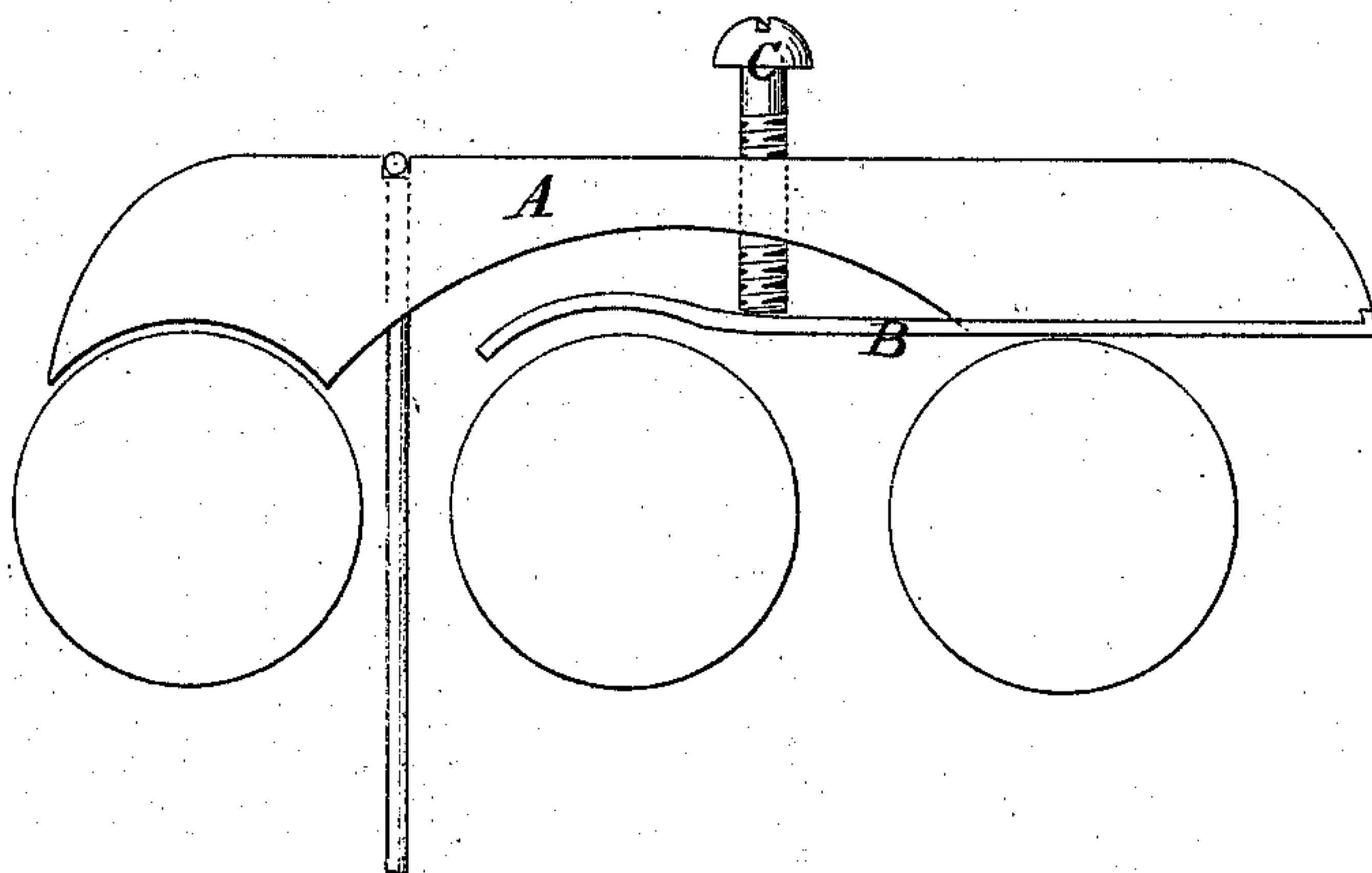


*J. S. CASEY,*  
*Drawing Roller.*

*No. 107,758.*

*Patented Sept. 27. 1870.*



*Witnesses.*

*Chas. Kenyon,*  
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# UNITED STATES PATENT OFFICE.

JAMES S. CASEY, OF VOLUNTOWN, CONNECTICUT.

## IMPROVEMENT IN SADDLES FOR SPINNING-MACHINES, &c.

Specification forming part of Letters Patent No. **107,758**, dated September 27, 1870.

*To all whom it may concern:*

Be it known that I, JAMES S. CASEY, of Voluntown, in the county of Windham and State of Connecticut, have invented a new and valuable Improvement in Saddles for Spinning-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a side view of my saddle.

My invention has relation to an improvement in the saddles of spinning-machines; and it consists in constructing the saddle with a central adjustable spring, designed to vary the pressure on the middle roll at will, or to remove it altogether therefrom, according to the nature of the stock. If it be long-staple cotton, the "long saddle" is formed by raising the spring off the middle roll. If short staple, the spring is depressed and made to bear on the middle roll.

The letter A of the drawing represents the body of my saddle, made of wood or other suitable material. One end of the saddle is designed to rest on the forward roller and the other on the rear one. The under side of the saddle, between the bearings for these two rollers, is hollowed out or arched to provide room for the adjustment of the spring.

B designates a spring attached to one end of the saddle, on the under side thereof. This spring is curved somewhat at its forward end to suit the curvature of the middle roller, upon which it is designed to rest when the saddle is used in spinning cotton of short staple.

C represents a set-screw, which passes through the body of the saddle downward by impinging against the spring B, and serving to regulate its adjustment, and thereby the pressure on the middle roll.

The advantages of my invention are readily apparent. The same saddle may be used in spinning short-staple cotton which is employed with long staple. For this purpose it is readily changed from a long to a double saddle, and the weight may be distributed between the middle and end rolls, as necessity may require.

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

An adjustable saddle for spinning-machines, provided with a spring and set-screws or their equivalents to vary the pressure on the middle roll, or relieve it entirely therefrom, substantially as specified.

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

J. S. CASEY.

Witnesses:

HIRAM JENCKS,  
V. B. KINNEY.