

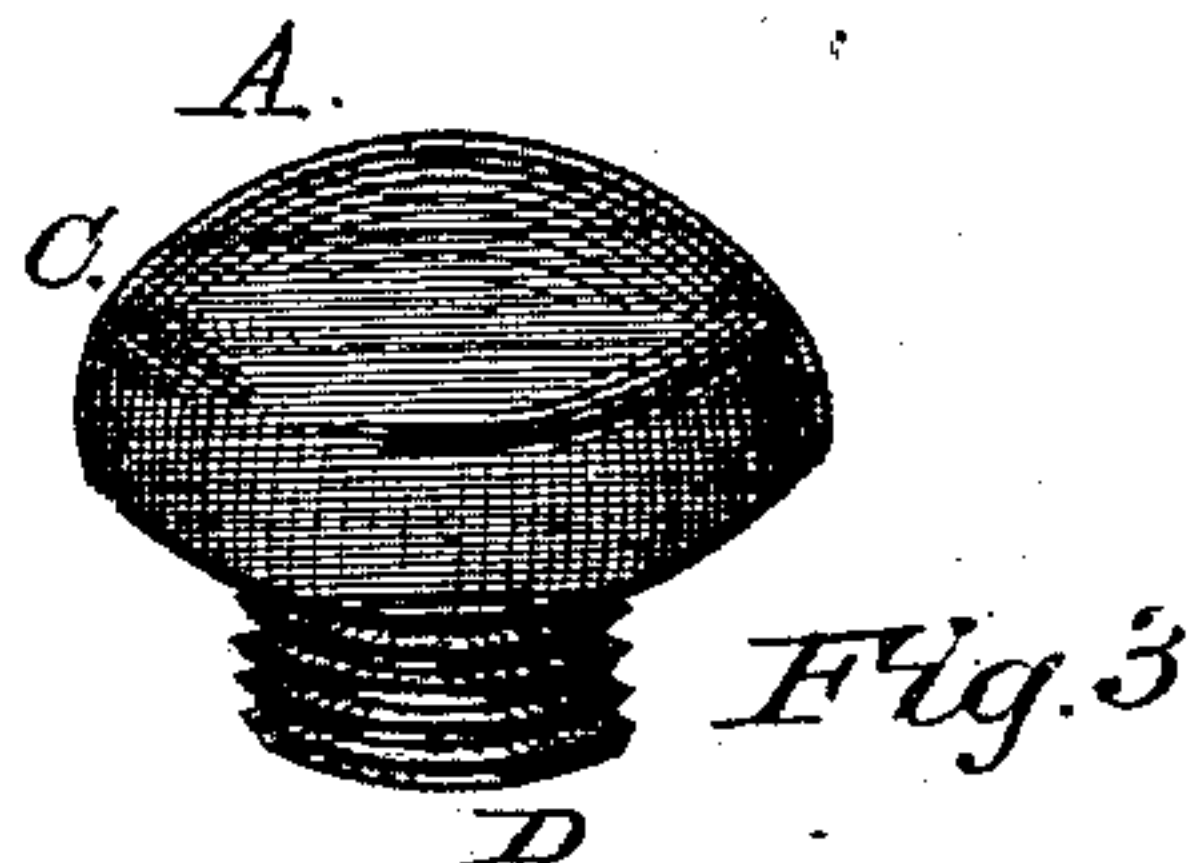
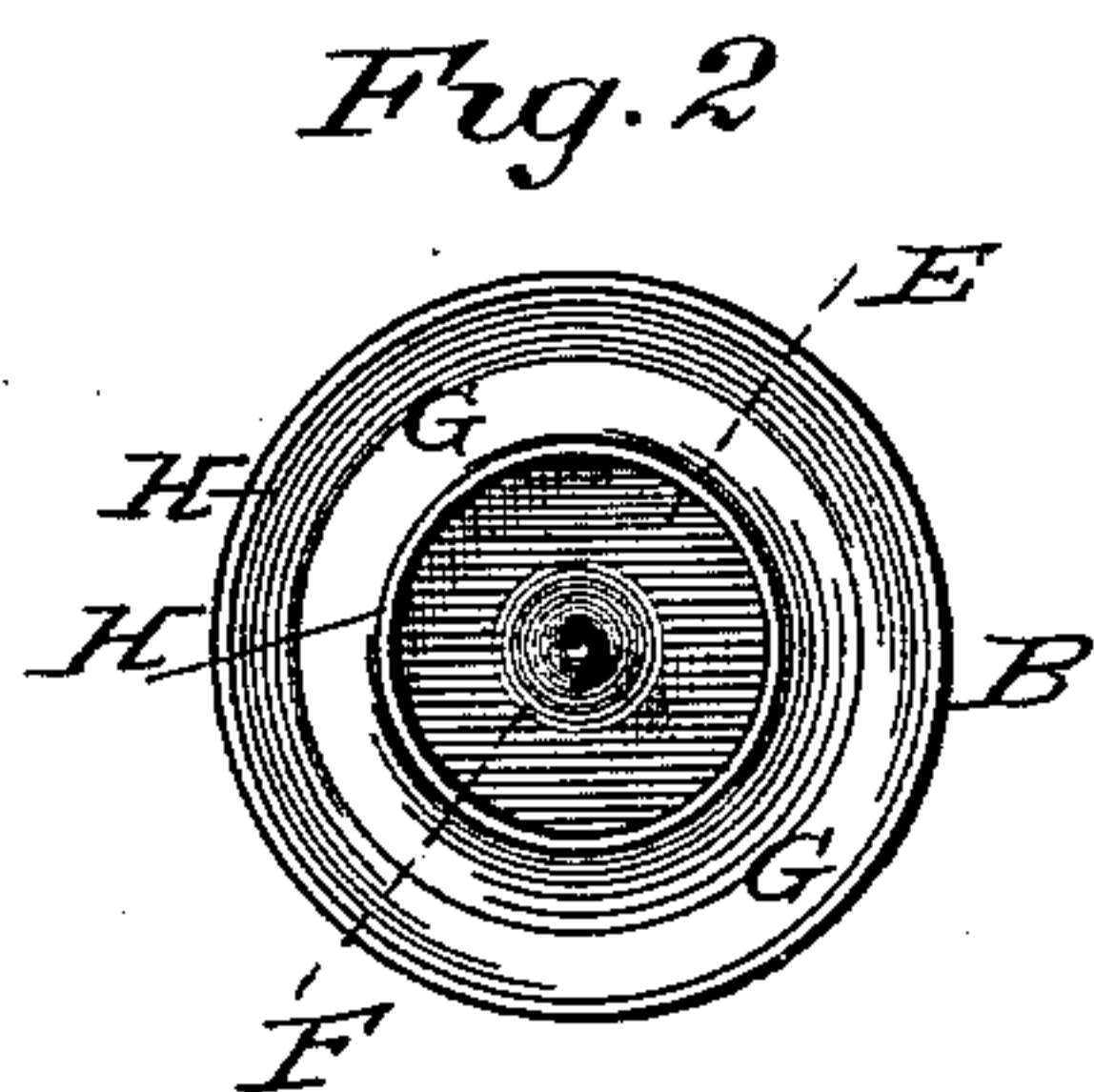
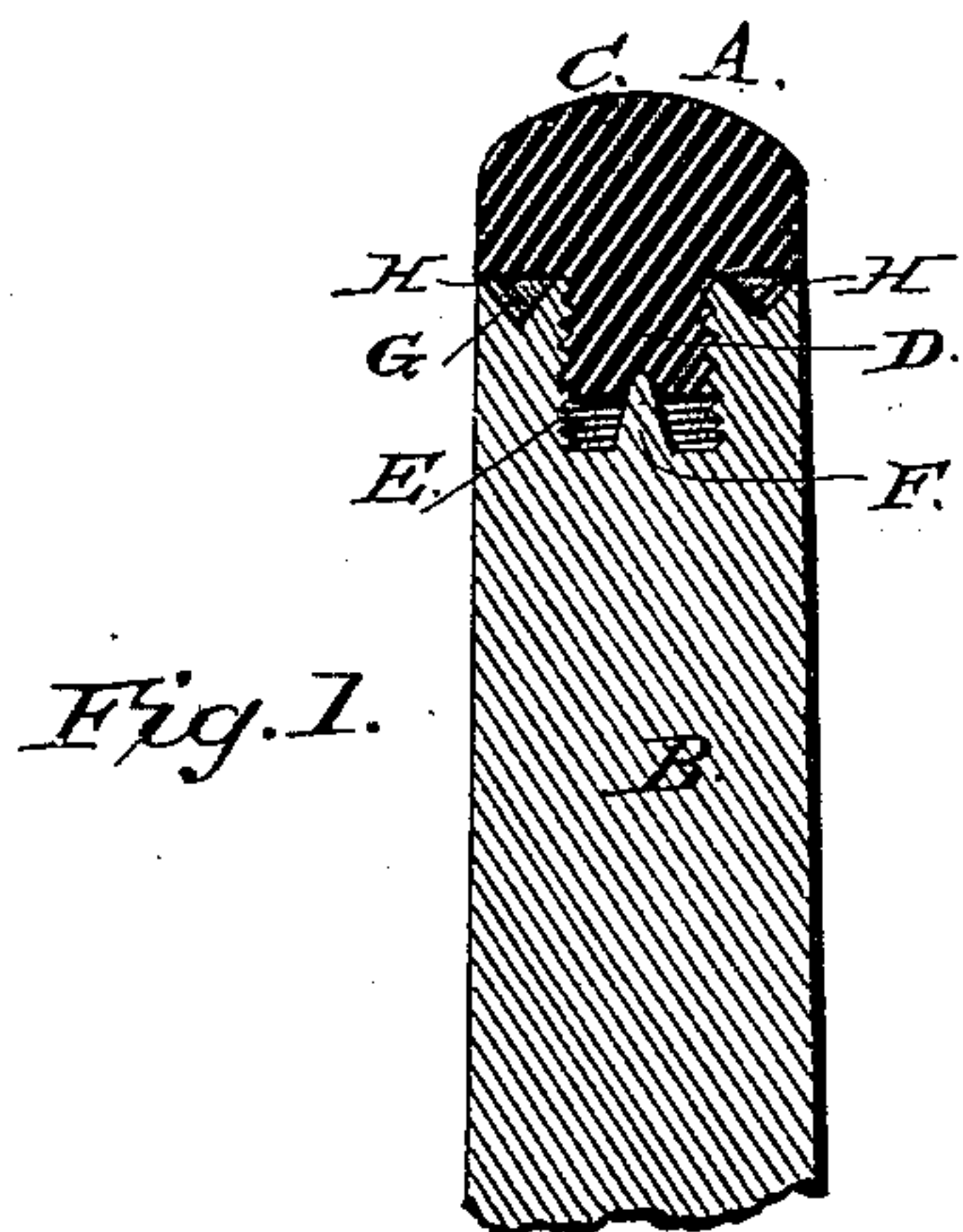
(No Model.)

S. J. GLEASON.

BILLIARD CUE.

No. 278,934.

Patented June 5, 1883.



WITNESSES:

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UNITED STATES PATENT OFFICE.

SAMUEL J. GLEASON, OF PEORIA, ILLINOIS.

BILLIARD-CUE.

SPECIFICATION forming part of Letters Patent No. 278,934, dated June 5, 1883.

Application filed February 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL J. GLEASON, of Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful
5 Improvements in Billiard-Cues; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference
10 being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal sectional view of the end of a billiard-cue provided with my improved tip. Fig. 2 is an end view of the cue, and Fig. 3 is a perspective view of the tip.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to tips for billiard-cues; and it consists in the improved construction and combination of parts of a tip having a screw-threaded shank fitting into a screw-threaded hole in the end of the cue, as herein-
20 after more fully described and claimed.

25 In the accompanying drawings, the letter A indicates the tip, and B the end, of the cue.

The tip consists of a plate or cushion, C, of rubber or other yielding material, of the same diameter as the end of the cue, from the under
30 side of which projects a screw-threaded shank or lug, D, of the same material, and made in one with the plate. This shank is screwed into a female-screw-threaded recess, E, in the end of the cue, from the bottom of which projects a
35 conical plug or pin, F, which bears against the lower end of the screw-threaded shank of the tip. The upper end of the cue has an annu-

lar groove, G, forming two sharp annular rims, H, which serve to bite into the yielding material of the tip as it is screwed down into the
40 recess, holding the tip firmly in place.

It will be seen that as the tip is screwed down into the recess in the end of the cue the conical pin F will press against the lower end of the shank, spreading it and causing it to
45 fill the screw-threads and hold the tip firmly, while the sharp rims H, biting into the under side of the tip, will prevent it from yielding laterally upon the end of the cue.

Having thus described my invention, I claim 50 and desire to secure by Letters Patent of the United States—

1. The combination, in a billiard-cue, of the tip A, of elastic or yielding material, and having screw-threaded shank D, with the cue B, 55 having screw-threaded recess E at its upper end, having conical plug or pin F at the bottom, as and for the purpose shown and set forth.

2. The combination, in a billiard-cue, of the 60 tip consisting of plate C and screw-threaded shank D, of flexible or yielding material, with the cue B, having screw-threaded recess E, with conical plug F at the bottom and annular groove G at its upper end, as and for the purpose 65 shown and set forth.

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

SAMUEL J. GLEASON.

Witnesses:

GEORGE W. LORENTZ,
WILLMON T. LAKE.