No. 799,275. PATENTED SEPT. 12, 1905.

C. S. STEVENS.

HINGE.

APPLICATION FILED NOV. 28, 1904.

Fig. 1.

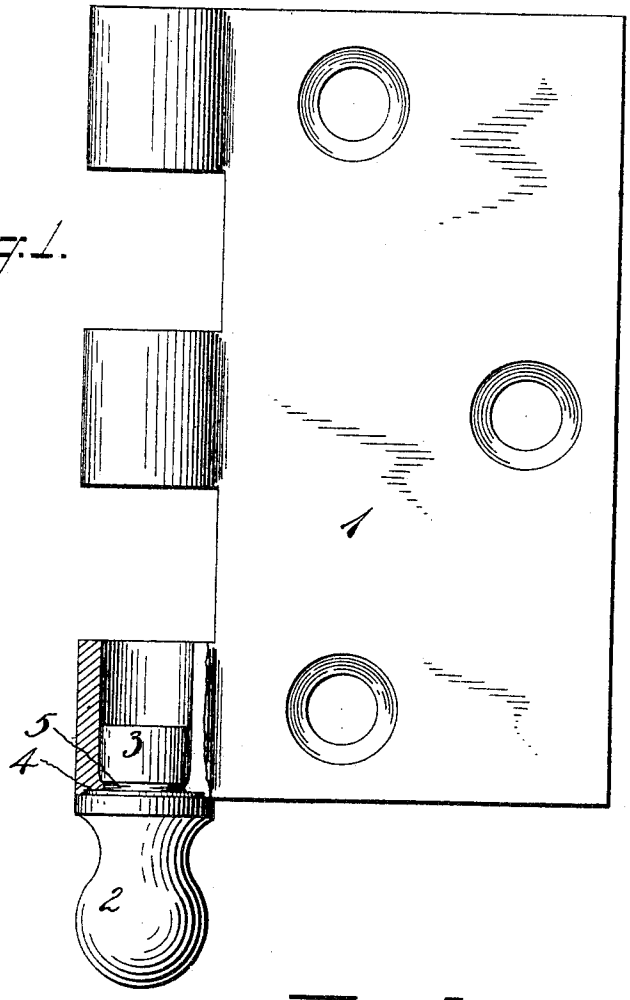


Fig. 2.

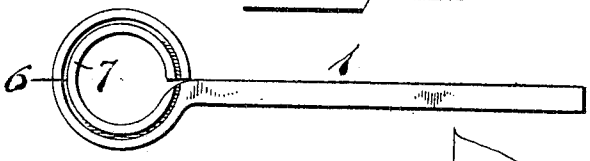
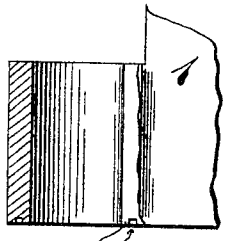


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

CLAYTON S. STEVENS, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE STANLEY WORKS, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

HINGE.

No. 799,275. Specification of Letters Patent. Patented Sept. 12, 1905.

Application filed November 28, 1904. Serial No. 234,484.

To all whom it may concern:

Be it known that I, CLAYTON S. STEVENS, a citizen of the United States, residing at New Britain, in the county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Hinges, &c., of which the following is a full, clear, and exact description.

My invention relates in the main to hinges.

The object of my invention is to provide simple, effective, and inexpensive means for securing ornamental tips thereto.

In the drawings, Figure 1 is a view of a single hinge-leaf, one of the knuckles being shown in section, illustrating the tip in elevation. Fig. 2 is a view of the lower end of the hinge-leaf of Fig. 1 before the tip is applied. Fig. 3 is a view of the lower knuckle, partly in section and partly broken away and before the tip is applied.

1 is a hinge-leaf.

2 is an ornamental tip. 3 is a shank projecting from the base of said tip.

4 is an annular shoulder at the inner end of the base of the tip member and of less diameter than the diameter of the hinge-knuckle.

5 is an annular groove extending around the shank 3 and close to the shoulder 4.

6 is an annular groove in the outer end of the hinge-knuckle to which the tip is to be applied. This annular groove 6 forms a weakened annular wall 7, which when the parts are assembled will be engaged by the shoulder 4 of the tip and flattened down in such manner that the metal thereof will be displaced and projected into the groove 5 in the shank 3 of the tip. By this means the tip is cheaply, quickly, and permanently anchored in place.

In assembling the shoulder 4 displaces and forces the metal of the wall 7 into the groove 5. When the parts are assembled, the shoulder 4 will extend slightly into the end of the knuckle, so that the base of the tip will lie snugly against the outer end of said knuckle and present a neat finished appearance.

While my invention relates in the main to hinges, it is obvious that it is not necessarily confined thereto, but may be applied to other devices in which it is desired to secure a piece in a socket by means of a blind or invisible fastening. The knuckle of the hinge-leaf is substantially a socket, while the tip shown and described is an example of a piece adapted to be secured therein. These two parts coöperate in such a manner that they are when assembled firmly and securely held together by an invisible fastening. To that end, therefore, it is not my intention to limit this invention to use merely with hinges or like devices.

What I claim is—

1. In combination, a hinge-leaf having a knuckle, a tip having a shank projecting into said knuckle, said shank having an annular groove, a portion of the metal of said knuckle being displaced and extending into said groove.

2. In combination, a hinge-leaf having a knuckle, a tip having a shank projecting from the base thereof, and provided with a recess or groove therein, and a shoulder at the inner end of the base of said tip of less diameter than said knuckle, a portion of the metal of the knuckle projecting into said recess when said parts are assembled substantially as described.

3. In combination, a hinge having knuckles and an annular groove in the outer end of the end knuckle, a tip constructed to be combined therewith, said tip having a grooved shank and a shouldered base, a portion of the metal contained within the annular groove projecting into the groove in the shank when the parts are assembled.

4. In combination, a socket, a part constructed to be secured therein, said part having a shank provided with a recess and adapted to fit into said socket, a portion of the metal of said socket adjacent the shank extending into said recess whereby said parts are interlocked when assembled, substantially as described.

Signed at New Britain, Connecticut, this 25th day of November, 1904.

CLAYTON S. STEVENS.

Witnesses:

ANNE S. BEMIS,

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