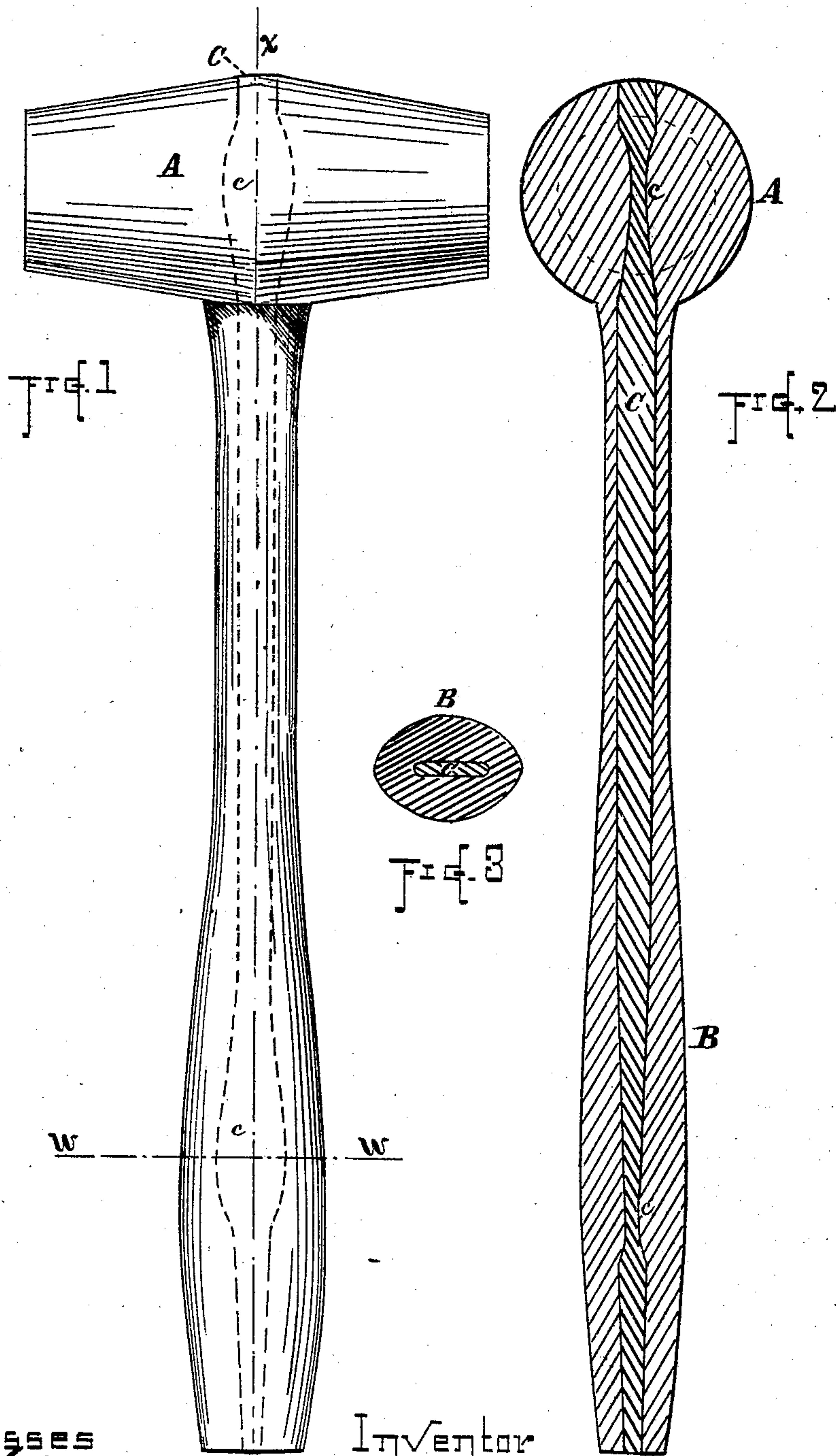


J. C. COBURN.  
Soft-Metal Hammers.

No. 146,989.

Patented Feb. 3, 1874.



Witnesses  
Chas. H. Burleigh  
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# UNITED STATES PATENT OFFICE.

JEHIEL C. COBURN, OF WORCESTER, MASSACHUSETTS.

## IMPROVEMENT IN SOFT-METAL HAMMERS.

Specification forming part of Letters Patent No. **146,989**, dated February 3, 1874; application filed December 31, 1873.

*To all whom it may concern:*

Be it known that I, JEHIEL C. COBURN, of the city and county of Worcester and State of Massachusetts, have invented a certain new and useful improvement, viz., a Soft-Metal Hammer; and I hereby declare the following to be a full, clear, and exact description of my invention, sufficient to enable other skilled artisans to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents a side view of a soft-metal hammer made in accordance with my invention. Fig. 2 represents a central longitudinal section of the same at line *x x*, Fig. 1; and Fig. 3 represents a transverse section at line *w w*, Fig. 1.

This invention relates to an improved manner of preparing babbitt-metal and similar soft metal for market; and consists in casting the metal into the form of a mallet or hammer, with the handle and head entire in a single piece, the handle being re-enforced or strengthened by a rod of steel or iron through its center, as hereinafter described.

In the drawing, A denotes the head, and B the handle, both of which are cast in a single piece, and at the same time, in a mold of proper form, a bar or rod, C, of iron or steel, being first placed in the mold in such position that it will form a central core to the handle B, as shown, extending from the front of the head to the rear end of the handle. Portions of the bar may be flattened, as indicated at *c c*, to prevent the bar from being drawn out or becoming loose when the hammer is put to se-

vere use; also, when cooling, the metal contracts and hugs closely around the bar, so that said bar is very firmly bedded and secured in place. The bar C renders the handle B very stiff and strong, and prevents it from bending or breaking at its junction with the head A.

The metal put up in these hammers is sold in place of the ordinary ingots or pigs, and, when the hammers have become battered or broken, can, as pigs, be melted up for other uses. The cost of the metal when put up in this manner is not necessarily greater than when sold in ordinary-shaped pigs, so that the shops can be furnished with good soft-metal hammers at a very little or no extra expense over the cost of their metal when furnished in the ordinary form. It will thus be seen that, without detracting in the least from the value of the pig metal, it is made additionally useful at no appreciable additional expense.

By making the handle and head in a single piece, the cost of a wood handle, which would otherwise be needed, is saved, while the weight of metal as a pig is greater than with simply a head.

Having described my invention, what I claim therein as new, and desire to secure by Letters Patent, as an improved article of manufacture, is—

A soft-metal pig formed as a mallet or hammer, the head and handle being cast in one piece, and re-enforced or strengthened by the rod C, substantially as herein set forth.

JEHIEL C. COBURN.

Witnesses:

CHAS. H. BURLEIGH,  
GEO. J. MOWRY.