

No. 769,780.

PATENTED SEPT. 13, 1904.

J. D. STIRCKLER.
FASTENER.

APPLICATION FILED FEB. 9, 1901.

NO MODEL.

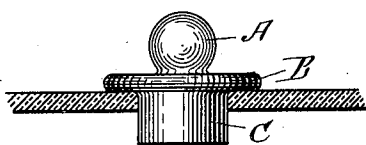


Fig. 1.

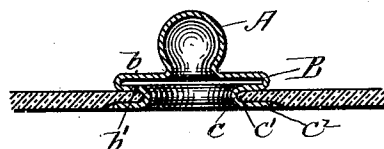


Fig. 2.

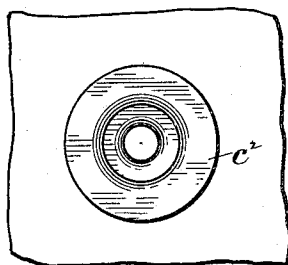


Fig. 3.

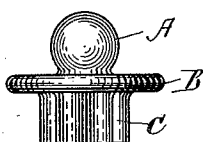


Fig. 4.

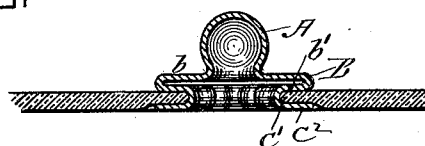


Fig. 5.

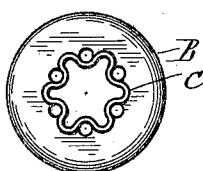


Fig. 6.

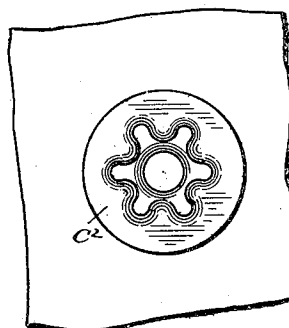


Fig. 7.

WITNESSES:
Saul Lippman
M. D. Newman.

INVENTOR:
John D. Stirckler
by his atty.
Clark & Raymond

UNITED STATES PATENT OFFICE.

JOHN D. STIRCKLER, OF BOSTON, MASSACHUSETTS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO BALL & SOCKET MANUFACTURING COMPANY, OF CHESHIRE, CONNECTICUT, A CORPORATION OF CONNECTICUT.

FASTENER.

SPECIFICATION forming part of Letters Patent No. 769,780, dated September 13, 1904.

Application filed February 9, 1901. Serial No. 46,650. (No model.)

To all whom it may concern:

Be it known that I, JOHN D. STIRCKLER, a citizen of the United States, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Fasteners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to an improvement in the ball members of ball-and-socket fasteners and will be described in connection with the drawings forming a part of this specification, wherein—

Figure 1 is a view in elevation of an unset ball member. Fig. 2 is a view in vertical section of material and set ball member. Fig. 3 is a view in inverted plan of the material and set member. Fig. 4 is a view in elevation of an unset member representing a modified form of the member. Fig. 5 represents it in vertical section set to material. Fig. 6 is a view in inverted plan of the member of Fig. 4. Fig. 7 is a view in inverted plan of material and set member of Fig. 5.

Referring to the drawings, A represents the ball or section of the member which engages the socket member.

B is a preformed outer finishing-flange comprising the outer annular plate *b*, from which the ball rises, and the concentric inner plate *b'*, which plates are integrally connected at their outer edge and which inner plate has extending from it and integral with it the barrel C of a length sufficient to form a neck *c* to be contained in the hole *c'* of the material to which the member is secured and to also form in the act of setting a continuous inner

attaching-flange *c*². In Figs. 1, 2, and 3 the barrel C is represented as cylindrical. In Figs. 4 to 7, inclusive, it is represented as provided with vertical corrugations. In the act of setting the portion of the tubular extension which is below the inner surface of the material is worked or folded outward to form the inner fastening-flange.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A hollow ball member of a fastener made from a single piece of material and having a hollow ball, a neck, an outer preformed flange of greater diameter than the greatest diameter of the ball, an integral fastening-eyelet and a continuous inner flat fastening-flange formed in the act of attaching the member to the fabric, said ball being supported directly on said neck, said neck being formed directly on the inner edge of said outer flange and said eyelet being formed on the farther side of said outer flange from said neck and said ball, whereby the fabric is secured between the inner and outer flanges, as described.

2. In a hollow-ball-fastener piece, made from a single piece of material, a hollow ball integrally mounted upon a flange, said flange extending outward from said point of union with the ball beyond the greatest circumference of said ball, then folding underneath and returning inward and having integral with its inner end a hollow corrugated cylindrical portion adapted upon riveting to form an eyelet and retaining-flange for the whole.

JOHN D. STIRCKLER.

In presence of—

M. D. NEWMAN,
P. K. DUMARSY.