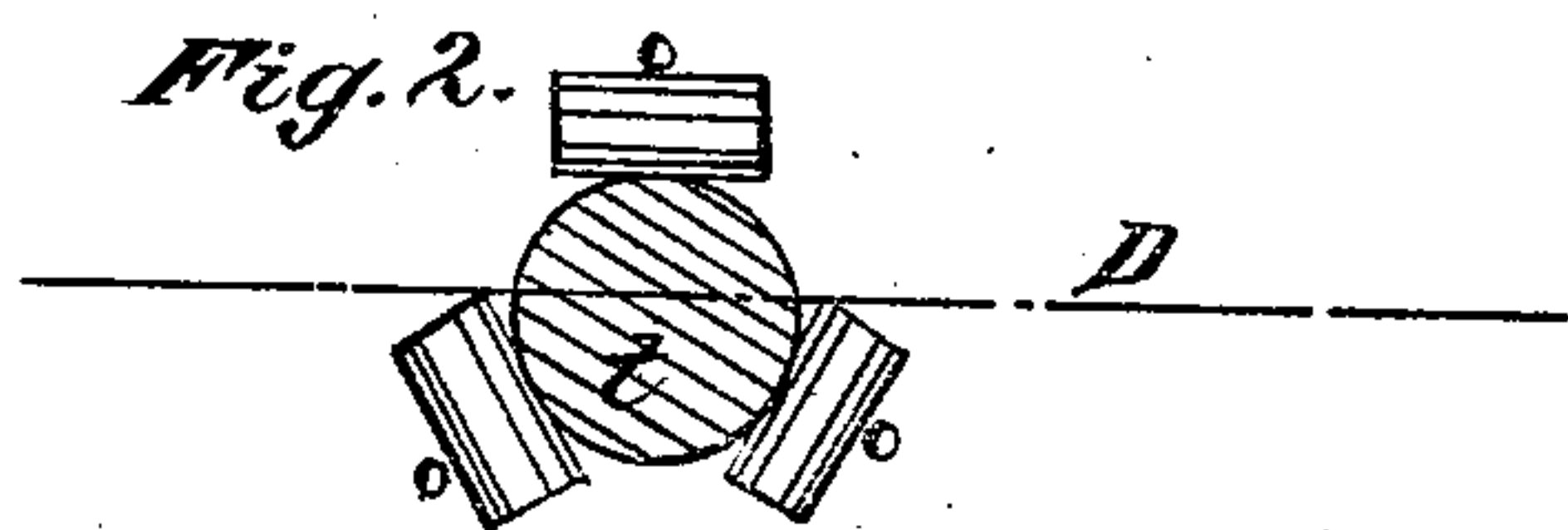
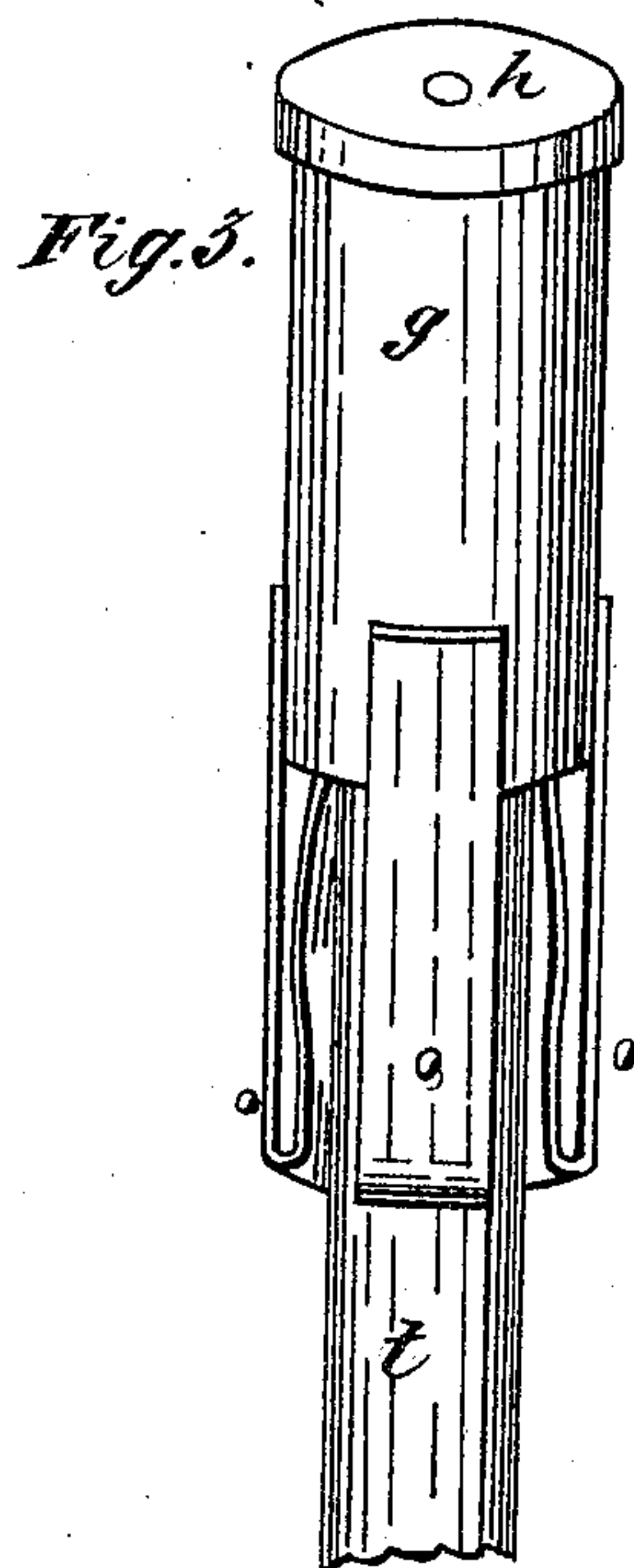
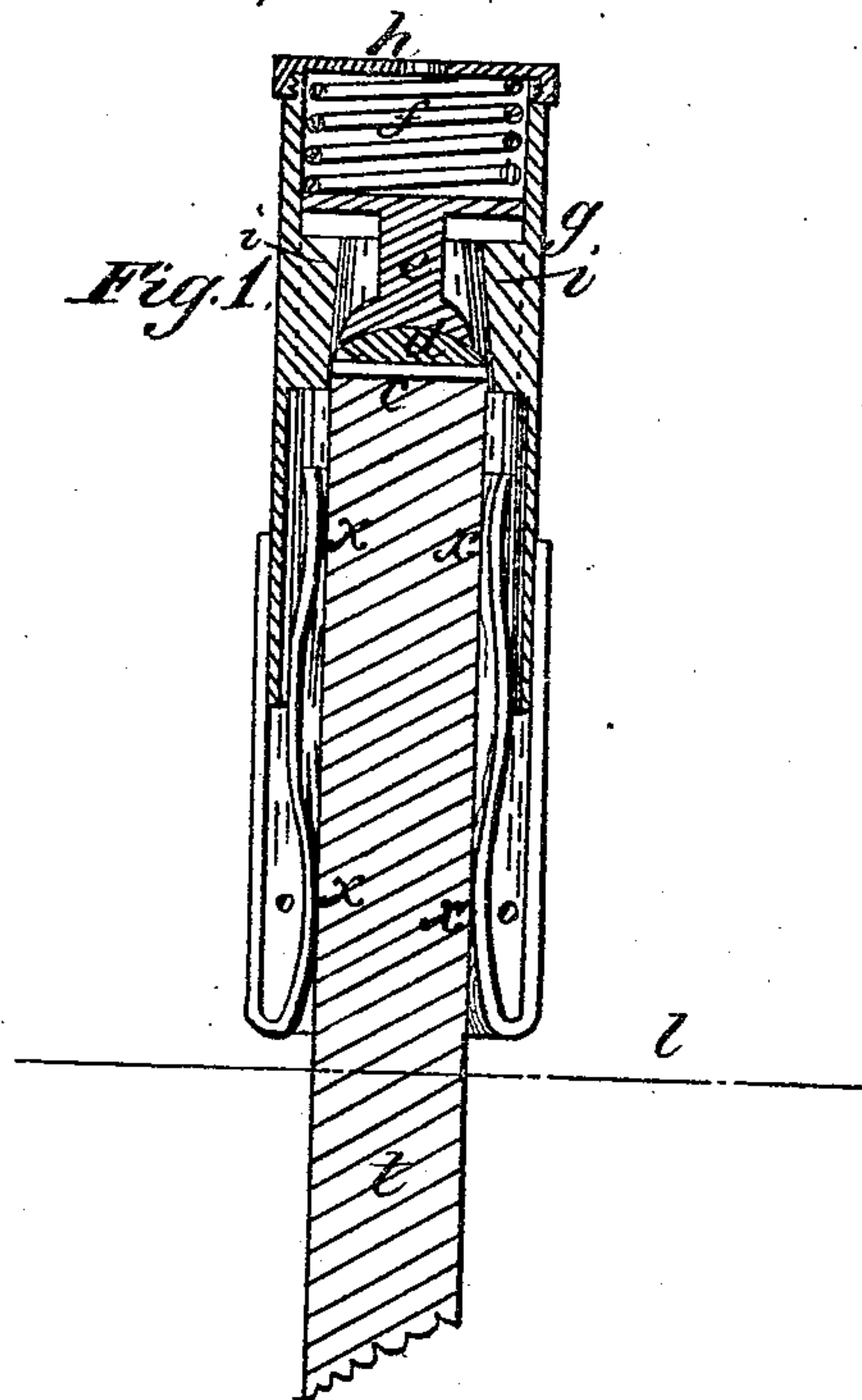


S. Gissinger,
Billiard-Cue-Tip Fastener,
Nº 60,503. *Patented Dec. 18, 1866.*



Witnesses.

James F. Johnston
John Johnston

Inventor.

Samuel Gissinger.

United States Patent Office.

IMPROVEMENT IN CLAMPS FOR GLUING THE TIPS ON BILLIARD CUES.

SAMUEL GISSINGER, OF LAWRENCEVILLE, PENNSYLVANIA, ASSIGNOR TO
HIMSELF AND DAVID E. HALL, OF PITTSBURG, PENNSYLVANIA.

Letters Patent No. 60,503, dated December 18, 1866.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL GISSINGER, of the borough of Lawrenceville, in the county of Alleghany, and State of Pennsylvania, have invented certain new and useful Improvements in Clamps for Gluing Tips upon the Ends of Billiard Cues; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and the letters of reference marked thereon.

The nature of my invention consists in holding the leather tips of billiard cues in such a manner that they will be truly centred and held upon the end of the cue during the process of gluing them to the cue by means of the mechanism hereinafter described.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation. In the accompanying drawings—

Figure 1 is a longitudinal section of my apparatus cut through the line D, fig. 2, showing an inserted tip and cue in the proper position.

Figure 2 is a transverse section of the cue, *t*, cut through the line *l*, showing an end view of the springs, *o*.

Figure 3 is a perspective view of my apparatus placed upon the end of a cue.

The manner in which I construct and use my invention is as follows: I take a piece of cylindrical pipe, about two and one-half inches long and one inch in diameter in the inside, and place within it and about three-fourths of an inch from one end the chamber marked *i*, and fasten it there by any suitable means, said chamber being bored out large enough at one end to receive the tips of the largest size, and gradually tapering smaller to the other end, and serving the purpose of stopping the cue after the tip has come in contact with the cup-shaped piston, *e*. I now place within the short end of the pipe the piston marked *e*, (fig. 1,) the neck of which extends into the conical chamber *i*, said neck terminating in a cup-shaped end, for the purpose of guiding the tip to the centre of the cue, and holding it on the end of the cue by means of the spiral spring *f*, said spring and piston being held in position in the pipe or chamber, *g* by the cap *h*; I now fasten to the lower end of the pipe or chamber *g*, three or more springs, *o*, made in shape as shown in figs. 1 and 3, so that they will have a bearing on the cue at two different points of its length, as indicated by the points marked *x*, and serving the double purpose of holding its axis parallel to the axes of the chambers *g* and *i*, and holding the apparatus on the cue.

The manner in which I use my invention is as follows: Having all things properly prepared, I take the tip, which is composed of a soft piece of leather, *a*, fastened to a thin, hard piece, *c*, and place it, with sufficient glue to hold it, upon the end of the cue, and then shove the cue into the clamp, as shown in fig. 1, the springs *o* guiding it into the chamber *i*; the tip then comes in contact with the cup-shaped piston, *e*, which guides it to the required position on the end of the cue, said piston holding it there until the glue is firmly set, when the clamp may be removed and the operation repeated as often as required. I wish it distinctly understood that I do not confine myself to the precise manner of construction herein set forth, for the same may be varied in the judgment of the maker; for instance, the chambers *g* and *i* may both be cast in one piece, and bored out to the required form and size, which would probably be the best method of making it; and the springs *o* and *f* may also be varied to suit the taste and judgment of the mechanic.

Having thus described the nature, construction, and operation of my improvement, what I wish to claim as of my invention, is—

The springs *o*, or their equivalent, formed in such a manner as to have a bearing on the cue at two different points of its length, in combination with the conical chamber *i*, piston *e*, and spring *f*, the whole being arranged and operating substantially in the manner herein described, and for the purpose set forth.

SAMUEL GISSINGER.

Witnesses:

JAMES McBRIDE,

JAMES J. JOHNSTON.