W. H. H. SNELLBAKER.

SPRING-SEAT RISERS.

No. 186,046. Patented Jan. 9, 1877.

Fig. 1.

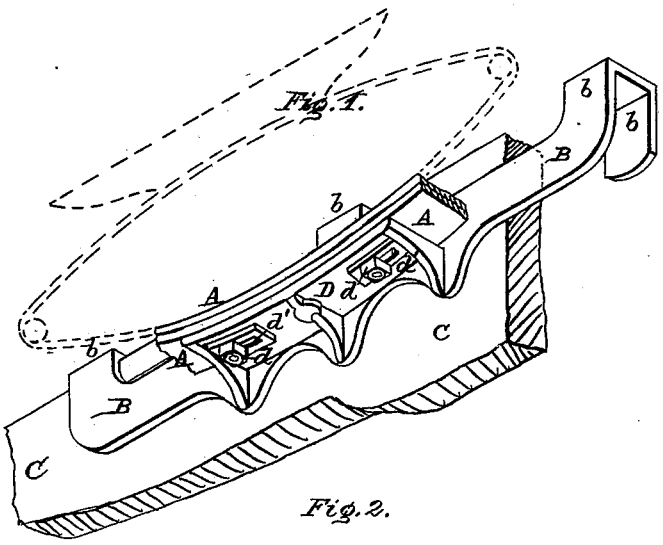


Fig. 2.

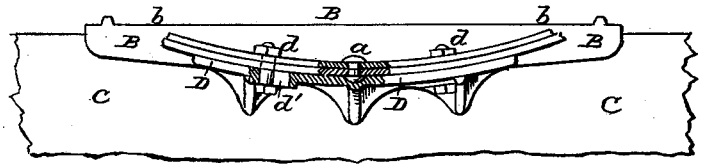
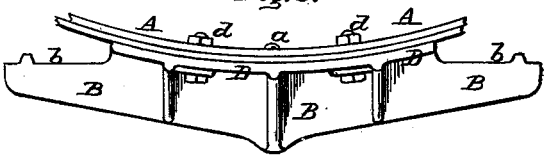


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM H. H. SNELLBAKER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO MOLINE MALLEABLE IRON WORKS, OF MOLINE, ILLINOIS.

IMPROVEMENT IN SPRING-SEAT RISERS.

Specification forming part of Letters Patent No. **186,046**, dated January 9, 1877; application filed November 17, 1876.

To all whom it may concern:

Be it known that I, WILLIAM H. H. SNELLBAKER, of the city and county of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Seat-Spring Risers, of which the following is a specification:

The object of my invention is to produce a device for sustaining the elliptic supporting-springs of vehicle-seats, which shall be capable of universal application, and which may be put upon the market complete and ready for instant use without special fitting or adjustment; and to this end the invention consists in a metal body provided on one side with hooks to engage over the side of the vehicle-body, and on the other with a slotted flange or shelf to receive and sustain the spring.

Figure 1 is a perspective view of my device in use, the upper part of the spring being shown in dotted lines. Figs. 2 and 3 are side views, illustrating slightly-modified forms of the device.

A represents the ordinary elliptic spring, used for supporting one end of the vehicle-seat, composed of leaves united by a central rivet, *a*. B represents the body of my riser, consisting of a vertical plate provided on one side with a curved flange or plate, D, for the spring to rest upon, and upon the other side with two or more hooked arms, *b*, or a continuous hooked flange, to engage over the edge of the vehicle-body, as shown. The flange or shelf D is provided at the middle with a recess to receive the rivet *a*, which unites the leaves of the spring, as shown in Fig. 2, whereby the spring is prevented from playing endwise. The flange or shelf is also provided in its ends with longitudinal slots *d* to receive bolts *d'*, by which the spring is secured rigidly in place. The slots permit the introduction of bolts at different distances apart, and thus adapt the device for the reception of springs of different sizes and forms. In order to give the seat the proper inclination backward the hooked arm at the rear end of the riser will be made longer than the other, to give the riser a backward pitch or inclination.

The risers constructed as above require no fitting or adjusting, are adapted to any and all elliptic springs in use, and are in many respects superior to the crude devices hitherto in use.

The present device is intended, as shown, for sustaining what are known as double or full elliptic springs, and it differs from the one for which Letters Patent were granted to me March 9, 1875, in that it is made complete in a single piece, instead of in two pieces connected by a wooden bar, and in that it has the single central bearing to sustain the middle of the elliptic spring, instead of the two end bearings provided in the original device to sustain the two extremities of the semi-elliptic spring.

Having thus described my invention, what I claim is—

1. As a new article of manufacture, a metal riser for elliptic seat-springs, made complete in one piece, with a body, A, having terminal hooked arms *b*, on one side, and a central flange or shelf, D, on the opposite side, substantially as shown.

2. The body B, provided with the hooked arms *b*, and the flange D, provided with the longitudinal slots *d*, as and for the purpose described and shown.

3. In combination with the spring A, provided with the rivet *a*, the metal riser provided with the flange or shelf D, having a recess to receive the rivet, and slots *d*, to receive the fastening-bolts *d'*, as described and shown.

WILLIAM H. H. SNELLBAKER.

Witnesses:

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C. L. KUEN.