(No Model.)

E. CUNDEY.

BAT.

No. 364,160. Patented May 31, 1887.

Fig. 1.

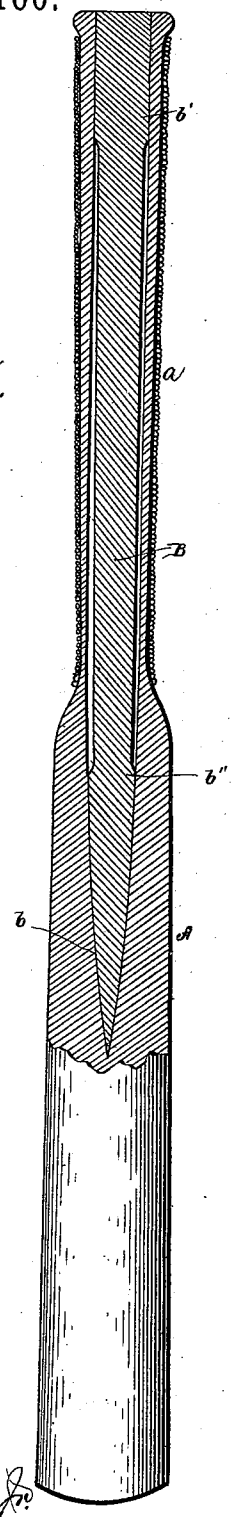
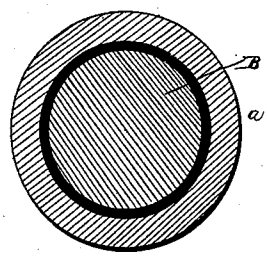


Fig. 2.



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UNITED STATES PATENT OFFICE.

ELIJAH CUNDEY, OF PHILADELPHIA, PENNSYLVANIA.

BAT.

SPECIFICATION forming part of Letters Patent No. 364,160, dated May 31, 1887.

Application filed March 15, 1887. Serial No. 230,980. (No model.)

To all whom it may concern:

Be it known that I, ELIJAH CUNDEY, a citizen of the United States of America, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Bats, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to certain new and useful improvements in base-ball bats; and it consists in the detail construction, combination, and arrangement of the parts, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of my improved bat, and Fig. 2 is a detail view thereof.

The object of this invention is to provide a bat so constructed that the weakest point thereof shall be between that portion grasped by the player and the outer thickened end designed to strike the ball in play, to prevent the jarring or stinging sensation consequent upon striking the ball, and to provide a spring-like action for the bat, while at the same time greatly strengthening the same as against all liability of breaking consequent upon removing the center of the handle-body.

In carrying out my invention to accomplish the above objects, I employ bat A, which has a narrow handle, *a*, tapering from its outer end inwardly to about the center of the bat, at which point the same is widened, as shown, and this latter width is maintained to the extreme end of the bat. It will be seen that the thinnest point of the bat is intermediate of the portion grasped by the hands of the player and the widened half, whereby great force is given to the ball in striking the same. Within the center of this bat is formed a long circular aperture, which terminates at its lower end in a taper, *b*, formed a short distance in the widened portion of the bat.

B is a core or rod, having its upper end widened, as at *b'*, and its lower end tapered, as shown, from a slightly-widened portion, *b''*, to the extreme end. This core or rod is designed to be inserted in the central aperture of the bat and its lower pointed end to fit snugly within the tapered end of said aperture, where it is additionally held by cement or glue applied to said end prior to its insertion in said aperture.

By reference to Fig. 1 it will be seen that when the core or rod is inserted, as above indicated, the widened portions *b' b''* and the tapered end will alone be in contact with the sides of the circular aperture, whereby a continuous space or chamber, C, is provided between the core or rod and said sides of the aperture. This chamber will give to the handle a spring that will, in striking the ball, be a means of driving the same a greater distance than could otherwise be accomplished, and at the same time prevent stinging of the hands.

Another important advantage of my invention is that a bat thus constructed does not require the material of which made to be entirely perfect, provided the widened lower half of the bat be of perfect material, as the handle end, even though the material be imperfect, is strengthened by insertion of the core or rod, as above detailed. In bats as heretofore constructed it is well known that the same must be made of perfect material throughout their entire length, and such perfect material it is not always easy to obtain.

I have shown the handle of the bat wrapped with twine; but this is not necessary, unless it is desired to have a more secure means of retaining hold of the bat.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. As an improved article of manufacture, the bat comprising the tapered handle having an aperture formed therein terminating in a taper in the lower thickened portion of the bat, and the core or rod inserted in said aperture, having thickened or widened ends, the lower one thereof fitting within the taper in the widened end of the bat at a point below the end of the tapered handle, substantially as shown, and for the purpose stated.

2. A base-ball bat having an aperture wherein is inserted a core or rod having limited contact with the sides of said aperture, as shown and described, whereby a space or chamber is provided between said core or rod and the inner surface of the bat-handle, as stated.

In testimony whereof I affix my signature in presence of two witnesses.

ELIJAH CUNDEY.

Witnesses:

JOSEPH BOUCHER,

THOS. B. ROBINSON.