

J. L. SMITH.
Billiard-Cue Tip-Fasteners.

No. 155,680.

Patented Oct. 6, 1874.

Fig: 1

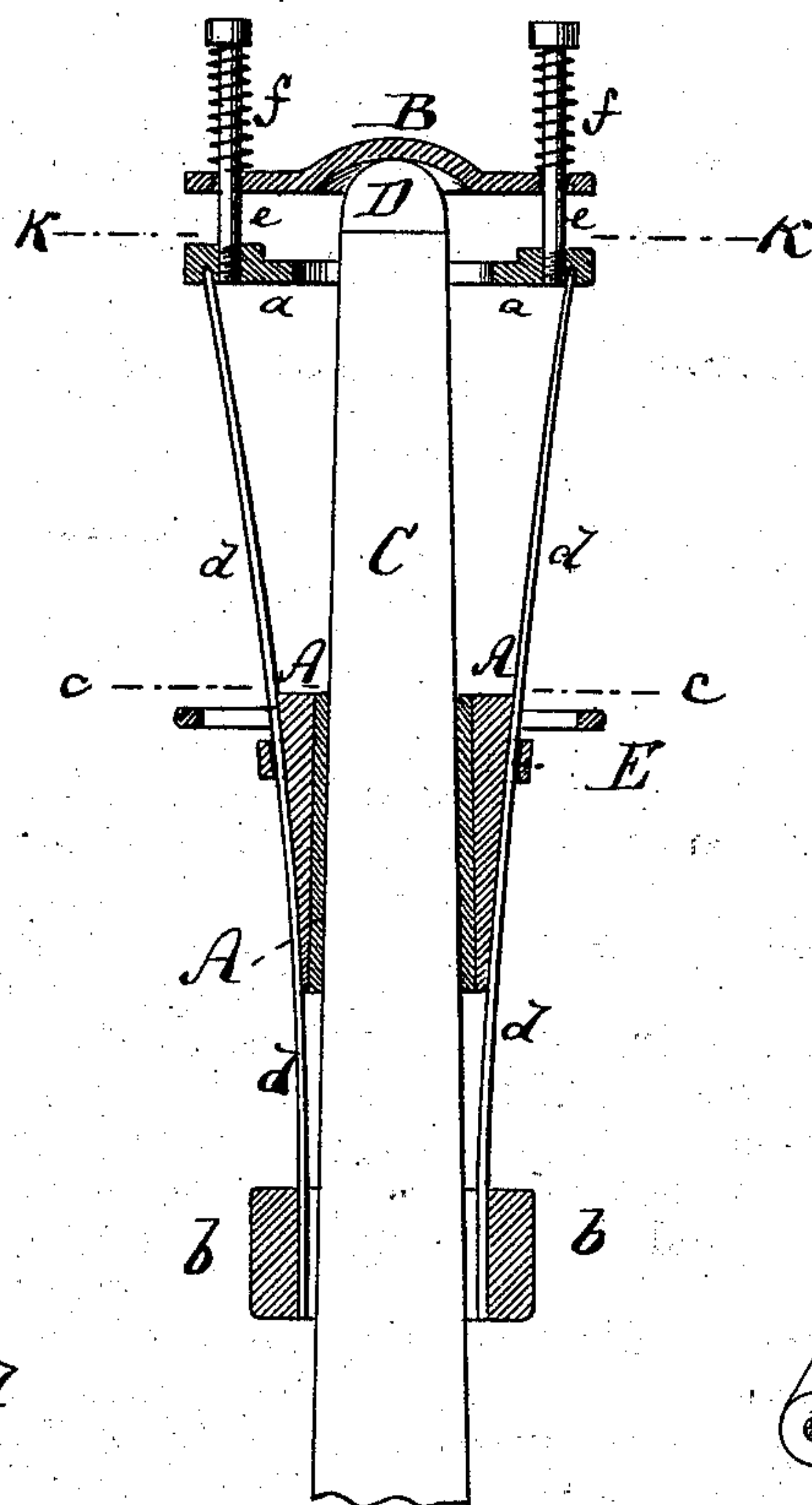


Fig: 2

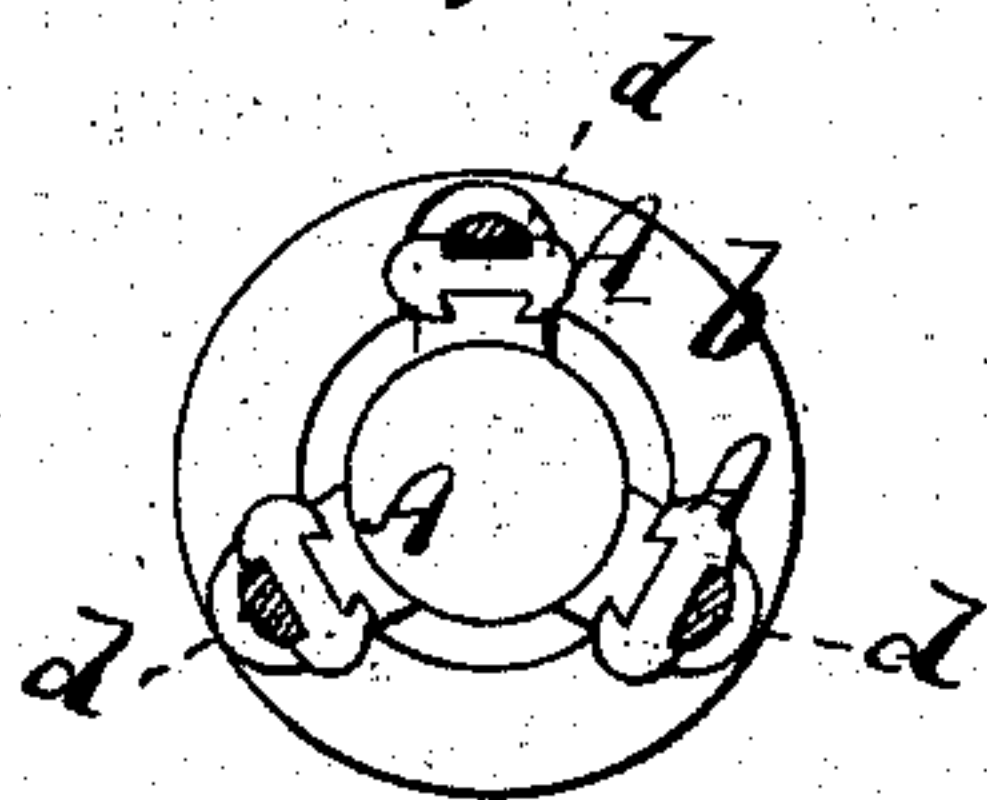


Fig: 3

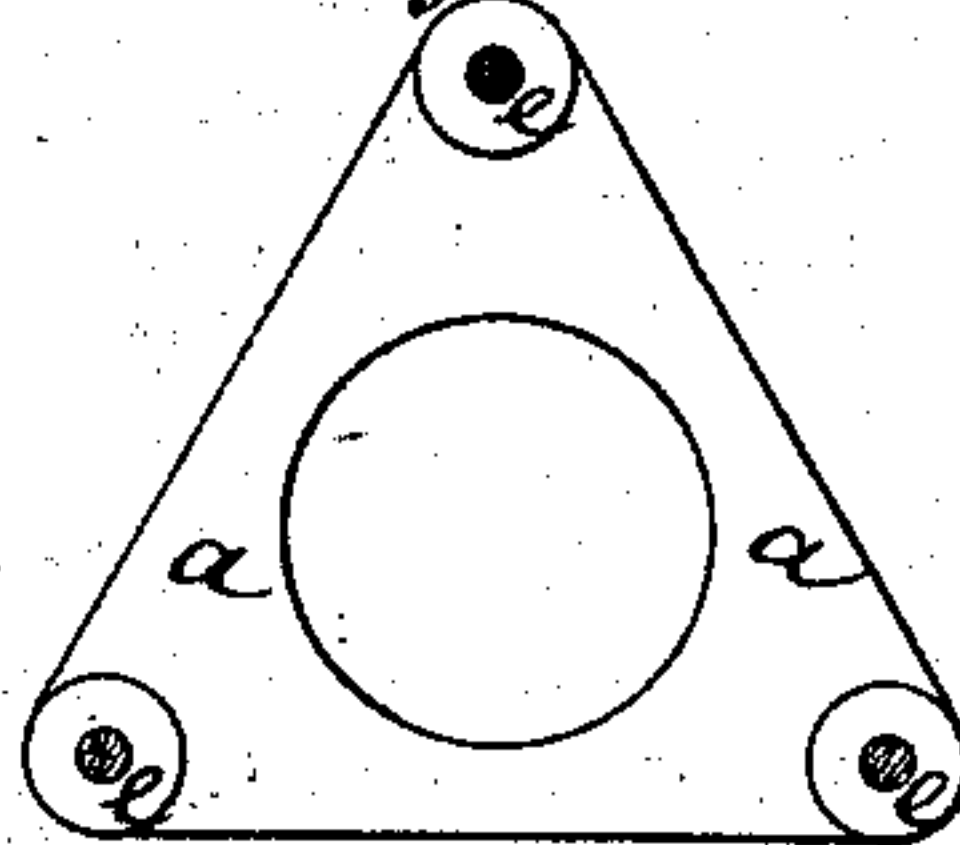
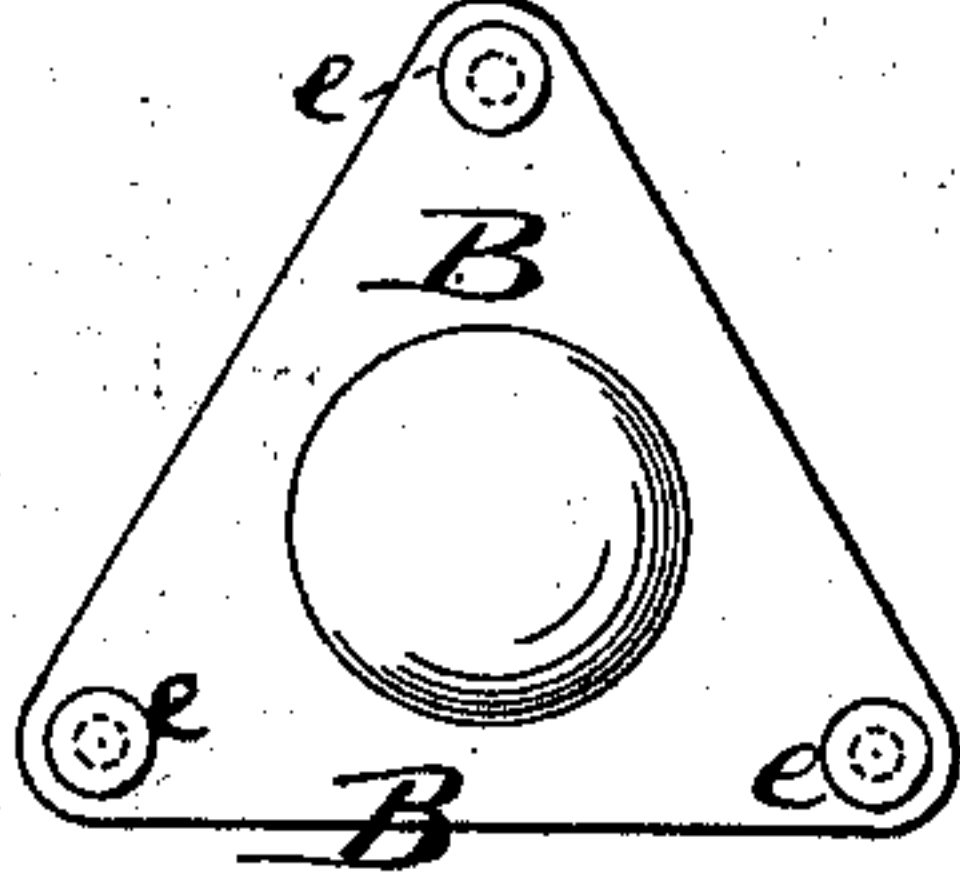


Fig: 4



Witnesses:

Thos. R. R. Hig.
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Inventor:

James L. Smith
by his attorney
A. V. Briesen

UNITED STATES PATENT OFFICE.

JAMES L. SMITH, OF BROOKLYN, ASSIGNOR TO HIMSELF AND GEORGE S. MERCER, OF NEW YORK, N. Y.

IMPROVEMENT IN BILLIARD-CUE-TIP FASTENERS.

Specification forming part of Letters Patent No. **155,680**, dated October 6, 1874; application filed June 2, 1874.

To all whom it may concern:

Be it known that I, JAMES L. SMITH, of Brooklyn, in the county of Kings and State of New York, have invented an Improved Billiard-Cue Clamp, of which the following is a specification:

Figure 1 is a longitudinal central section of my improved billiard-cue clamp; Fig. 2, a transverse section of the same on the line *c c*, Fig. 1; Fig. 3, a transverse section of the same on the line *k k*, Fig. 1; and Fig. 4, a top or end view of the same.

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

This invention relates to a new device for clamping billiard-cues while the leather tips are being applied to them, with the object of holding said tips properly against the ends of the cues, until the glue that is to hold the tips to the cues has become properly dried.

The invention consists in the new arrangement of parts, as hereinafter more fully described.

The body or frame of the clamp consists of two end plates, *a b*, which are connected together by three or more braces or rods, *d d*. These rods *d* converge toward the lower plate *b*, as is clearly shown in Fig. 1. A wedge-shaped block, *A*, preferably faced on the inner side with rubber, is loosely fitted upon each of the braces *d*, and free to slide up and down thereon. When all the blocks *A* are slid down on the rods *d*, the space between them will be smaller than it is when said blocks are farther up. Both plates *a* and *b* have central openings for the admission of the cue, as shown. *B* is the cap of the clamp, being a plate with a central recess in its lower face, and fitted above the top plate *a* to bolts

e e that project upwardly from *a*. Springs *f f*, which embrace the upper ends of the bolts, bear against the cap *B* and crowd it toward *a*. The cue *C*, when a fresh tip, *D*, has been applied to its end, is introduced from below, through the plates *b* and *a*, until the tip bears against the cap *B*, and is then farther inserted so as to raise said cap away from *a*, and compress the springs *f*. The blocks *A A* are now run down on the braces *d* until they firmly clamp and hold the cue in position, or rather until they properly secure the clamp upon the cue. In this position the parts are left until the glue has sufficiently hardened that holds the tip to the cue. While the clamp is applied, the springs *f* serve to crowd the tip tightly against the cue, and thus to insure a perfect job.

The recess in the under side of the cap *B* may be dispensed with, though I prefer to have it for centering the tip; and as to the wedge-shape of the blocks *A*, I desire it to be understood that that form is required within the braces *d*, and that the appearance of said blocks may be varied by changing their outer edge outside of the braces *d*.

The blocks *A* may be connected together by a loose ring, *E*, or cord, so that they may be raised and lowered simultaneously.

I claim as my invention—

A billiard-cue clamp provided with sliding wedges *A A*, in combination with converging braces *d d*, as set forth.

The above description of my invention signed by me this 21st day of May, 1874.

JAMES L. SMITH.

Witnesses:

A. V. BRIESEN,
GEORGE S. MERCER.