

H. A. JOST.
REINFORCED FERRULE FOR CUES.
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1,210,076.

Patented Dec. 26, 1916.

FIG. 1.

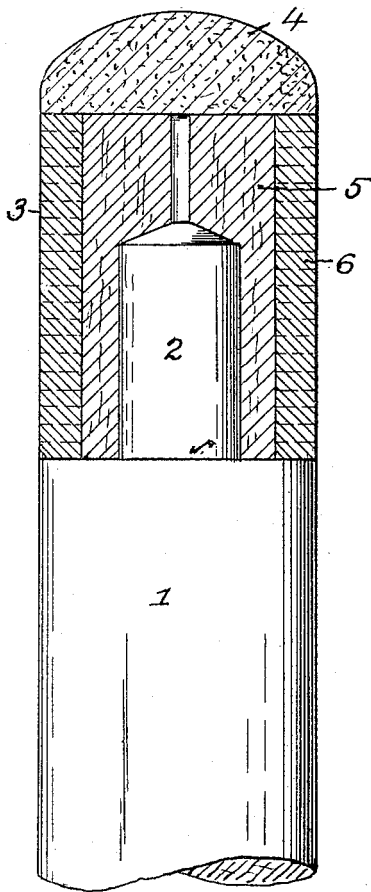
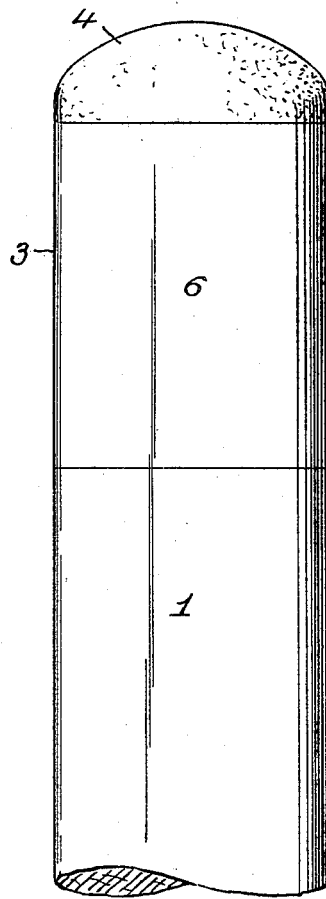


FIG. 2.



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UNITED STATES PATENT OFFICE.

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Application filed April 10, 1916. Serial No. 90,020.

To all whom it may concern:

Be it known that I, HARRY A. JOST, a citizen of the United States of America, and a resident of Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Reinforced Ferrules for Cues, of which the following is a specification.

This invention relates to non-metallic ferrules for billiard cues, and has for its object to provide an efficient structural formation and association of parts in a non-metallic ferrule, by means of which the ferrule is reinforced or strengthened, and the tendency to check and split by age is prevented, all as will hereinafter more fully appear.

In the accompanying drawings, Figure 1, is an enlarged sectional elevation illustrating the present improvement applied as the intermediate connection between the usual leather cue tip and the end of the cue. Fig. 2, is a side elevation of the same.

Similar reference numerals indicate like parts in both views.

Referring to the drawings, 1 designates the end or point portion of a billiard cue having the usual reduced stud or dowel 2 for the reception and attachment of a ferrule 3. And to such ferrule, 3, the leather cue tip 4 is attached in a conventional manner.

In the present invention, the ferrule 3 is formed by inner and outer annular sections 5 and 6 of non-metallic material, such as commercial celluloid, and a material part of the present invention consists in forming the inner annular section 5 aforesaid out of com-

mercial rod celluloid, in which the grain or fiber extends longitudinally with a tendency to check and split in the like direction, and in forming the outer annular section 6 aforesaid, out of commercial sheet celluloid, which is composed of the required member of thin sheets welded together during manufacture, and in which the tendency to check and split is in one direction of the sheet.

By the described association of the parts, I have found from extended practical use that the checking and splitting tendency of the one section in its natural direction is efficiently counteracted by the tendency of the other section to check and split in its natural direction, such directions of checking and splitting being in right-angle relation in the present structure.

The present improvement is equally adapted for use in a coupling ferrule for sectional billiard cues.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:—

A ferrule for billiard cues, formed of non-metallic material of a fibrous nature, and comprising inner and outer annular sections associated together, the inner section having its direction of checking longitudinal of the section and the outer section having its direction of checking transverse of the section, substantially as set forth.

Signed at Chicago, Illinois, this 8th day of April, 1916.

HARRY A. JOST.

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