

(No Model.)

J. FENNING, Dec'd.

S. FENNING, Administratrix.

BILLIARD CUE TIP.

No. 343,235.

Patented June 8, 1886.

Fig. 1.

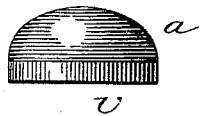


Fig. 3.

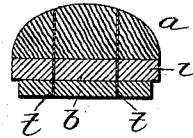


Fig. 2.

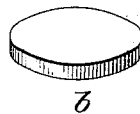


Fig. 4.

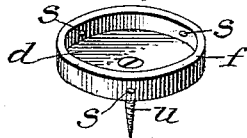
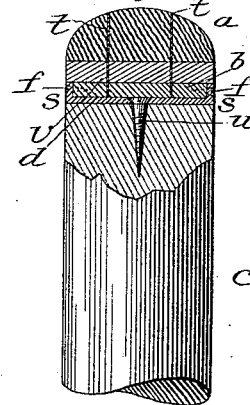


Fig. 5.



Witnesses:

J. G. Benedict
W. Aug. Lyon

Inventor:

James Fenning

UNITED STATES PATENT OFFICE.

JAMES FENNING, OF DANBURY, CONNECTICUT; SARAH FENNING ADMINIS-
TRATRIX OF SAID JAMES FENNING, DECEASED.

BILLIARD-CUE TIP.

SPECIFICATION forming part of Letters Patent No. 343,235, dated June 8, 1886.

Application filed September 2, 1885. Serial No. 176,002. (No model.)

To all whom it may concern:

Be it known that I, JAMES FENNING, of Danbury, county of Fairfield, and State of Connecticut, have invented a new and useful Improvement in Billiard-Cue Tips, of which the following is a specification.

My invention relates to a method of fastening the several parts of billiard-cue tips together, and of securing the tip to the cue by means of an attachment hereinafter described in the following specification and accompanying drawings.

Figure 1 is a billiard-cue tip, formed of two or more pieces, (marked *a v.*) Fig. 2 is a piece of leather or other suitable material, (marked *b*), forming a base to the original cue-tip, (marked *a v*, Fig. 1,) and fitted to a disk, hereinafter described, said base to be attached to the original cue-tip by means of sewing with threads, waxed or otherwise, (I prefer waxed,) said threads being used for the double purpose of uniting firmly the several pieces forming the original tip, Fig. 1, (marked *a v*), independent of glue or other adhesives, and at the same time firmly attaching the base, Fig. 2, (marked *b*), to the original tip, (marked *a v* in Fig. 1.) Fig. 3 represents the sectional parts of the original tip, (marked *a v*, Fig. 1,) with the piece forming the base, (marked *b*), with the threads riveting them, (marked *tt*.) Fig. 4 is a disk, (marked *d*), with a flange, (marked *f*), forming a receptacle for the base of the tip before described. *u* is a screw through the disk, holding the same firmly to the cue. *sss* are screws through the flange of the disk before described, holding the tip firmly to the disk. Fig. 5 is a sectional view of a combination of Figs. 1, 2, 3, 4, and 5, connected with the cue, (marked *c*), forming a complete whole.

I wish to show by contrast the superiority of my device for attaching billiard-tips to cues by means of waxed threads over all others attached by adhesives. I beg to refer to patent to Howe, No. 259,273, June 6, 1882. By ref-

erence to drawings, Fig. 2, will be found a flat piece of leather attached to a disk by means of metal points, the tip being attached to said piece of leather with glue. The glue, being affected both by dry and damp atmosphere, is liable to cleave from the cue when damp or dry weather predominates, as it will soften in a damp and crack in a dry atmosphere. The advantage of waxed threads over glue or other adhesives is, that it is not affected by wet or dry weather, and can be soaked in water or dried in an oven and remain firm under either or both conditions. As before stated, the tip is attached to a disk, and said disk is attached to the cue by a flat pin passing through a ferrule, *B*, and held in place by means of screws *F*, Fig. 1. However good it may appear in theory, it is in practice a failure, as the concussion in playing loosens the screws, and the tip, disk, and flat pin fall from the cue together. In my device the tip is held by screws passing through the flange of a disk into the piece of leather forming the base of the tip. The elasticity of the leather keeps a constant pressure on the screws, and they are not affected by the concussion of the blows in playing.

Having thus described my invention, what I claim as new is—

1. The combination of the tip *a v*, the base *b*, and the thread *t*, united in the manner and for the purpose set forth.

2. The combination of the tip *a v*, the base *b*, and the thread *t*, with the disk *d*, having a flange, *f*, constructed in the manner and for the purpose set forth.

3. The combination of the tip *a v*, base *b*, screw *u* and screws *sss*, adjusted to a billiard-cue, in the manner and form specified.

JAMES FENNING.

Witnesses:

MICHAEL J. KEATING,
BENYET W. HOUGH.