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Patented Aug. 16, 1898.

F. YOUNG & H. BUNDY.

BILLIARD CUE TIP.

(Application filed Aug. 31, 1897.)

(No Model.)

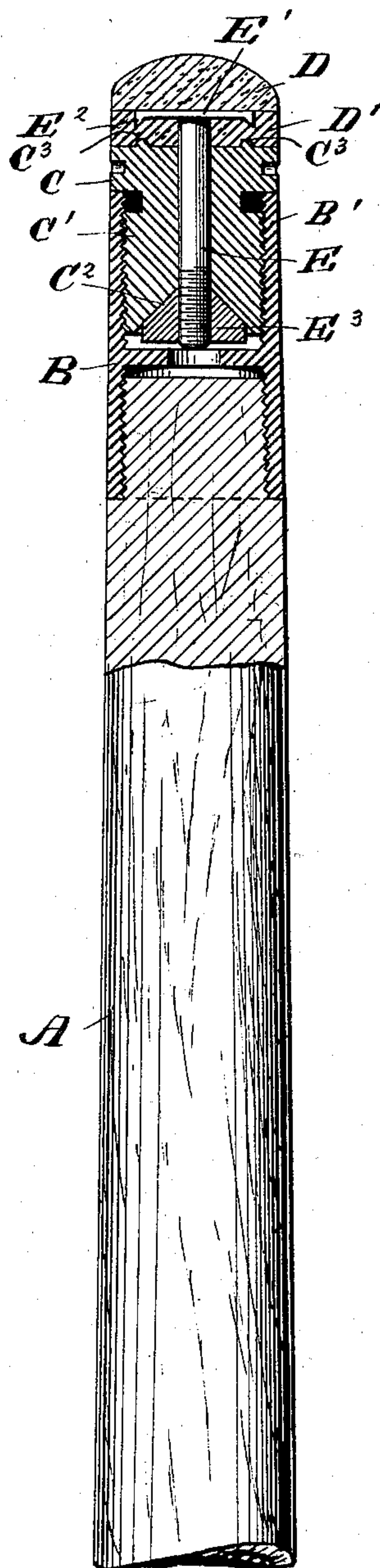


Fig. 2

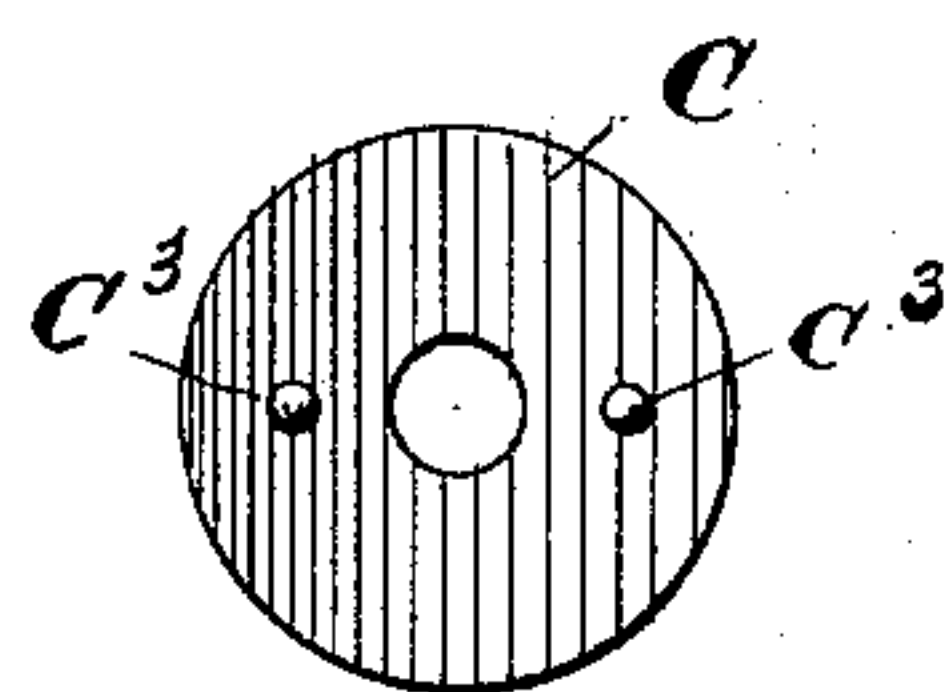
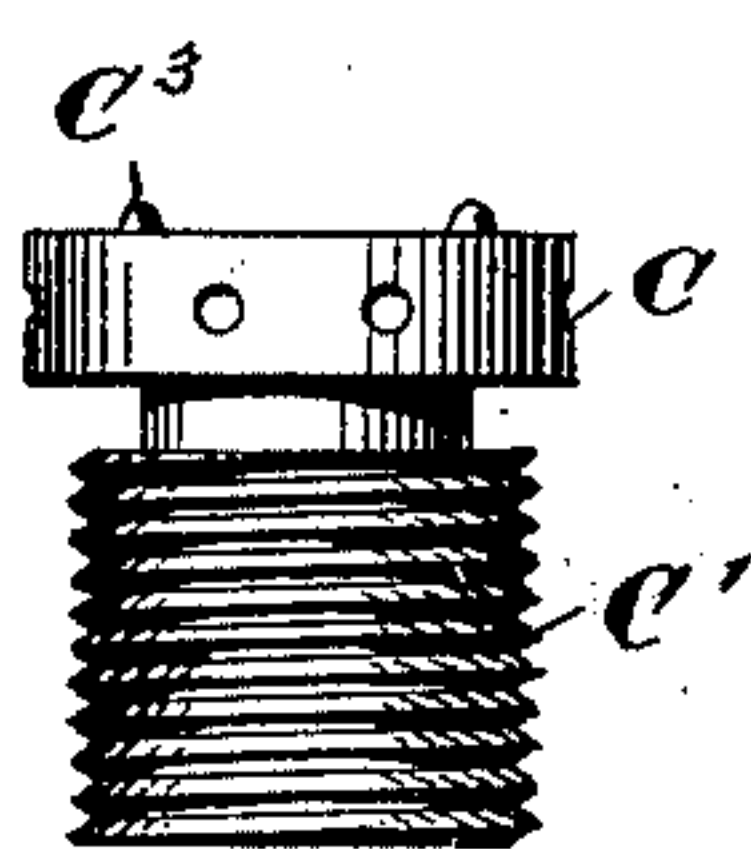


Fig. 3

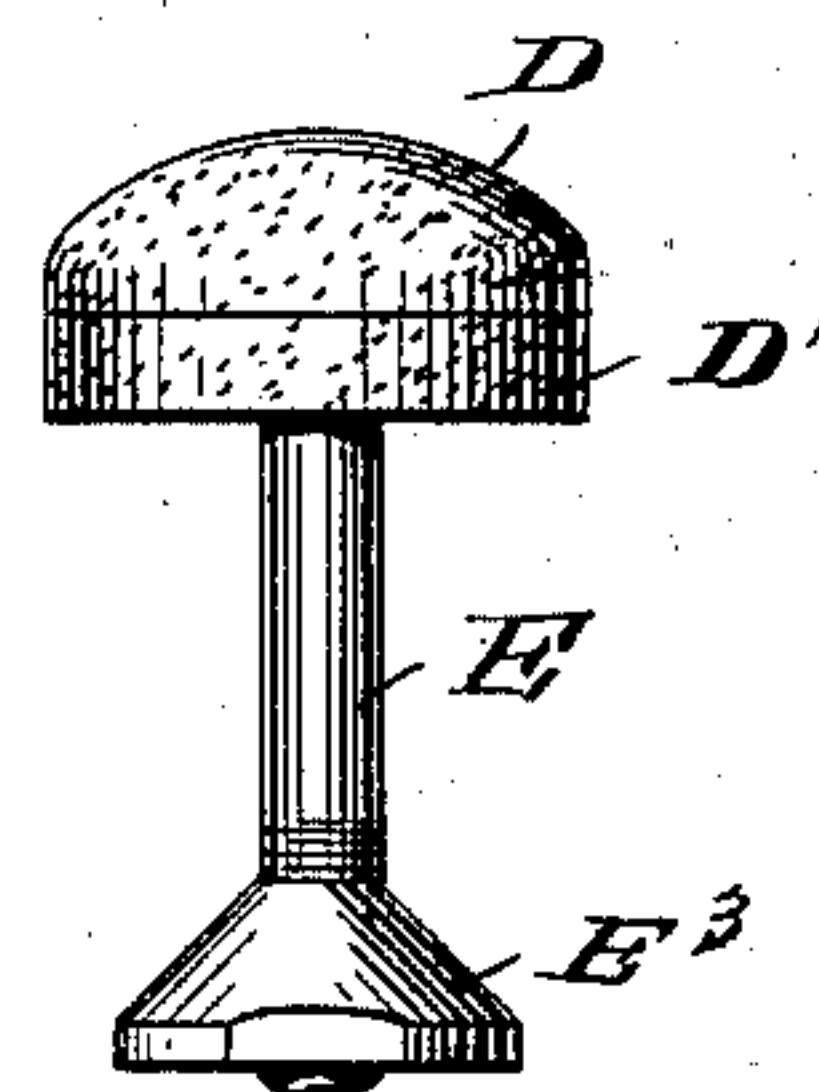


Fig. 4

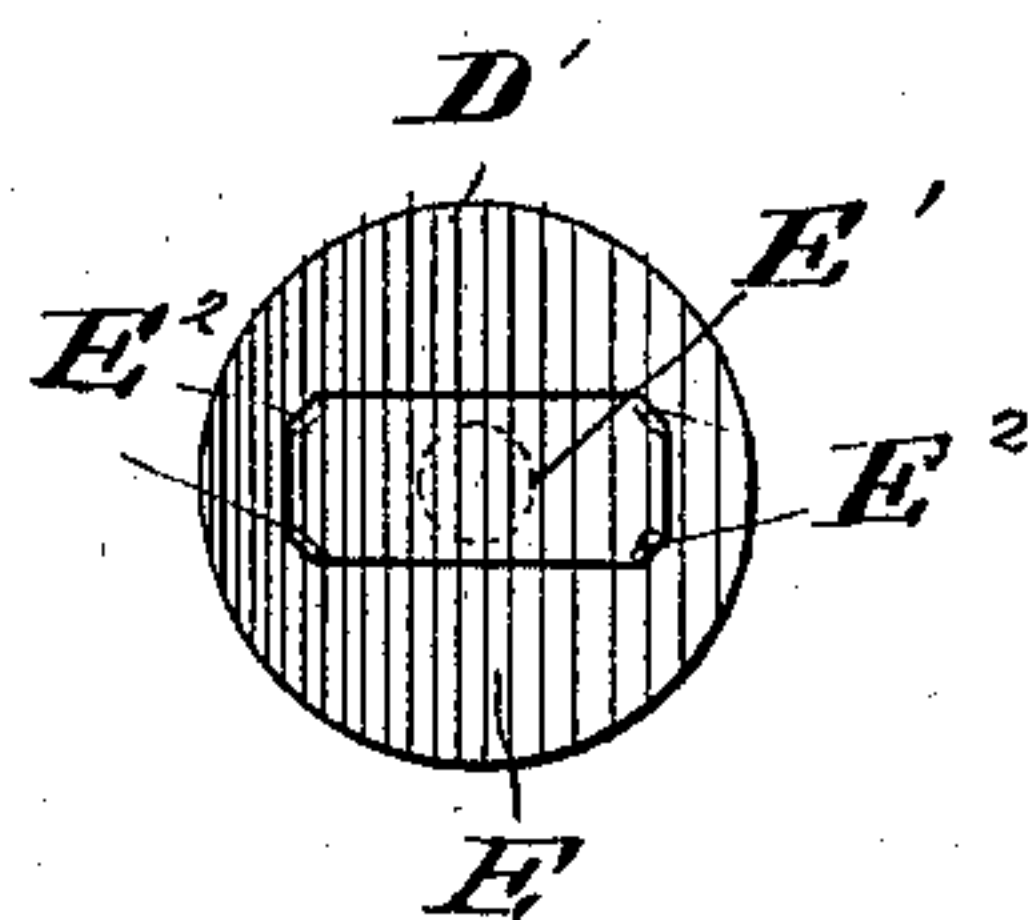


Fig. 5

WITNESSES:
John Ferguson
Rev. G. Foster

Fig. 1

INVENTORS
F. Young
H. Bundy
BY *manly*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

FRANK YOUNG AND HARRY BUNDY, OF SANTA ANA, CALIFORNIA.

BILLIARD-CUE TIP.

SPECIFICATION forming part of Letters Patent No. 609,381, dated August 16, 1898.

Application filed August 31, 1897. Serial No. 650,093. (No model.)

To all whom it may concern:

Be it known that we, FRANK YOUNG and HARRY BUNDY, both of Santa Ana, in the county of Orange and State of California, have invented certain new and useful Improvements in Billiard-Cue Tips, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved billiard-cue tip which is simple and durable in construction, easily repaired, and readily placed in position on the cue without the use of an adhesive substance.

The invention consists principally of a bolt carrying the tip and fitted into a head for the base of the tip to rest on, the said head being provided with a threaded shank for screwing into a ferrule on the cue.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side elevation of the improvement as applied. Fig. 2 is a side elevation of the head and its threaded shank. Fig. 3 is a plan view of the same. Fig. 4 is a side elevation of the bolt with the tip, and Fig. 5 is a plan view of the base of the tip with the bolt in position.

On the upper end of the stick A of a billiard-cue screws a ferrule B, formed in its upper end with a second thread B', in which screws the threaded shank C' of a head C, adapted to support the base D' of the tip D proper, the latter being glued or otherwise fastened to the said base.

A bolt E passes centrally through the base D' and is formed with a flat head E', having prongs E² on its under side to engage the material of the base D', as is plainly indicated in Figs. 1 and 5, to securely hold the head of the bolt in place on the said base D'. The head E' is preferably made flat and very thin, as is plainly shown in Figs. 1 and 5, to readily engage a depression in the top surface of the base D', so that the top of the head E' is flush with the top of the base D'.

The bolt E extends centrally through the

head C and its shank C', and on its lower end screws a conical nut E³, engaging a similarly-shaped recess C², formed on the under side of the shank C', the nut serving to securely draw the bolt E downward to press the base D' firmly in engagement with the head C. On the top of the latter are formed projections or tips C³ for engaging the under side of the base D' to prevent the latter from turning, it being understood that the said projections C³ readily embed themselves in the leather or like material of which the base D' and the tip D are made.

It will be seen that by the arrangement described the tip D, with its base D' supporting the bolt E, can be readily attached to the head C and its shank, and the latter can be conveniently screwed into the upper end of the ferrule B, so that the device is securely attached to the stick A of the billiard-cue.

It will further be seen that the base D' of the tip can be used for a good many tips in case the latter are worn out, so that all that is necessary is to glue or otherwise fasten a tip in place on the base D' to restore the usefulness of the billiard-cue. By using a conical nut E³ sufficient friction is obtained on the shank C' to prevent accidental loosening of the bolt in the head C.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. A billiard-cue tip, comprising a ferrule secured to the upper end of the billiard-cue stick, a head having a threaded shank screwing in the said ferrule, a bolt held centrally in the said head and formed with a bolt-head made flat and having prongs, and a tip-base for receiving the tip proper and carried by the said bolt, the head of which engages, with its prongs, the material of the base, substantially as shown and described.

2. A billiard-cue tip, comprising an internally-threaded ferrule adapted to be secured to a cue, a head having a threaded shank screwing into the ferrule and provided with a central longitudinal aperture, a tip, a bolt having its head secured in the tip and its shank projecting through the shank of the head, and a nut on the bolt, substantially as described.

3. A billiard-cue, comprising an internally-

threaded ferrule adapted to be secured to a cue, a head having a threaded shank screwing into the ferrule and provided with a longitudinal aperture, the inner end of the said shank being formed with a conical recess, a tip, a bolt having its head secured in the tip and its shank projecting through the shank of the head, and a conical nut on said bolt, substantially as described.

10 4. A billiard-cue tip, consisting of an internally-threaded ferrule adapted to be secured to a cue, a head provided with projections or spurs and having a threaded shank screwing

into the ferrule, the head and shank being provided with a longitudinally-extending aperture, a tip-base resting upon the head, a bolt having its head formed with spurs and resting upon the tip-base, the shank of the bolt projecting through the shank of the head, and a nut on the said bolt, substantially as described.

FRANK YOUNG.
HARRY BUNDY.

Witnesses:

G. WILTON,
EARL G. GLENN.