

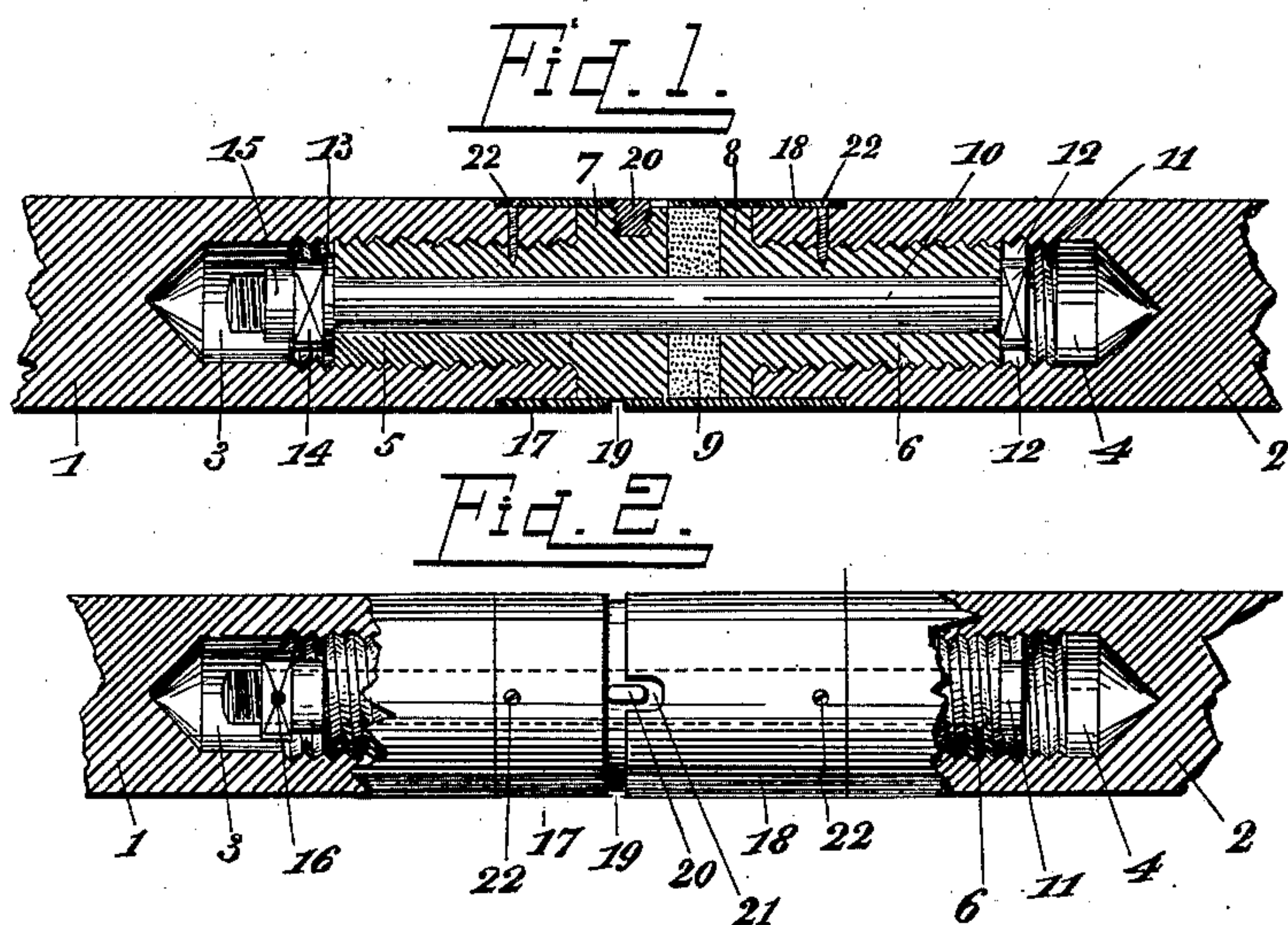
No. 664,528.

Patented Dec. 25, 1900.

J. BRAUERS.  
BILLIARD CUE.

(Application filed Apr. 4, 1900.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

JEAN BRAUERS, OF BRUSSELS, BELGIUM.

## BILLIARD-CUE.

SPECIFICATION forming part of Letters Patent No. 664,528, dated December 25, 1900.

Application filed April 4, 1900. Serial No. 11,474. (No model.)

*To all whom it may concern:*

Be it known that I, JEAN BRAUERS, a subject of the Queen of the Netherlands, and a resident of Brussels, Belgium, have invented certain new and useful Improvements in Billiard-Cues, of which the following is a specification.

My present invention relates to billiard-cues, the object being to provide an improved device of this kind whereby a short and elastic shock may be produced on the ball, so as to facilitate playing and to enable the player to execute easily the usual strokes—such as drawing, running, staking, &c.—which can be performed only with great difficulty by using the cues now in use.

The invention consists in making the cue of two parts, which are united to each other after the insertion of a yielding disk or plate in such a manner as to permit of a slight longitudinal movement of both parts, said movement being obtained in practice by the compression of said yielding disk. I am aware that attempts have already been made to insert such yielding disks into billiard-cues.

The characteristic feature of my invention consists in providing means whereby the yielding disk is prevented from expanding radially, so that it will produce its elastic action only lengthwise to the cue; otherwise such yielding disks are simply compressed without producing an appreciable yielding action in the longitudinal direction of the cue.

With the above and other objects in view my invention consists of the construction and novel combination of parts fully described and claimed hereinafter, reference being had to the accompanying drawings, wherein—

Figure 1 is a central longitudinal section, and Fig. 2 is a side elevation of the cue, with parts broken away.

Referring to the drawings, 1 2 indicate the two portions of the cue, 1 being the rear or thick part, and 2 the fore or beveled part, of the cue. The end faces, cut at right angles with the longitudinal axis of the cue, are each provided with a central screw-threaded recess 3 and 4, respectively, into which I screw the parts 5 and 6, made of suitable hard material, such as horn, and provided at their outer ends with flanges 7 and 8, made of a diameter which is nearly equal to the outer diameter of the

cue and between the flat ends of which is inserted the yielding disk 9. The portions 1 and 2 of the cue are connected to each other by means of a screw-bolt 10, extending with little play through the parts 5 and 6 and through the disk 9 and the flat head 11 of which is held against rotation within a corresponding recess 12, provided at the inner end of the part 6. Against the inner end of the part 5 is pressed a washer 13, against which bear the nut 14 and jam-nut 15. After tightening said nuts the jam-nut 15 may be secured in place by means of a pin 16 passing through it and the bolt 10.

Over the outer recessed surface of the parts 1 and 2 are fitted and secured sleeves 17 and 18, respectively, in such a manner as to provide a perfectly smooth surface. The sleeve 18 is somewhat longer than the sleeve 17 and surrounds the outer surface of the flange 8, the yielding disk 9, and the outer surface of the flange 7, upon which it is adapted to slide. The other sleeve 17, the purpose of which is rather to provide means for covering the joint between 1 and 7, is secured on the portion 1 of the cue and surrounds the outer surface of the flange 7, but does not extend to the sleeve 18, so as to leave an annular space 19 between it and said sleeve 18. Into the flange 7 is screwed a pin 20, extending into a short elongated open slot 21, provided in the sleeve 18, to prevent the rotation of the parts when the cue is in use.

The portions of the cue are united as follows: The bolt 10 is introduced into the part 6, which is then screwed into the forward portion 1 of the cue. Now the yielding disk 9 is slipped over the bolt 10 against the part 6, whereupon the sleeve 18 is brought to its place and the part 5, the washer, and the nuts 14 and 15 are fitted over the bolt 10, the nut 14 being tightened as much as possible, so as to strongly compress the yielding disk 9. Then the part 5 is screwed into the portion 2 of the cue after the sleeve 17 is fitted over said portion. In order to prevent a non-authorized detaching of the parts, the sleeves 17 and 18 are secured in place by means of small screws 22, as shown.

The yielding disk 9 is preferably made of soft very elastic rubber, and the edges thereof may be beveled, so as to clear sufficient



space for the compression of said disk. When the disk 9 is in a non-compressed state, the outer surface thereof need not come in contact with the inner surface of the sleeve 18, as said disk fills the inner space when it is compressed.

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

10 1. The combination with the portions 1 and 2 adapted to form a billiard-cue, of a disk, made of yielding material, inserted between the adjacent ends of said portions, a suitable bolt in the longitudinal axis and extending  
15 partially into each of the latter, means for holding said bolt in place, a sleeve secured on the outer surface of one of said portions and surrounding completely the outer surface of said yielding disk, and suitable means for pre-  
20 venting the relative rotation of the portions 1 and 2, substantially as and for the purpose set forth.

2. The combination to form a cue, of two lengthwise sections bored and internally  
25 screw-threaded at their meeting ends, two centrally-bored and externally-threaded members fitting into said sections and having flanged or discular heads about the diameter

of the cue, a disk of elastic material interposed between said heads, and a bolt passing  
30 lengthwise through the central bore of said members and binding them together against said disk.

3. The combination to form a cue, of two lengthwise sections bored and internally  
35 screw-threaded at their meeting ends, two centrally-bored and externally-threaded members fitting into said sections and having flanged heads, a disk of elastic material interposed between said heads, a bolt passing  
40 through the central bore of said members and binding them against the disk, an external sleeve fixed to one of the cue-sections and covering the joint between said member and the corresponding flanged head, a sleeve upon  
45 the other section projecting past the corresponding flanged head, and a pin engaging with a slot in said latter sleeve to prevent rotation of the parts after assembled together.

In testimony whereof I have hereunto set  
50 my hand in presence of two witnesses.

JEAN BRAUERS.

Witnesses:

B. ACKER,  
GREGORY PHELAN.