

(No Model.)

A. E. SPENCER & L. A. WILKINSON.

BILLIARD CUE TIP.

No. 246,042.

Patented Aug. 23, 1881.

FIG-1- FIG-2- FIG-3-

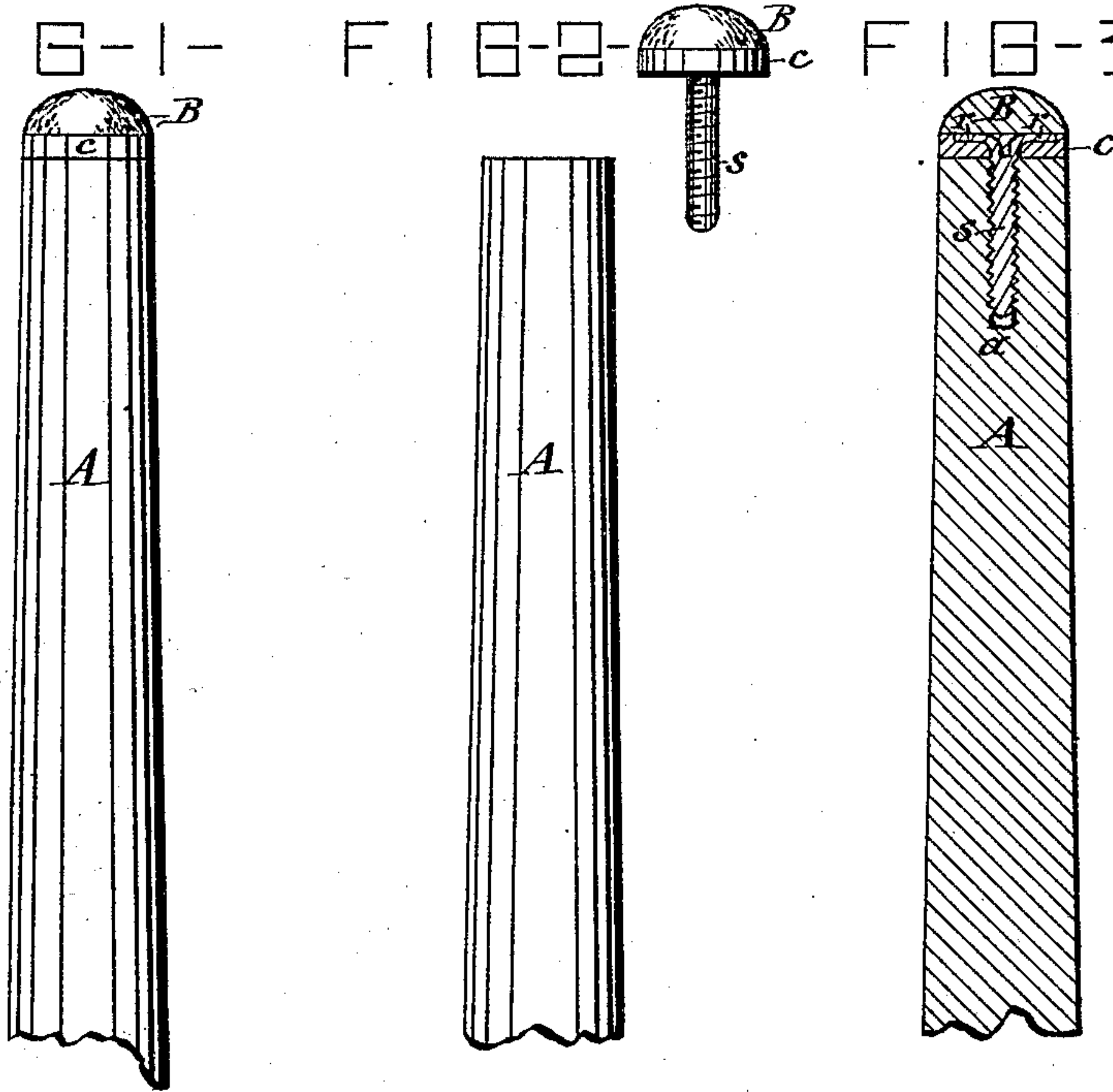
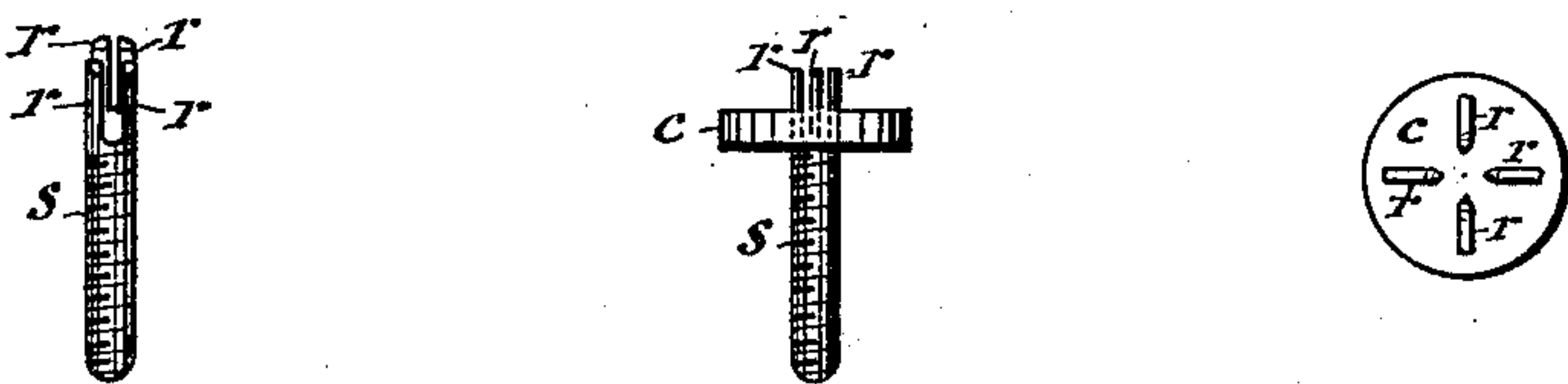


FIG-4- FIG-5- FIG-6-



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# UNITED STATES PATENT OFFICE.

ALBERT E. SPENCER AND LAFAYETTE A. WILKINSON, OF SYRACUSE, NEW YORK; SAID SPENCER ASSIGNOR TO SAID WILKINSON.

## BILLIARD-CUE TIP.

SPECIFICATION forming part of Letters Patent No. 246,042, dated August 23, 1881.

Application filed June 8, 1881. (No model.)

*To all whom it may concern:*

Be it known that we, ALBERT E. SPENCER and LAFAYETTE A. WILKINSON, both of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Billiard-Cue Tips, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

10 This invention relates to improvements in that class of cue-tip fasteners in which the tip is provided with a screw-threaded shank which enters a correspondingly screw-threaded socket in the end of the cue.

15 The invention consists in certain improved means of securing the screw-threaded shank to the tip which greatly facilitates and cheapens the construction, and affords a more secure fastening for said shank than has been attained by prior devices.

20 In the annexed drawings, Figure 1 is a side view of the tip end of a cue provided with our improvement. Fig. 2 is a side view of the same with the tip detached. Fig. 3 is a longitudinal section, showing the connection of the tip with the cue. Fig. 4 is a detail view of the attaching-shank of the tip. Fig. 5 is a detached view of the back piece of the tip, illustrating the manner of connecting thereto the screw-threaded shank; and Fig. 6 is a plan view of said back piece, showing the clinchers of the shank.

Similar letters of reference indicate corresponding parts.

35 A represents the end of a billiard-cue, which is usually provided with a leather tip, B, for receiving the concussion of the ball struck by the cue. Central in the said end of the cue we cut a screw-threaded socket, *a*, of sufficient depth to receive and properly confine a screw-threaded stud or shank, *s*, which is secured to the tip B in the following manner: The outer end of the stud *s* we slit longitudinally into prongs *r r*, and after removing the usual leather back piece or base, *c*, from the tip B proper, we force the prongs *r r* through said back piece, as shown in Fig. 5 of the draw-

ings, and clinch them upon the opposite side thereof, as best seen in Fig. 3 of the drawings, at the same time countersinking them in said back piece, so as to preserve a true and smooth face for the reception of the tip B, which is then again secured to the back piece, *c*, in the usual manner.

By the aforesaid construction we obviate the necessity of punching out of the center of the back piece, *c*, a hole for the reception of the screw-shank. The prongs *r r* of the screw-shank are readily forced through the back piece of the tip, and when distended radially and clinched upon said back piece in the manner described and shown the screw-shank is rigidly secured to the tip and effectually prevented from turning thereon, at the same time preserving a leather face in the center of the back piece, *c*, and a better surface generally for cementing or gluing it onto the tip proper.

The tip B, with its screw-threaded shank *s*, is readily applied to the cue by screwing the said shank into the socket *a* in the end of the cue, and when applied with the requisite force said tip is firmly secured in its position.

We do not claim, broadly, the employment of a screw for securing the tip to a billiard-cue, as we are aware the same is not new; but

What we do claim as our invention is—

The screw-shank *s*, having its butt-end slitted longitudinally into prongs *r r r r* and secured to the back piece, *c*, by forcing said prongs through said back piece, then bending them radially from the shank *s* and clinching them upon the upper face of the back piece, *c*, substantially as described and shown.

In testimony whereof we have hereunto signed our names and affixed our seals, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 28th day of May, 1881.

ALBERT E. SPENCER. [L. S.]  
LAFAYETTE A. WILKINSON. [L. S.]

Witnesses:

WM. C. RAYMOND.  
K. L. HEY.