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HENRY M. BEECHER.

Improvement in Carriage Spring Clip and Plate.

No. 122,428.

Patented Jan. 2, 1872.

Fig. 1.

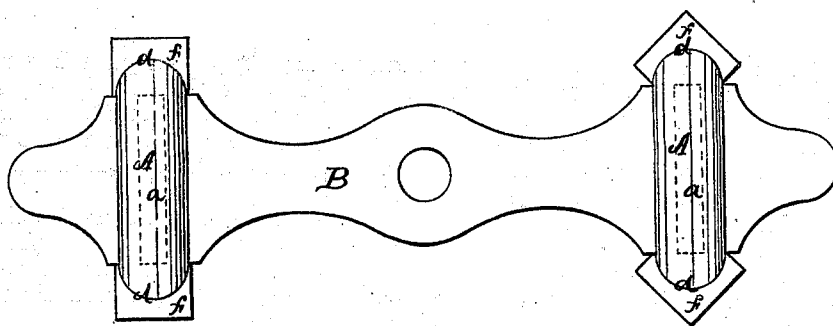
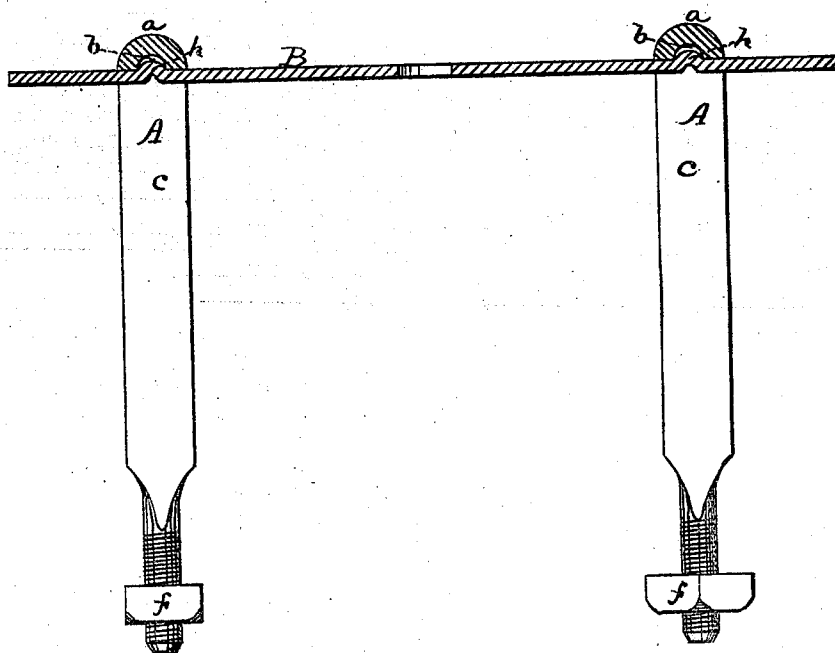


Fig. 2.



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HENRY M. BEECHER, OF PLANTSVILLE, CONNECTICUT.

IMPROVEMENT IN CARRIAGE-SPRING CLIPS AND PLATES.

Specification forming part of Letters Patent No. 122,428, dated January 2, 1872.

To all whom it may concern:

Be it known that I, HENRY M. BEECHER, of Plantsville, in the county of Hartford and State of Connecticut, have invented new Improvements in Carriage-Spring Clips and Plates, of which the following is a specification:

My invention consists in the employment of a groove running longitudinally through under the head of the clip, and of the sheet-metal plate provided with a swaged ridge near each end to be used in connection with said clip, as hereinafter described.

In the accompanying drawing, Figure 1 is a plan or top view of carriage-spring clips and plate embodying my invention, and Fig. 2 a central, longitudinal, and vertical section of the same.

A A designate the spring-clips, which may be made of any design desired. On the under side of the head *a* is a groove, *b*, Fig. 2. This groove is formed by compression in the act of forging the article, and therefore the stock is reduced at the head *a* and thrown outward toward the intersection of the head *a* and arms *c c*, whereby I am able to forge full and square corners *d* without previously upsetting the stock or using a rod of iron larger than is necessary to form the body of the arms *c c*. The arms *c c* are threaded and provided with nuts

f, as in ordinary clips. The plate B is cut out in dies from sheet metal, and may be plain or as ornamental as may be desired. On or near each end of the plate B I strike up or swage a ridge, *h*, the position of which is indicated by broken lines in Fig. 1.

The clips A A are placed over the plate B, the ridge *h* being received in the groove *b*, which will, when the clips are drawn down by means of the nuts *f f*, hold said clips from working sidewise on the plate.

By my invention the plates are cheaply made, and the ridge thereon is entirely hid from view, while the groove, in addition to performing the office of holding the clip in place, produces the desirable and perfect square corners without adding anything to the cost of production.

I claim as my invention—

1. A carriage-spring clip in which the groove *b* is forged in the under side of the head, substantially as and for the purpose described.

2. The clips A A provided with the groove *b*, in combination with the sheet-metal plate B provided with the single swaged ridge *h* at or near each end, all substantially as and for the purpose described.

Witnesses: HENRY M. BEECHER.

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