

No. 771,727.

PATENTED OCT. 4, 1904.

H. HAES.
BILLIARD CUE AND TIP THEREFOR.

APPLICATION FILED JUNE 27, 1902.

NO MODEL.

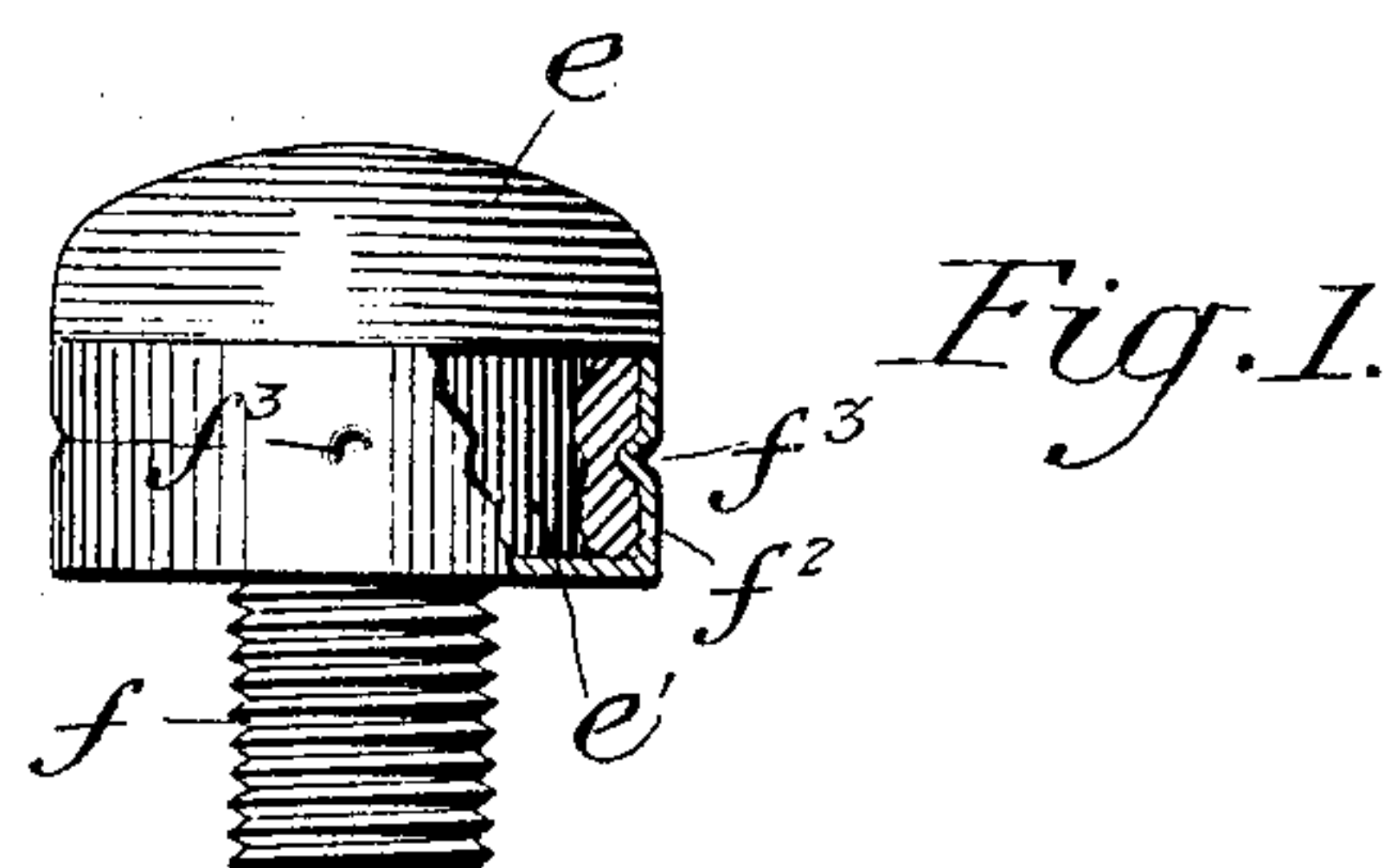


Fig. 1.

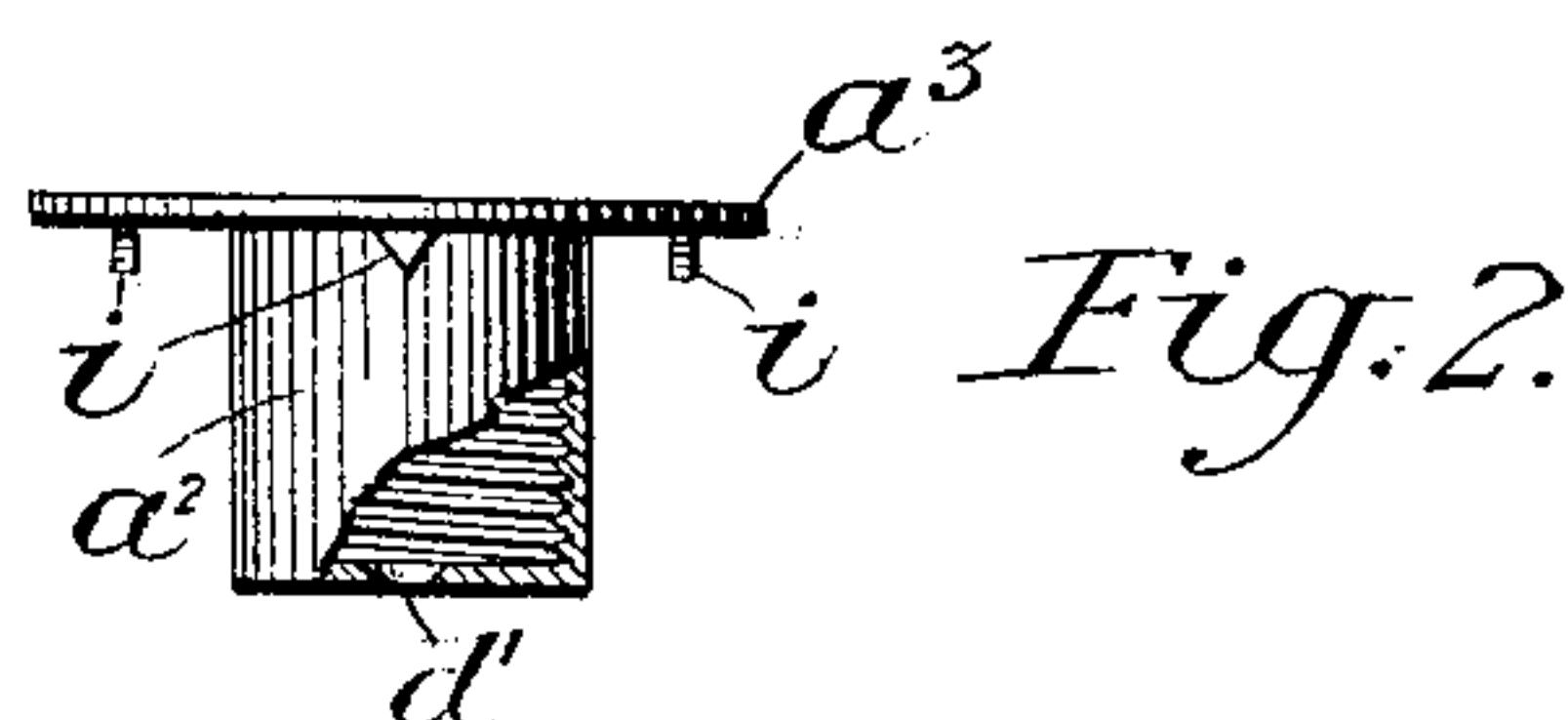


Fig. 2.

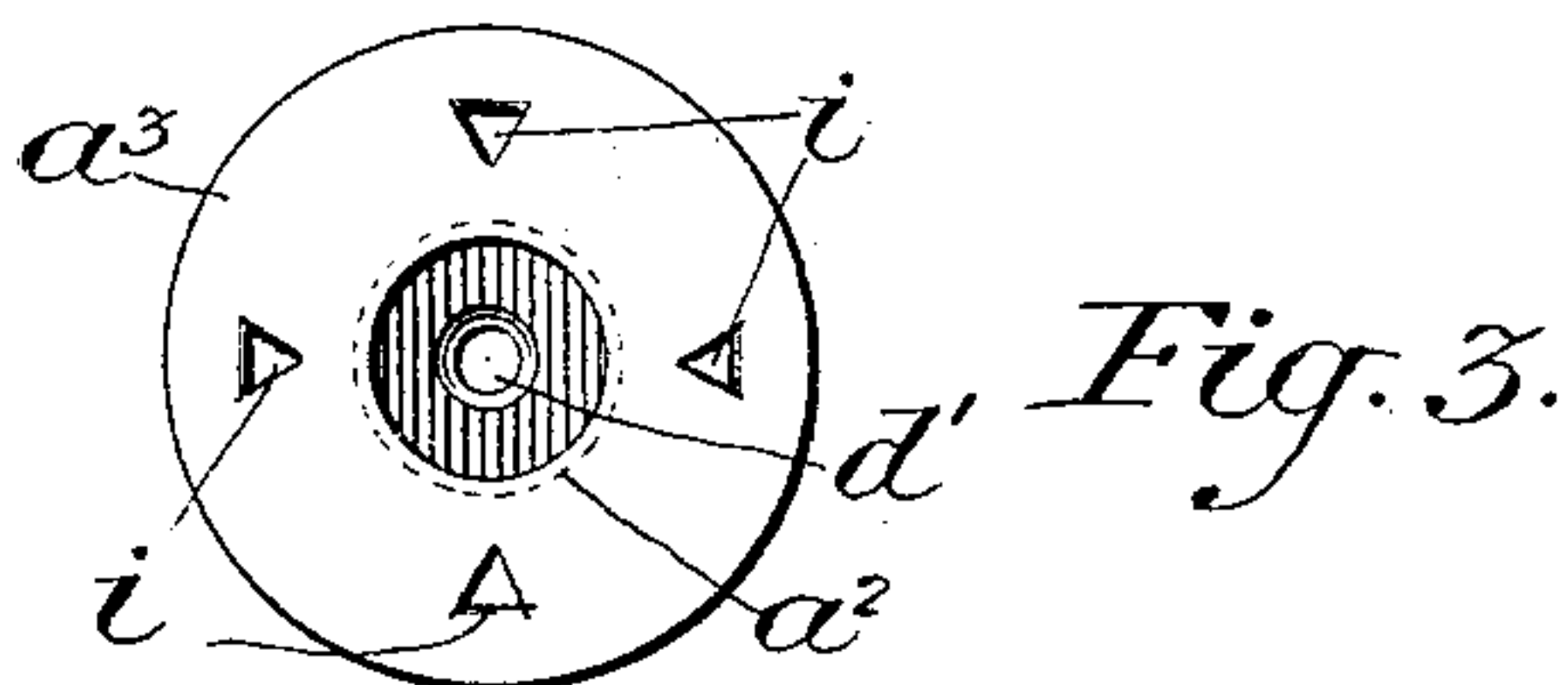


Fig. 3.

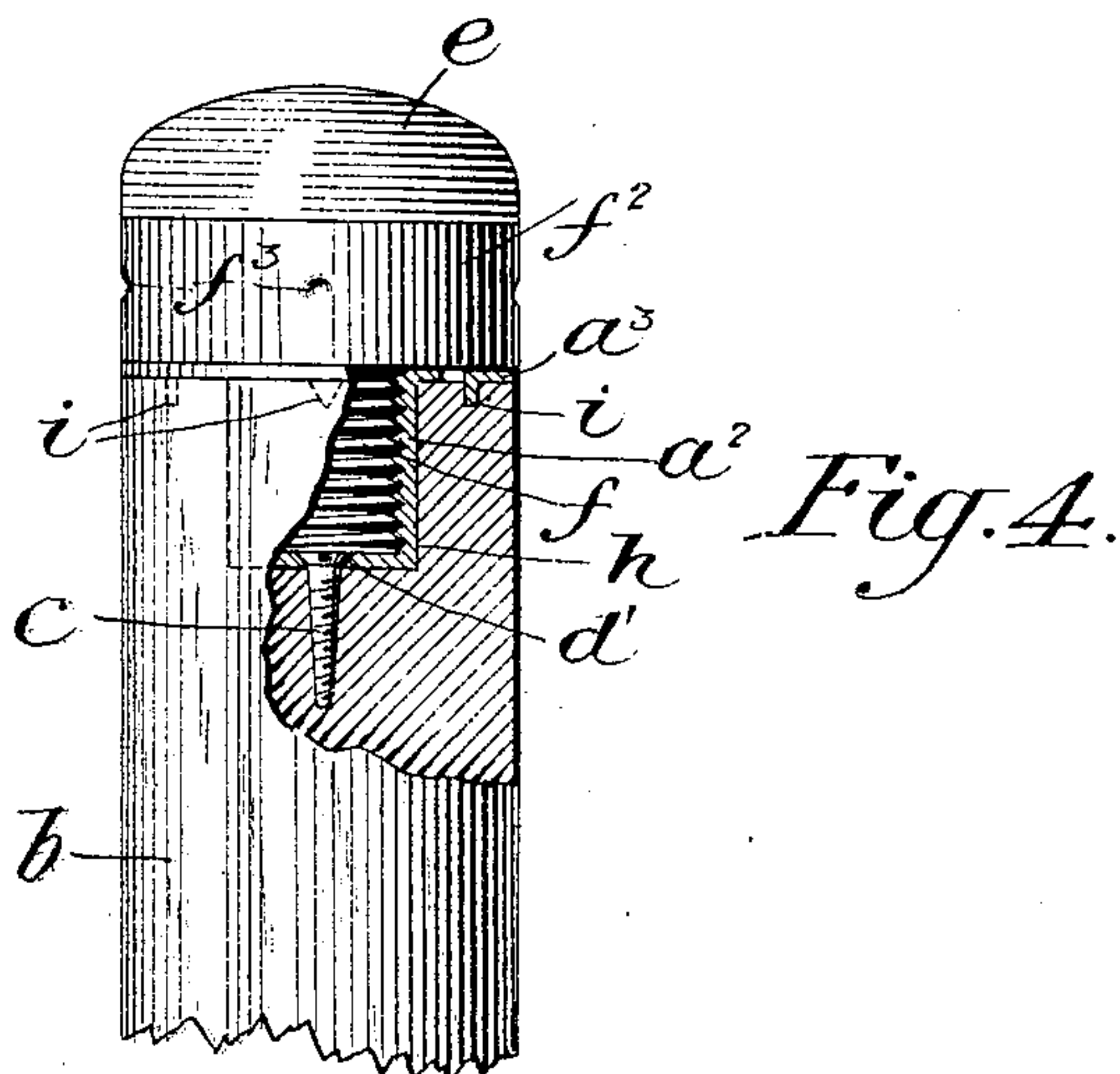


Fig. 4.

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UNITED STATES PATENT OFFICE.

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BILLIARD-CUE AND TIP THEREFOR.

SPECIFICATION forming part of Letters Patent No. 771,727, dated October 4, 1904.

Application filed June 27, 1902. Serial No. 113,480. (No model.)

To all whom it may concern:

Be it known that I, HUBERT HAES, a British subject, residing at No. 28 Bassett road, North Kensington, London, England, have invented certain Improvements in or Relating to Billiard-Cues and Tips Therefor; and I hereby declare the following to be an exact and full description of my said invention.

This invention relates to billiard-cues and tips therefor, and has for its principal object to construct these devices so as to enable the tips to be very readily and securely fixed to the cues and the newly-tipped cues to be immediately thereafter available for use. This result has not been attained by the means hitherto ordinarily employed, because the glue or cement generally used for fixing the tips to the cues takes an appreciable time to set, during which the cues cannot be used. Moreover, before a new tip can be applied to the cue any old glue or cement adhering to the latter must first be carefully removed, so that a level seating may be provided for the new tip, all of which involves a somewhat considerable expenditure of time.

According to my invention I overcome all the above-mentioned difficulties by providing the cue with a cup and the tip with a socket having a shank fitting into the said cup.

By the term "tip," as hereinafter employed, I mean a device which comprises a striking-piece consisting of only one layer of leather or other suitable material, together with its socket.

In the accompanying drawings, which illustrate, on an enlarged scale, the way of carrying this invention into effect, Figure 1 is an elevation, partly broken away, of the tip in its socket. Fig. 2 is a similar view of the cup for receiving the shank of the said socket. Fig. 3 is a plan of the said cup; and Fig. 4 is an elevation, partly broken away, showing the devices represented in Figs. 1, 2, and 3 applied to a cue, of which latter only a portion is included in the figure.

The tip *e* is formed with a slightly-reduced portion *e'*, and the male screw or shank *f*, which,

as shown in Fig. 1, is of substantially smaller diameter than the tip *e*, is fitted thereto by means of a socket *f²*, formed integrally therewith and in which the tip may be secured by one or more indentations *f³ f³*, as shown, or by any other suitable means. The cup *a²* is preferably provided with a flange *a³*, and, as shown in Fig. 4, is sunk into a recess *b*, formed in the end of the cue *b*, and secured thereto most conveniently by a central screw *c*, points *i i*, projecting from the under side of the flange *a³* and engaging in the end of the cue *b*, being provided for preventing the cup from turning about the screw *c*.

When it is required to replace the before-described tip, all that is necessary is to unscrew the old one and tightly screw the new one into its place. For these purposes pliers may be used adapted, if desired, to engage the indentations *f³ f³* in the tip-socket *f²*.

One or more spring-tongues, somewhat resembling the points *i i*, may be provided on the under side of the tip-socket *f²* in such position as to enable it or them to engage with holes or depressions formed in the flange *a³*. This would insure against the turning backward of the tip on the cue.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. The combination with a billiard-cue and a tip consisting of one layer of material, of a screw-threaded cup fixed permanently to the cue, a recess in the cue to receive the cup, a flange on the cup to bear on the end of the cue around the recess, a socket in which the tip is permanently and immovably fixed and a screw-threaded metallic shank integral with the socket adapted to enter the cup and engage with the screw-threads thereof substantially as hereinbefore described.

2. The combination with a billiard-cue and a tip consisting of one layer of material, of a screw-threaded cup fixed permanently to the cue, a recess in the cue to receive the cup, a flange on the cup to bear on the end of the cue around the recess, points in the flange

engaging the cue to prevent the cup from being rotated thereon, a socket in which the tip is permanently and immovably fixed and a screw-threaded metallic shank integral with
5 the socket adapted to enter the cup and engage with the screw-threads thereof substantially as hereinbefore described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

HUBERT HAES.

Witnesses:

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WALTER VON DEWITZ.