

M. SEWARD.
Axle Clip for Carriages.

No. 43,607.

Patented July 19, 1864.

Fig. 4.

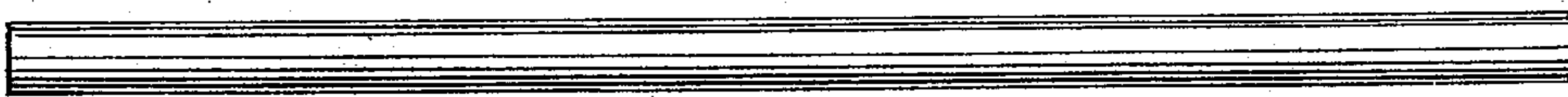


Fig. 3.

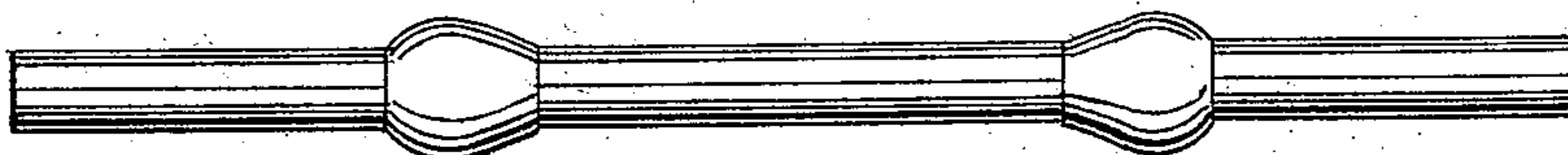


Fig. 2.

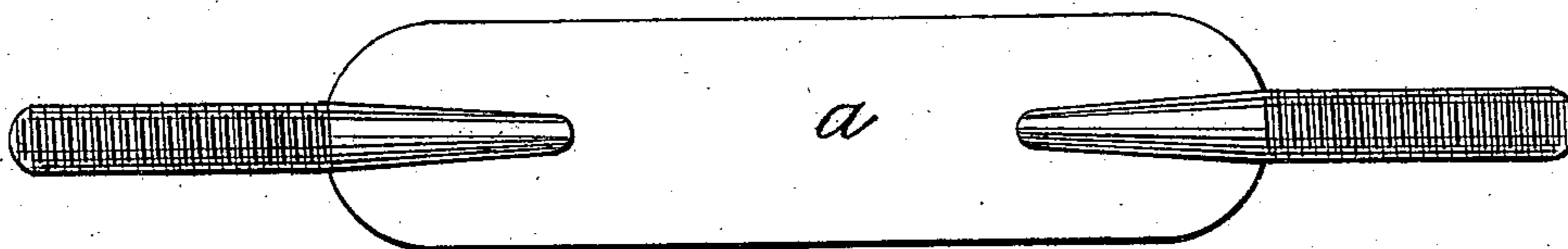


Fig. 1.



WITNESSES.
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MOSES SEWARD, OF NEW HAVEN, CONNECTICUT.

IMPROVED AXLE-CLIP FOR CARRIAGE-WORK.

Specification forming part of Letters Patent No. **43,607**, dated July 19, 1864.

To all whom it may concern :

Be it known that I, MOSES SEWARD, of the town and county of New Haven, and State of Connecticut, have invented a new and Improved Axle-Clip for Carriages and Other Like Articles, the same being an article of manufacture; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and the letters of reference thereon, in which—

Figure 1 represents the improved axle-clip complete for market by a side view. Fig. 2 is a front view of the upper part of the same. Fig. 3 represents the clip as formed by the upsetting-machine before the flat part *a* is struck down by drop or hammer. Fig. 4 shows the round rod or rough material before it is placed in the upsetting-machine.

The iron strap or band by which the axle is fastened to what is known as the "axle-bed" without boring or cutting, called by the trade an "axle-clip," has heretofore been made by the ordinary process of forging and swaging from an ordinary nail-rod or small bar of iron. This process is necessarily slow, for all parts of the clip must be swaged into the required shape and size from a larger bar of different shape. By this process many are lost by im-

perfect workmanship, and they lack the smooth surface and uniform size of the improved clip.

My improved clip is formed by upsetting a round rod of just the size necessary to cut the screws at the end, so as to give the necessary quantity of iron to form the shoulder and increase the strength, as shown in Fig. 3. Then by a single blow of a drop the flat part of the clip and shoulders *b b* is formed, and when trimmed the clip is complete, as in Figs. 1 and 2, ready for cutting the screws.

The advantages of my improved clip are, greater strength, nicety of finish, uniformity of size, and extreme freedom from the ordinary imperfection of forging. It can also be manufactured cheaper than by the old way.

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

An axle-clip made by upsetting a round rod of just the size necessary to cut the screws, so as to give increased strength to the shoulders of the clip, and completing the same by a drop or hammer.

MOSES SEWARD.

In presence of—

LUCIUS G. PECK,
GEORGE F. GARDINER.