

No. 769,779.

PATENTED SEPT. 13, 1904.

J. D. STIRCKLER.
SOCKET MEMBER.

APPLICATION FILED FEB. 9, 1901.

NO MODEL.

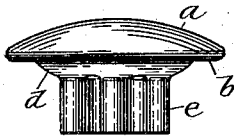


Fig. 1.

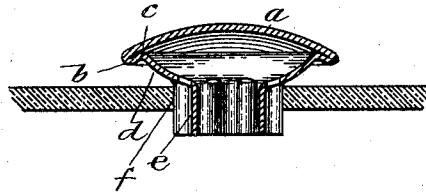


Fig. 2.

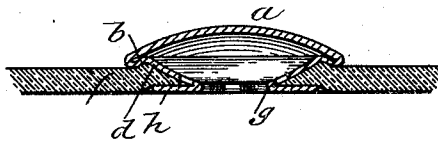


Fig. 3.

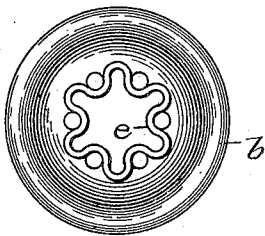


Fig. 4.

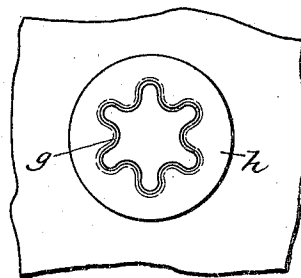


Fig. 5.

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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.

SOCKET MEMBER.

SPECIFICATION forming part of Letters Patent No. 769,779, dated September 13, 1904.

Application filed February 9, 1901. Serial No. 46,649. (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 Socket Members, 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 the herein-described one-piece socket member of a ball-and-socket fastener.

Referring to the drawings, Figure 1 is a view in elevation of an unset socket member having the features of my invention. Fig. 2 is a view in longitudinal section of the same in material, but not set thereto. Fig. 3 represents in section a set socket member and material. Fig. 4 is a view in plan, inverted, of the unset member. Fig. 5 is a view in plan, inverted, of the set member and material of Fig. 3.

Referring to the drawings, *a* represents the top of the member generally known as the "cap" and which is formed to its ultimate shape before it is set.

b is the flange, which bears against one surface of the material and is preformed and may be raised, so to speak, by means of the depression *c* within it or between it and the conical wall *d*, which extends from the flange to the corrugated barrel *e*.

It will be understood that the barrel, wall, flange, and top are integral.

In the act of setting the socket member the barrel is placed in a hole *f* in the material, and upon the application of pressure to the member and the material the conical wall is forced into the surface of the material, the

preformed flange *c* against it. The corrugated barrel is turned outward to form a pronounced socket-entrance *g* and a continuous fastening-flange *h*, the socket-entrance and the flange being formed in the act of setting the member.

The corrugations in the barrel give what may be termed a "fullness" of metal to the barrel—that is, they supply ample metal to enable the end of the barrel to be upset and formed into a smooth under flange for the socket member, so that the mouth of the socket will present a clean and smooth surface for the reception of the ball member.

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

1. A fastener having a corrugated, cylindrical barrel adapted to be passed through the material to which the fastener is to be attached, the corrugations in said barrel being of such depth that a sufficient fullness of metal will be obtained whereby the end of the barrel may be upset to form a flange having a smooth bearing-surface, a continuous edge and of sufficient size to hold the fastener to the material.

2. A socket member of a ball-and-socket fastener having a preformed top, a preformed outer flange, a conical wall, and an inner flange and socket-entrance formed by upsetting the end of a corrugated barrel in the act of setting it to the material, which inner flange has a smooth bearing-surface, a continuous outer edge and which is of sufficient size to hold the member to the material.

JOHN D. STIRCKLER.

In presence of—

M. D. NEWMAN,
P. K. DUMARESY.