

No. 692,812.

Patented Feb. 11, 1902.

A. G. ANDERSON.

CAP NUT.

(Application filed July 23, 1900.)

(No Model.)

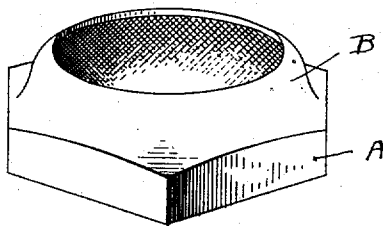


Fig. 1.

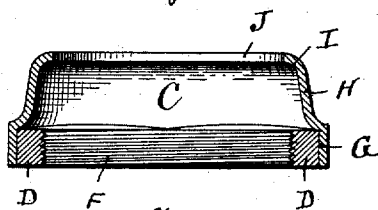


Fig. 2.

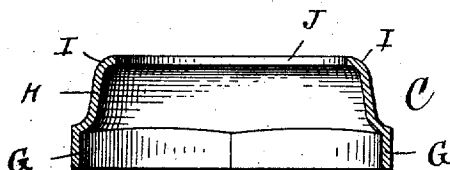


Fig. 3.

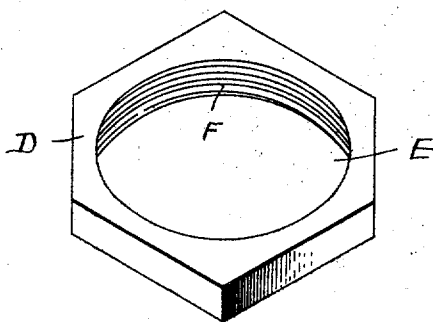


Fig. 4.

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UNITED STATES PATENT OFFICE.

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CAP-NUT.

SPECIFICATION forming part of Letters Patent No. 692,812, dated February 11, 1902.

Application filed July 23, 1900. Serial No. 24,521. (No model.)

To all whom it may concern:

Be it known that I, ANDERS G. ANDERSON, a citizen of the United States, and a resident of Worcester, in the county of Worcester and Commonwealth of Massachusetts, have invented a new and useful Improvement in Cap-Nuts, of which the following is a specification, accompanied by drawings forming a part of the same, in which—

10 Figure 1 represents a perspective view of a cap-nut adapted for the steering-heads of bicycles and embodying my invention. Fig. 2 is a central vertical sectional view. Fig. 3 is a central vertical sectional view of the sheet-metal case or shell adapted to inclose the polygonal screw-threaded rim. Fig. 4 is a perspective view of the polygonal screw-threaded rim detached from the sheet-metal shell or case.

15 Similar reference-letters refer to similar parts in the different figures.

My invention relates to a cap-nut having a polygonal and a non-polygonal section, and especially to the cap-nut applied to the steering-heads of bicycles, which has heretofore been made of a solid piece of steel having an internal screw-thread with a portion of its exterior turned to form a cylindrical bead or finish to the outside of the nut; and my invention consists in the novel construction of the nut from sheet-metal blanks by which the desired shape or contour of the outside is preserved and the cost considerably lessened by reducing the weight of the material and the amount of labor required.

20 In Fig. 1 I have represented in perspective view a cap-nut adapted to be used on the steering-heads of bicycles which resembles in its outer shape cap-nuts in common use provided with a polygonal section A, adapted to receive a wrench and having the upper portion of its surface turned to form a cylindrical bead B, thereby giving a desirable finish to the exterior of the nut. By the method now practiced of producing nuts of this class a solid annular piece of steel is required provided with a central hole to receive a screw-thread and a polygonal periphery adapted to receive a wrench, and the cylindrical bead or finish B is produced by turning away the surplus stock, or in case the nut is properly shaped by drop-forging the outside requires to be finished preparatory to its being plated.

The cap-nut forming the subject of my present invention is formed entirely from sheet metal and consists of two pieces, an outer shell or case C, (shown in central vertical sectional view in Fig. 3,) shaped from a sheet-metal blank into the form desired for the outside of the nut by means of suitable punches and dies, and a polygonal plate D, provided with a central hole E and of sufficient thickness to receive an internal screw-thread F. In the case of the bicycle-cap shown in the drawings the shell or case C is provided with a polygonal base G, adapted to inclose the sides of the plate D and be securely attached thereto by compression of the shell against the sides of the plate. The upper portion of the shell or case C above the base G is cylindrical, with tapering sides, as represented at H, Fig. 3, with a rounded corner I, and the top or end of the nut when designed for the steering-head of a bicycle is provided with a central hole J.

75 The plate D, with its hole E, is stamped from a separate sheet-metal blank and an internal screw-thread is cut therein to form the screw-threaded portion of the nut, which is pressed into the shell C, and the polygonal sides of the shell are compressed against the edges of the plate, thereby securely uniting the two portions of the nut together.

85 The shape of the shell C can be varied as desired and used for many purposes other than the steering-heads of bicycles for which cap-nuts are employed, and the hole J may be omitted. As the edge of the plate D is polygonal and the base or polygonal section of the shell closely fits the same, there is no strain upon the shell to loosen it from the screw-threaded portion in the operation of applying the nut.

95 What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of a shell C having a polygonal section A, and a circular section H, of a plate D provided with a screw-threaded hole E, said plate being held in the polygonal section of said shell, substantially as described.

Dated this 20th day of July, 1900.

ANDERS G. ANDERSON.

Witnesses:

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