E. Meeker.

Making Carriage Coupling-Irons.

No. 69,827. Patented Oct. 15, 1867.

Fig: 1

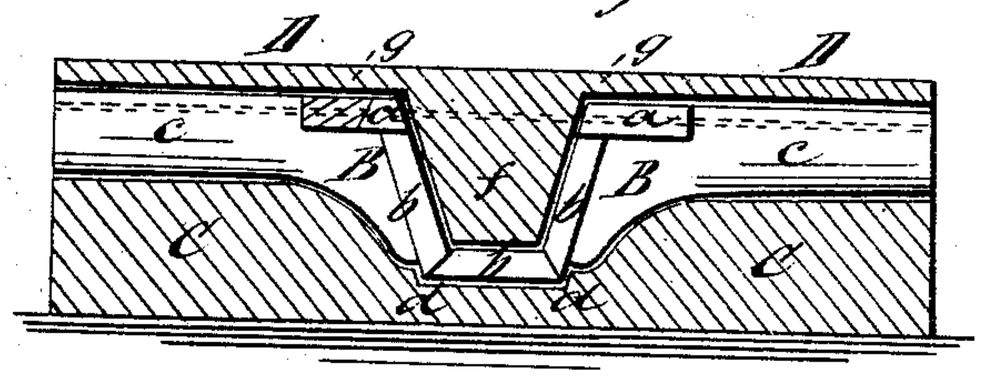


Fig: 2.

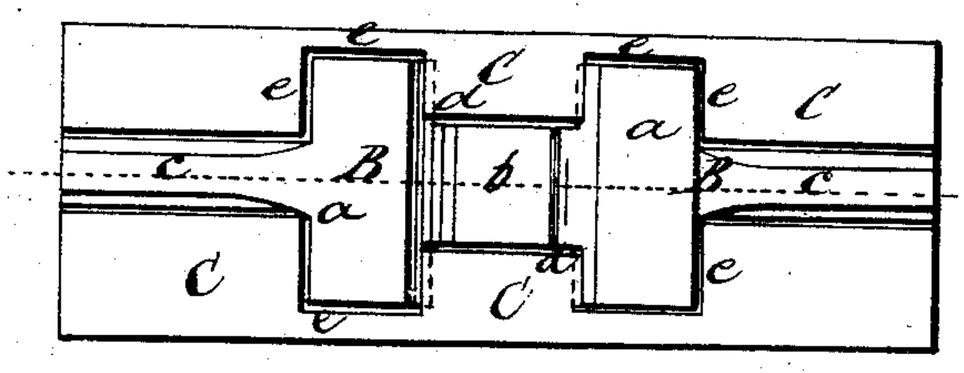
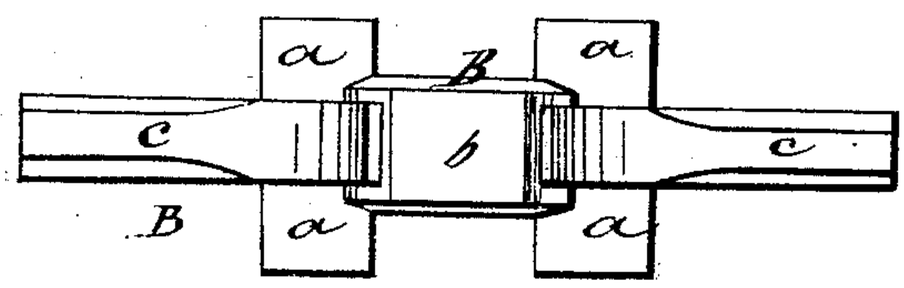


Fig: 3.



Witnesses
Theo. Sroka
Wm. Dean Overell

Inventor:
E. Meeker
Per Munn & Co
Attorneys.

United States Patent Office.

EDWIN MEEKER, OF BRIDGEPORT, CONNECTICUT.

Letters Patent No. 69,827; *dated October* 15, 1867.

IMPROVEMENT IN MANUFACTURE OF CARRIAGE-CLIPS.

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, EDWIN MEEKER, of Bridgeport, in the county of Fairfield, and State of Connecticut, have invented a new and useful Improvement in the Manufacture of Carriage-Clips; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a longitudinal sectional view of my improved moulds for forming carriage-clips.

Figure 2 is a plan or top view of the same, and

Figure 3 is a plan view of the clip.

Similar letters of reference indicate corresponding parts.

This invention relates to certain improvements in the manufacture of carriage and coach-clips. These clips are used to secure the wagon-springs to the axle and to the bodies of coaches and carriages.

B is the upper clip used to fasten the spring to the wagon-axle. It is made in the shape of two plates *a a*, connected by a yoke or bar, *b*, and is provided with arms *c c*, to which the braces are secured as usual. To form these clips by hand is not only a tedious work, but also one which cannot be done very accurately. The forming of the same by machinery will not only make them much cheaper, but also of more uniform size and shape. The clips are formed from suitable bar-iron, either by hand or by a succession of dies, into the rough shape nearest resembling their final appearance. They are then placed into dies C, which have recesses for the reception of the yoke *b*, and also the transverse recesses *e* for the reception of the plates *a a*, (the latter being shown in fig. 2.) Recesses for forming the arms *c c* are also provided, extending the entire length of the die. The upper or male dies D have projections *f* for forming the yoke in the recess *d*, as shown in fig. 1. When the prepared blank is placed into the lower die C, the upper die is forced down, and shapes the yoke in the recess *d* by the block *f*. The remaining portion of the upper die spreads the plates *a a* and arms *c c* into the required form, as shown in fig. 3. If desired, the recesses for the plates *a a* and arms *c c* may be formed partially in each of the dies C D.

I do not claim anything in the form or shape of the clips, nor anything in their arrangement or construction, but I do claim as new and desire to secure by Letters Patent—

Dies C and D, having recesses *d* and *e*, and projecting punches *f*, substantially as and for the purpose herein shown and described.

EDWIN MEEKER.

Witnesses:

F. G. BOTTNER,

JOSHUA LORD.