No. 629,598. Patented July 25, 1899.

W. H. PERKINS.

BEDSTEAD BALL.

(Application filed Mar. 9, 1899.)

(No Model.)

Fig. 1

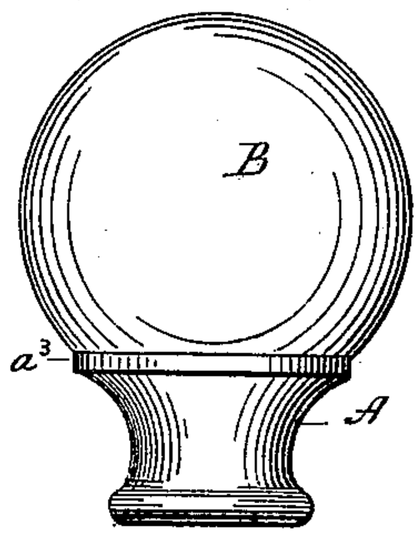


Fig. 2

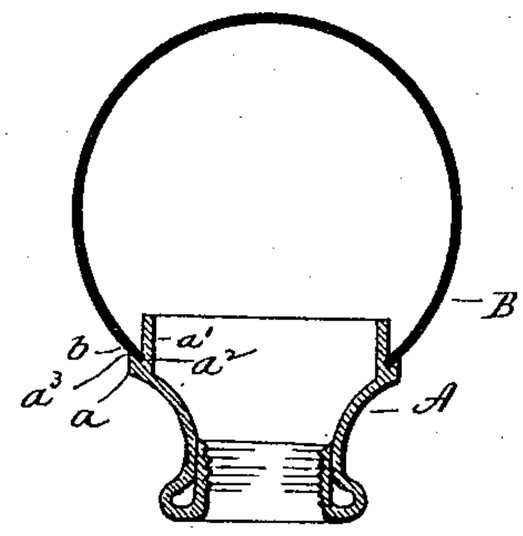


Fig. 3

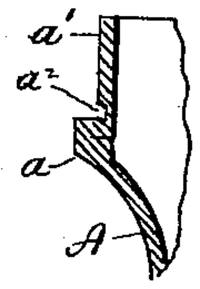
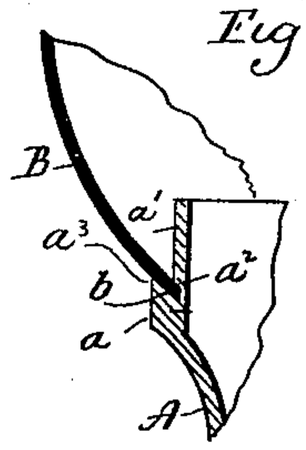


Fig. 4



Witnesses.
J. H. Shumway
C. R. Paige

Walter H. Perkins -
Inventor.
By attys Seymour & Earle

UNITED STATES PATENT OFFICE.

WALTER H. PERKINS, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE WATERBURY MANUFACTURING COMPANY, OF SAME PLACE.

BEDSTEAD-BALL.

SPECIFICATION forming part of Letters Patent No. 629,598, dated July 25, 1899.

Application filed May 9, 1899. Serial No. 708,361. (No model.)

To all whom it may concern:

Be it known that I, WALTER H. PERKINS, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Improvement in Bedstead-Balls; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in elevation of a bedstead-ball constructed in accordance with my invention; Fig. 2, a view thereof in central section; Fig. 3, a detached enlarged broken sectional view of the upper end of the base; Fig. 4, a corresponding view showing the joint finally formed between the base and the knob after the edge of the knob has been entered into the locking-recess of the base and the shoulder of the base has been upset to form a retaining-lip.

My invention relates to an improvement in sheet-metal bedstead-balls, the object being to produce without the use of solder a cheap and strong bedstead-ball of superior appearance.

With these ends in view my invention consists in a bedstead-ball having certain details of construction, as will be hereinafter described, and pointed out in the claim.

In carrying out my invention as herein shown I make the upper portion of the sheet-metal base A with a horizontal annular shoulder a and with an annular vertical abutment-flange a' and form an inclined annular locking-recess a^2 at the convergence of the said shoulder and abutment-flange. As shown, the shoulder is produced by folding the metal of the blank from which it is formed upon itself. The pitch of the said recess a^2 corresponds to the pitch of the edge b of the knob or pommel B, which is also formed of sheet metal and which has in its lower face an opening large enough to receive the flange a' of the base A. After the said flange has been inserted into the said opening, through which it extends into the interior of the knob, the edge b of the knob is crowded into the recess a^2, after which the outer corner of the shoulder a of the base is upset by spinning or otherwise, so as to form a retaining-lip a^3, as clearly shown in Fig. 4, whereby the knob is firmly united without the aid of solder to the base A, the abutment-flange a' preventing the edge of the thin sheet-metal knob from being crushed inward during this spinning operation and forming, as it were, an anvil therefor.

I am aware that it is old to form the knob and base of a bedstead-ball independently of each other and attach them together without the use of solder. I do not therefore claim that construction broadly; but,

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

In a sheet-metal bedstead-ball, the combination with a sheet-metal knob having a circular opening formed in its lower face, of a sheet-metal base having an annular shoulder, an annular vertical abutment-flange and an inclined annular locking-recess extending downward and inward from the inner edge of the said shoulder, and adapted to receive the edge of the knob around the said opening, through which the said abutment-flange passes into the interior of the knob, the outer edge of the shoulder being upset, after the edge of the knob has been entered into the said locking-recess, to form a retaining-lip for completing the union between the knob and the base.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WALTER H. PERKINS.

Witnesses:
JNO. S. NEAGLE,
T. W. WALSH.