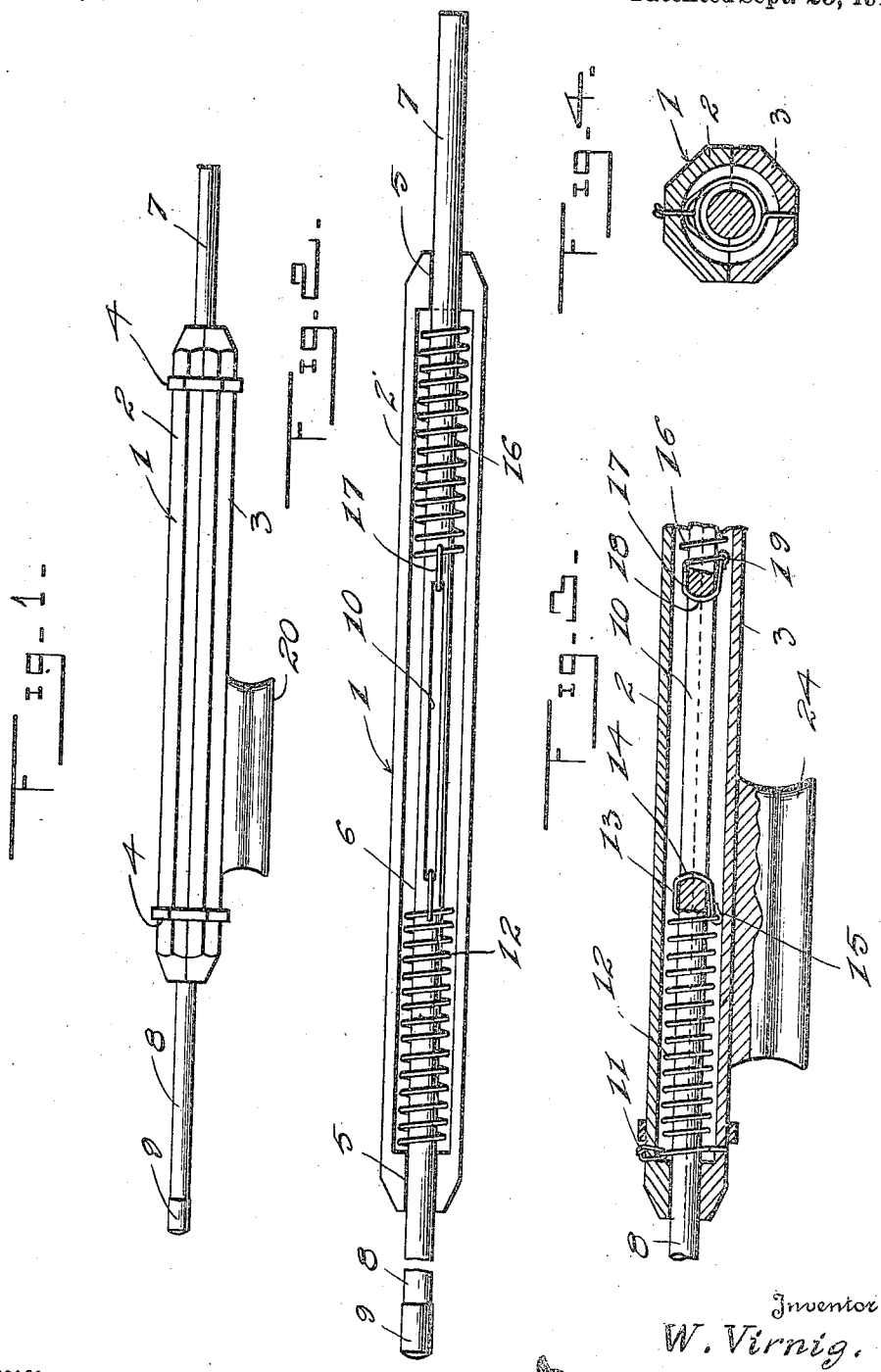
W. VIRNIG.

GAME CUE.

APPLICATION FILED JAN. 8, 1916.

1,241,312.

Patented Sept. 25, 1917.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM VIRNIG, OF BEMIDJI, MINNESOTA.

## GAME-CUE.

1,241,312. Specification of Letters Patent. **Patented Sept. 25, 1917.**

Application filed January 8, 1916. Serial No. 71,025.

*To all whom it may concern:*

Be it known that I, WILLIAM VIRNIG, a subject of the King of Great Britain, residing at Bemidji, in the county of Beltrami and State of Minnesota, have invented certain new and useful Improvements in Game-Cues; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to game cues, and the primary object of the invention is to provide a spring controlled cue which is adapted for use when playing games, such as crokinole, carom, or the like, wherein the thumb and finger are usually employed for propelling the shooter or cue ring.

Another object of this invention is to provide a cue as specified, which includes a casing having a cue mounted therein for longitudinal movement within the casing, one end of which cue projects beyond one end of the casing for forming a handle, and the other end of the cue projecting beyond the end of the casing for forming the striking end.

A further object of this invention is to mount springs within said casing and coil them about said cue, one of which springs will act as a propelling spring for forcing the cue outwardly in a striking operation, and the other spring acting as a cushioning spring, also to provide a longitudinally extending slot within said cue, through which the inner ends of said springs extend for connecting the springs to the cue.

With the foregoing and other objects in view this invention consists in such novel features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings and claimed.

In describing the invention in detail reference will be had to the accompanying drawings wherein like characters designate like and corresponding parts throughout the several views, and in which:—

Figure 1 is a side elevation of the improved game cue.

Fig. 2 is a longitudinal section through the cue showing a portion of the striking end of the same broken away.

Fig. 3 is a fragmentary sectional view through the game cue taken at right angles to the section illustrated in Fig. 2, and

Fig. 4 is a cross sectional view through the game cue.

Referring more particularly to the drawing, 1 designates the casing of the cue as an entirety, which is composed of sections 2 and 3, equal in size and which sections are held in their proper connected positions by rings or ferrules 4, which encompass the casing adjacent to its ends. The internal bore of the casing, adjacent its ends is reduced as is shown at 5, so as to form snug fitting bearings for the cue proper which is indicated by the numeral 6. The cue proper, comprises a circular rod, the ends of which project beyond both ends of the casing 1. The end 7 of the cue 6 forms a handle, while the end 8 forms the striking end of the cue. The end 8 of the cue has a tip 9 mounted thereon which is constructed of any suitable type of cushioning material, such as rubber, felt or the like.

The cue 6 is provided with a longitudinally extending slot 10, which is positioned substantially equi-distant of its end and interiorly of the casing 1. The casing 1 has a link 11 connected thereto which projects inwardly into the bore of the same and has one end of a coil spring 12 connected thereto. The spring 12 is coiled about the cue 6 and has its end remote from the end which is connected to the link 11, bent to assume substantially a U-shape as is shown at 13, the bight portion 14 of which projects through the slot 10 and engages one of the end walls of the slot. The free end of the U-shaped portion 13 of the spring is twisted about the innermost convolution of the spring, as shown at 15 so as to securely connect the U-shaped end of the spring to the main body.

A second spring 16 is connected to the casing 6, by a link analogous to the link 11 and it is coiled about the cue 6. The spring 16 has its end 17, which is remote from the end that is connected to the link, bent to assume substantially a U-shaped portion, the bight portion 18 of which engages the end of the slot 10 remote from the end which is engaged by the bight portion 14 of the U-shaped end 13 of the spring 12. The free end of the U-shaped portion 17 of the spring 16, is twisted about the innermost convolution of the spring, as is shown at 19 for securely connecting the end of the spring to the body and holding the U-shaped portion 17 in proper position.

A hand grip 20 is formed upon the section 3 and is provided for facilitating the use of the cue.

In the operation of the improved cue, when it is desired to project a cue ring, ball, or the like, the cue is moved longitudinally within the casing 1, moving the handle end 7 outwardly, which compresses springs 16 and stretches or expands the spring 12, so that when the pulling power upon the cue is released, the spring 12 will contract, and force the striking end 8 of the cue outwardly, causing it to impart motion to a cue ring, ball or the like which is positioned within its path. Upon the contraction of the spring 12, and the outward forcing of the striking end of the cue, the spring 16 will act as a cushion to the outward forcing action of the cue.

In reducing the invention to practice certain minor features of construction, combination and arrangement of parts may necessitate alterations to which the patentee is entitled provided such alterations are comprehended within the scope of what is claimed.

What is claimed is:—

A game cue comprising a casing, a cue slidably mounted within and having its ends projecting beyond the casing, the cue being provided between its ends with an elongated slot extending longitudinally thereof, cushion and projecting coiled springs located within the casing and surrounding the cue with their opposing ends relatively spaced, means securing the remote ends of the springs to the casing, and means connected to the opposite ends of the springs and slidably passing the slot near the ends thereof so that the movement of the cue in one direction will expand the projecting spring and slide through the cushion spring and the movement of the cue under the influence of the projecting spring will near the end of said movement expand the cushion spring.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM VIRNIG.

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