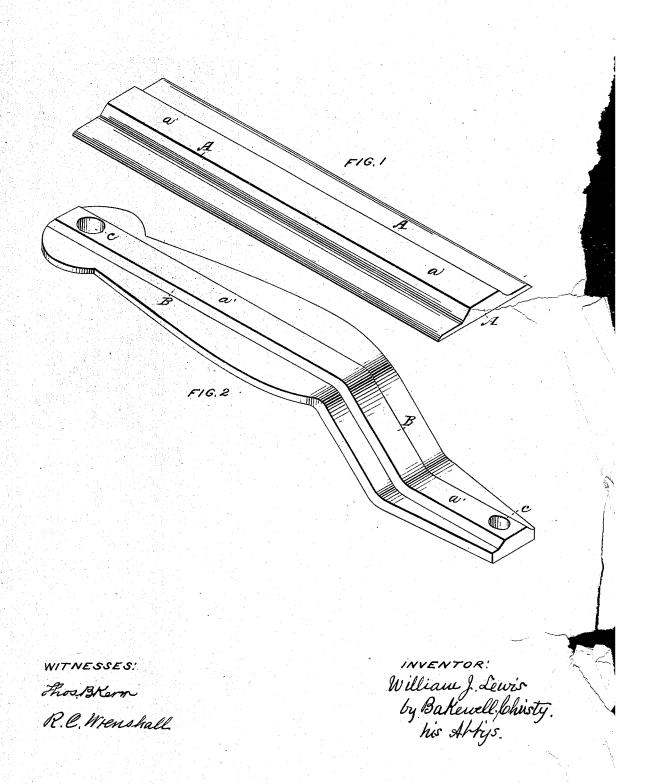
W. J. LEWIS.

Carriage Iron.

No. 107,929.

Patented Oct. 4, 1870.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

WILLIAM J. LEWIS, OF PITTSBURG, PENNSYLVANIA.

Letters Patent No. 107,929, dated October 4, 1870.

IMPROVEMENT IN HAMMER-STRAPS.

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; 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 the rolled plate or bar from which my improved hammer-strap is made, and

Figure 2 is a like view of the finished strap. Hammer-straps for holding in place the double-trees or single-trees of wagons, carriages, &c., have heretofore commonly been made from flat bar-iron of uniform thickness. By my improvement, I produce from rolled ribbed iron, a rolled ribbed hammer-strap, of improved form, and at a much less price than they can be made for by forging from a flat bar.

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

The bar A is rolled in grooved cylindrical rolls, to the form substantially as shown, that is, with a rib, a, on its upper face, or, what is mechanically the same, with a body comparatively thick along the middle and

thinning down each way therefrom to or toward each

Such a bar I cut up into blanks B, of suitable lengths, punch through the rib, in one end, a bolt or staple-hole, c, and in the other end a hole, c', for the

The thin edges of the blank are trimmed at intervals, so as to give any desired form or configuration to the strap. The rib or thickened body a gives it the required strength, and also prevents the too rapid wear of the hammer and bolt on the sides of the holes c c' next the ends.

After the blanks are trimmed and punched, they are bent to the form required, as illustrated in fig. 2, either between dies or on the anvil.

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

A rolled ribbed hammer strap, made substantially as described.

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

WM. J. LEWIS.

Witnesses:

JOHN GLENN, THOS. B. KERR.