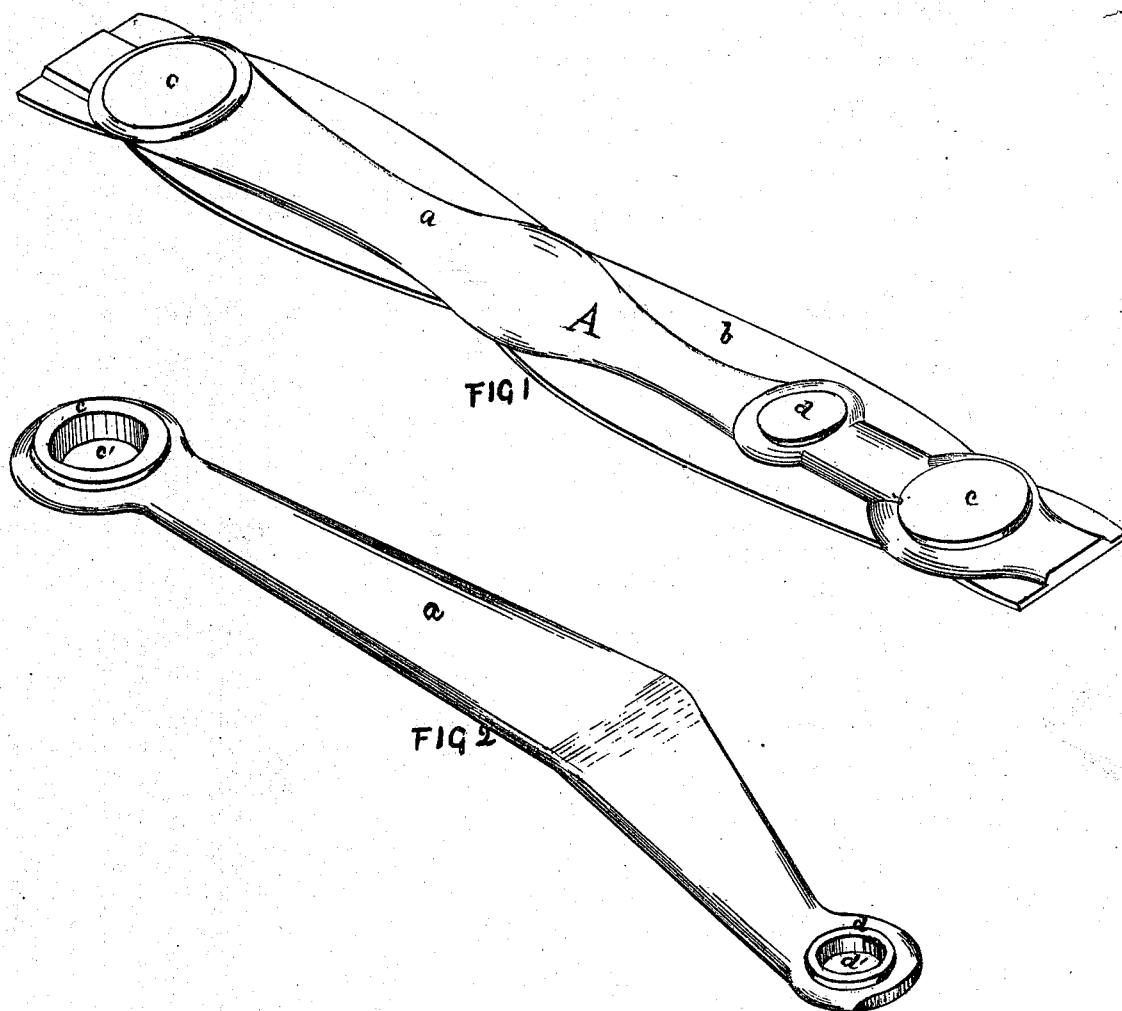


W. J. Lewis,

Forming Hammer Straps.

No. 107,931.

Patented Oct. 4, 1870



Witnesses:

R. C. Wrenshall

Thos. B. Kern

Inventor:

William J. Lewis,
by Bakewell & Christy,
his Attys.

United States Patent Office.

WILLIAM J. LEWIS, OF PITTSBURG, PENNSYLVANIA.

Letters Patent No. 107,931, dated October 4, 1870.

IMPROVEMENT IN BLANKS FOR HAMMER-STRAPS FOR WAGONS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM J. LEWIS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Hammer-strap Blanks; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a perspective view of my improved strap-blank, and

Figure 2 is a like view of the hammer-strap complete.

Hammer-straps for wagon and carriage double-trees and single-trees have been heretofore forged from flat bar-iron, in which mode of manufacture considerable labor is requisite to give them an ornamental appearance. By my improvement, I roll the blanks, in continuous lengths, from flat bar-iron, through rolls so grooved as to bring the body of the bar to the form required for the strap, with raised washer-heads at the ends of each blank, through which to punch the bolt and hammer-holes.

To enable others skilled in the art to make and use my invention, I will describe its construction.

The blanks A are rolled in continuous bars from flat bar-iron, in rolls having an arrangement of grooves, such as will form the body, *a*, of the blank of any desired varying width and thickness, with rounded edges and flat or ornamental face.

The excess of metal in the bar is caused to exude at the sides of the blank, as at *b*.

At or near each end of each blank, I roll a washer-head, *c d*. I then trim off the fins *b*, punch hammer and bolt holes, *e f*, through the washer-heads *c d*, and bend the blank, by dies or otherwise, to the form shown in fig. 2, when it is ready for use.

What I claim as my invention, and desire to secure by Letters Patent, is—

A hammer-strap blank, rolled ready for finishing and punching, of the form substantially as described, and shown in fig. 1.

In testimony whereof, I, the said WILLIAM J. LEWIS, have hereunto set my hand.

WM. J. LEWIS.

Witnesses:

JOHN GLENN,

THOS. B. KERR.