

W. P. SENG.
METAL CAP FOR BEDPOSTS.
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997,420.

Patented July 11, 1911.

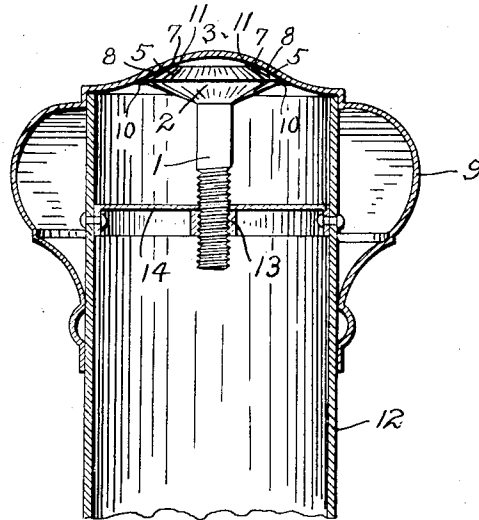


Fig. 1.

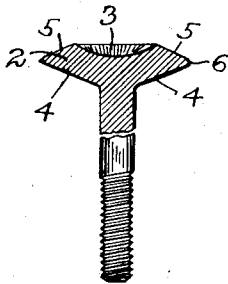


Fig. 3.

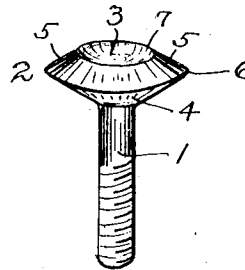


Fig. 2.

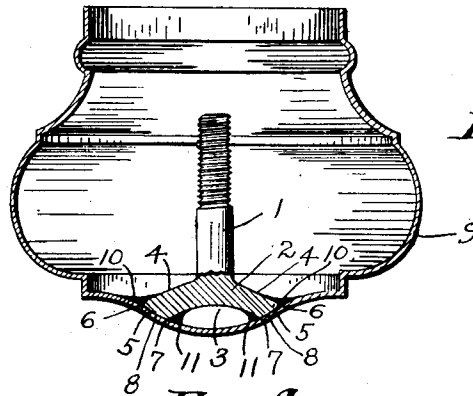


Fig. 4.

Witnesses;

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METAL CAP FOR BEDPOSTS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WENDELIN P. SENG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Metal Caps for Bedposts, of which the following is a specification.

The invention relates to means for fixing a bolt in the metal cap of a bed post, for securing the same on the post; and the object of the improvement is to so shape and finish the head of the bolt that it can be readily and securely fixed in the cap without the use of supplemental appliances or attachments. This object is attained by coning or convexing the outer and inner surfaces of the head of the bolt to a common edge, and by forming a central concave or conical recess in the outer side, thus shaping an inclined zone around the recess adapted to fit neatly in contact with the inner surface of the bed post cap; and by coating, as by dipping, the head of the bolt with a metallic cement as a solder of lead and tin; whereby the zone of contact thus formed has two edges to which the solder, when heated, will run and form a fillet of the solder.

A preferred embodiment of the invention, thus set forth in general terms, is illustrated in the accompanying drawings, forming part hereof, in which—

Figure 1 is a sectional view showing the bolt fixed in the cap and screwed into the bed post. Fig. 2, a detached perspective view of the bolt; Fig. 3, a detached elevation of the same, showing the head in section; Fig. 4, an inverted sectional view of the cap, showing the method of fixing the bolt therein.

Similar numerals refer to similar parts throughout the drawings.

The bolt is made of the threaded shank 1 and the head 2, which head is coned or convexed on its outer and inner sides to a common peripheral edge, with the central concave or convex recess 3 in its outer side, thus forming the inclined surface 4 around the shank on its inner side and the inclined contact zone 5 around the recess on its outer side, with the external annular edge 6 at the periphery of the head and the internal annular edge 7 at the rim of the central recess. The head of the bolt thus shaped is then dipped into a metallic cement, as for in-

stance a molten solder of tin and lead, so that a coating of the solder will adhere to the head of the bolt; and the bolt thus made is ready for being fixed in the cap of the bed post, it being understood that the bolt heads are made in suitable sizes and proportions, and that the beveled contact zone is radially inclined or curved to fit neatly against the corresponding portion 8 of the inner surface of the bed post cap 9 to which the bolt is applied.

To fix the bolt in the cap, the cap is inverted as shown in Fig. 4, and the bolt, having its head coated with solder, is inserted in the inverted cap, head downward, with the inclined zone 5 in contact with the corresponding portion 8 of the inner surface of the cap, and with the shank of the bolt in the axial line thereof, as shown in the same figure. Heat is then applied to the under side of the inverted cap below the head of the bolt, to a sufficient extent to melt the solder thereon, whereupon the thin film of the solder which coats the inclined contact zone will adhere to the contiguous surface of the cap, and, more particularly, the solder which is located on the inclined surface 4 forming the inner side of the head will run downward and outward and form a fillet as 10 around the peripheral edge 6 of the contact zone, and the solder within the recess 3 in the outer side of the head of the bolt will likewise run downward and outward and form a fillet 11 around the interior edge 7 of the contact zone; and when the heat is removed the solder will harden in this relation, thus securely fixing the bolt in the cap. The cap 9, with the bolt fixed therein, is then adapted to be secured on the top of the metal bed post 12 by merely screwing the shank of the bolt into a suitable socket 13 provided as in the partition 14 in the bed post.

It will be understood that the joint is much stronger where a body of solder can take hold of an edge in the form of a fillet therealong than by merely an intervening thin film between two contiguous surfaces; and that the peculiar shape of the bolt set forth therein provides two edges, one on each side of the contact zone of the bolt head, to which a substantial portion of the solder with which the bolt head has been coated will run and form a fillet, thus more securely joining the bolt to the cap than could be done without employing the peculiar

iar shape of bolt head herein described;
and it will be understood that the bolt, thus
shaped and coated with solder, constitutes
a new article of manufacture which can be
5 supplied to makers of beds and is adapted
to be fixed in the metal cap of bed posts by a
mere appliance of heat and without any
supplementary appliances or attachments.

I claim:

10 A bolt for a bed post cap having a head

convexed on the outer and inner sides with a
common peripheral edge, and having a cen-
tral recess in the outer side forming a con-
tact zone between the rim of the recess and
the peripheral edge, with a coating of solder 15
on the head.

WENDELIN P. SENG.

Witnesses:

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