

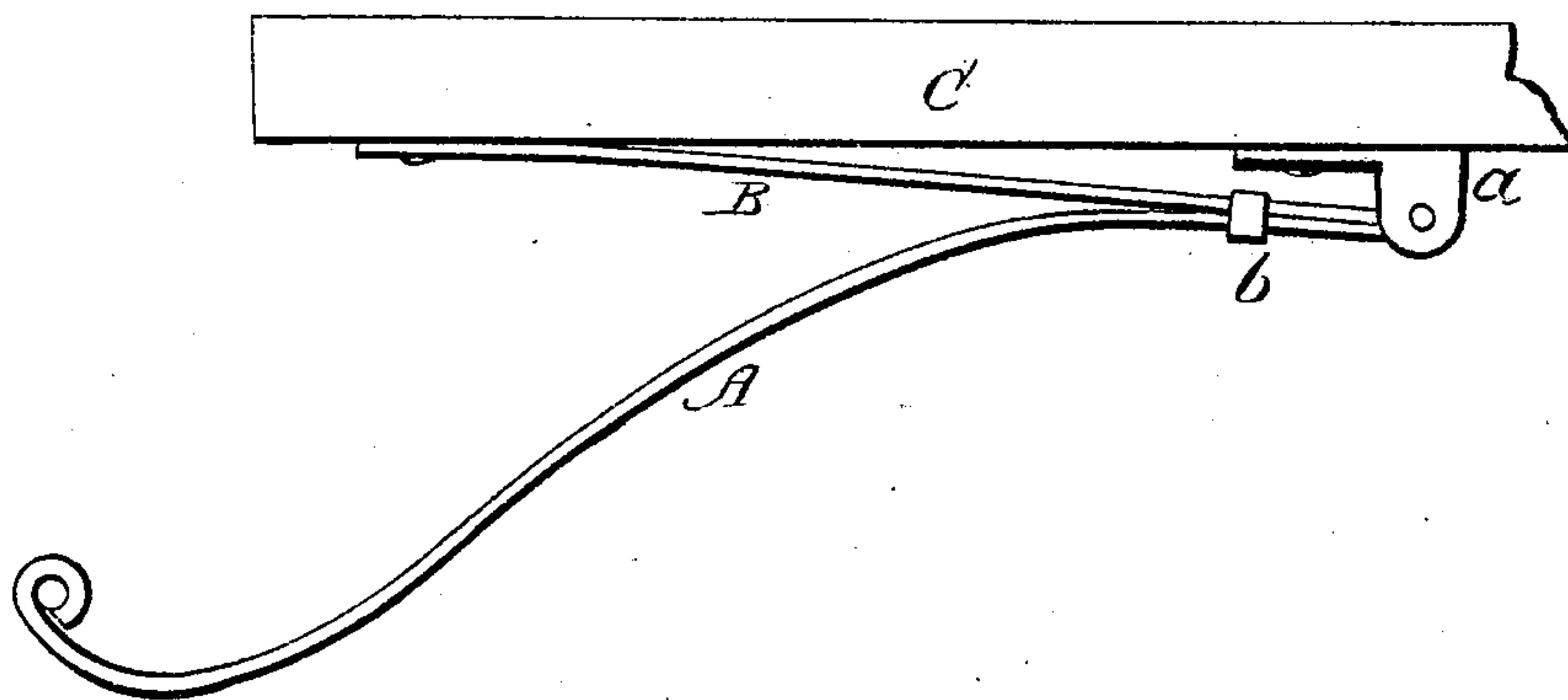
(Model.)

G. WHITE.  
SPRING FOR VEHICLES.

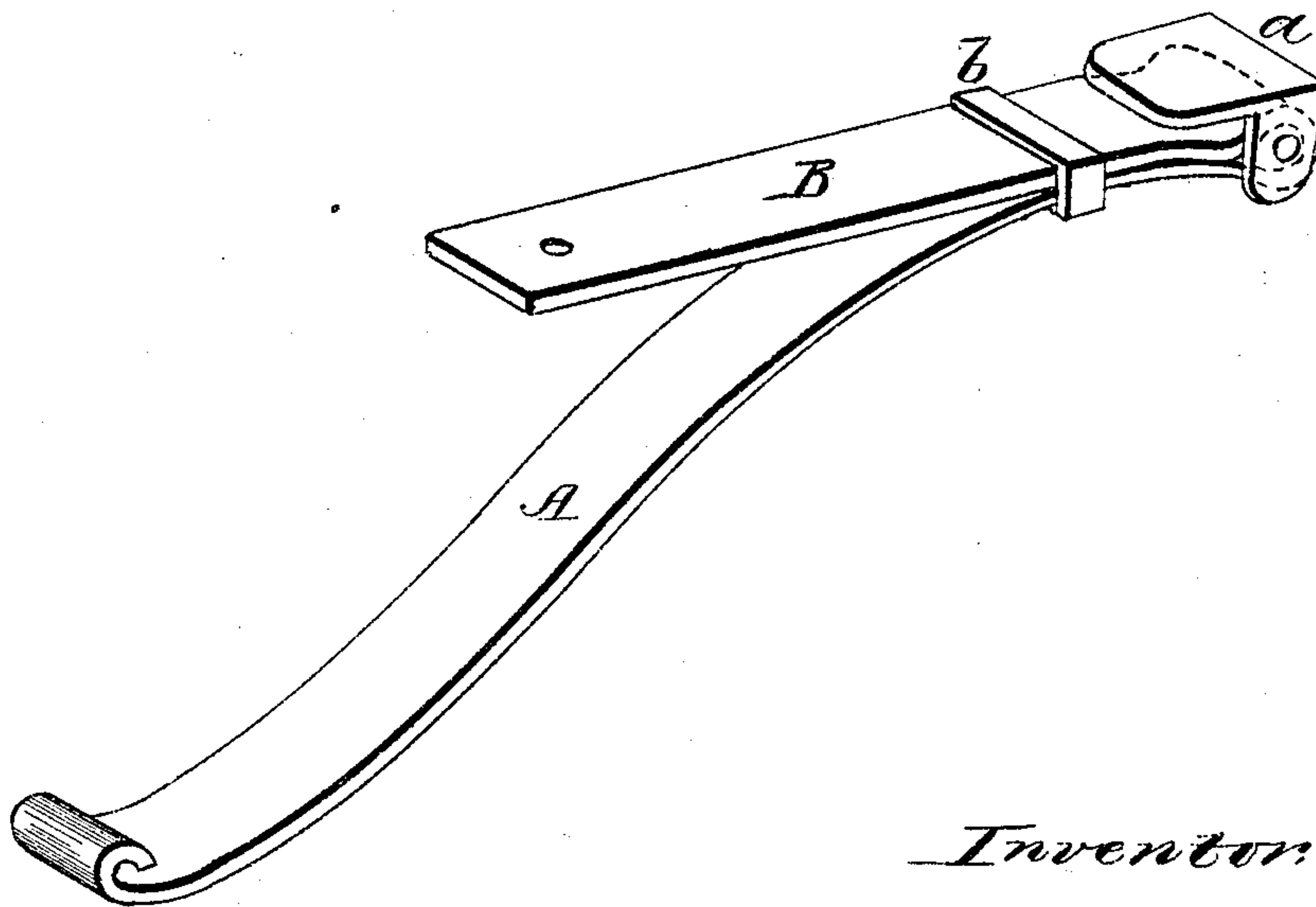
No. 250,610.

Patented Dec. 6, 1881.

*Fig. 1.*



*Fig. 2.*



*Inventor:*

*George White.*

*Witnesses:*

*A. C. McArthur,*

*Witness*

*per. Chas. H. Fowler,*  
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# UNITED STATES PATENT OFFICE.

GEORGE WHITE, OF GREENVILLE, PENNSYLVANIA.

## SPRING FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 250,610, dated December 6, 1881.

Application filed August 9, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, GEORGE WHITE, a citizen of the United States, residing at Greenville, in the county of Mercer and State of Pennsylvania, have invented certain new and useful Improvements in Springs for Vehicles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a front elevation of my invention; and Fig. 2 is a perspective view, showing the spring and shackle disconnected from the cross-bar.

The present invention has relation to certain new and useful improvements in springs for vehicles; and it consists in the details of construction, substantially as shown in the drawings and hereinafter described.

In the accompanying drawings, A represents the spring, which is bent around at its inner end to form an extension-bar, B, which lies directly over the spring, and is connected at its outer end to the under side of the cross-bar or body C of the vehicle. At the inner end of the spring A, where it is bent around to form the extension-bar B, it is bent in such manner as to form an eye, by which it is connected to a shackle, *a*, by a suitable bolt passing through the eye and shackle, as shown. The point at which the eye is connected to the shackle is considerably lower than the point at which the

outer end of the extension-bar B is secured to the cross-bar or body C, so that the bar B will form an angle of about fifteen degrees with the body C. The spring, as will be seen, curves downward and upward, and at its outer end has a suitable eye for connecting it to the side bar of the vehicle in the ordinary manner. The reverse curve of the spring A at its inner end to form the extension-bar B brings both the spring and bar in a position to produce a greater amount of motion, and also serves to obviate side motion, and allows the required vibration. A clip, *b*, passes around both spring A and extension B, near their inner ends, and prevents any upward motion that would tend to break them.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The spring A, bent, as shown, to form the extension-bar B, said bar at its outer end being connected to the under side of the cross-bar C, and at its inner end to the shackle *a* at an angle to said cross-bar, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE WHITE.

Witnesses:

F. B. REZNOR,  
I. E. MEÉHOUSE.