I ewis v. Oliver. Sr., Strap Ball.

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WILLIAM J. LEWIS AND HENRY W. OLIVER, JR., OF PITTSBURG, PENNSYL-VANIA.

Letters Patent No. 82,725, dated October 6, 1868.

IMPROVEMENT IN STRAP-BOLTS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, William J. Lewis and Henry W. Oliver, Jr., of the city of Pittsburg, in the county of Allegheny, and State of Pennsylvania, have invented a new and useful Improvement in the Manufacture of Iron for Strap-Bolts; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon.

The nature of our invention consists in producing a new article of manufacture, to wit, rolling bars of metal so as to constitute a series of blanks for strap-bolts of the form hereinafter described.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construc-

In the accompanying drawings, which form part of our specification-

Figure 1 represents a top view of a section of a bar of iron, of our improved manufacture.

Figure 2 is a side view of the same.

Figure 3 is a transverse section of the same, when cut through at line 1 of figs. 1 and 2.

Figure 4 is a transverse section of the bar, when cut through at lines 2 of figs. 1 and 2.

Figure 5 is a transverse section of the bar, when cut through at lines 3 of figs. 1 and 2.

We form the bars by means of rolls, one of which is provided with a groove or grooves, and recesses which correspond in form and size to the form and size desired for the strap-bolts. Having one of the rolls thus provided with a groove or grooves and recesses, we take a round bar of iron, as it comes from the ordinary rolls for forming "rounds," and while it is in its heated condition, we pass it between the rolls provided with a groove or grooves and recesses which corresponds to the form desired for the strap-bolts, and thereby give to the bar the form represented in figs. 1 and 2.

In constructing strap-bolts, the bars are cut in suitable lengths, which cutting must depend on the judgment and desire of the mechanic for the length of the screw on the lower end of the strap-bolt, and depth of the wagon-bed must be the guide for the lengths for cutting off the iron for the strap-bolt. The part marked A should, as a general rule, be cut or divided at the line marked 1. This part is provided, in the ordinary way, with screw-threads and screw-nut. The next point for cutting or dividing off the bar is in part marked C. The dividing-line in this part will depend entirely upon the depth of the wagon-bed, or other purpose to which it may be applied. The part marked B is made in the form represented, for the purpose of obtaining strength in that part of the strap-bolt against which the greatest force or strain is brought to bear, which is always near the bottom of the wagon-bed. Experience has demonstrated the fact that the strap-bolt is broken off more frequently in the part marked B, than in any other part of the strap-bolt. The rib e, on part B, and the general form of this part, as represented in the accompanying drawings, experience has proved to be the most desirable form for strength and neatness of finish.

The parts marked B and C are provided with screw or rivet-holes at such points as suit the taste and judgment of the meclanic.

The advantage of rolling iron out into bars of the form herein described and represented will be very apparent to all who manufacture strap-bolts for wagon-beds. It saves the labor and expense of forging as now practised. It makes a smooth and uniform strap-bolt, giving to the bolt always strength where it is most needed, and also neatness of finish:

Having thus described the nature, construction, and operation of our improvement, what we claim as of our invention, is-

A new article of manufacture, iron rolled to constitute a series of blanks, in bars, for strap-bolts of the form herein described.

WM. J. LEWIS. HENRY W. OLIVER, JR.

Witnesses:

James J. Johnston, A. C. Johnston.