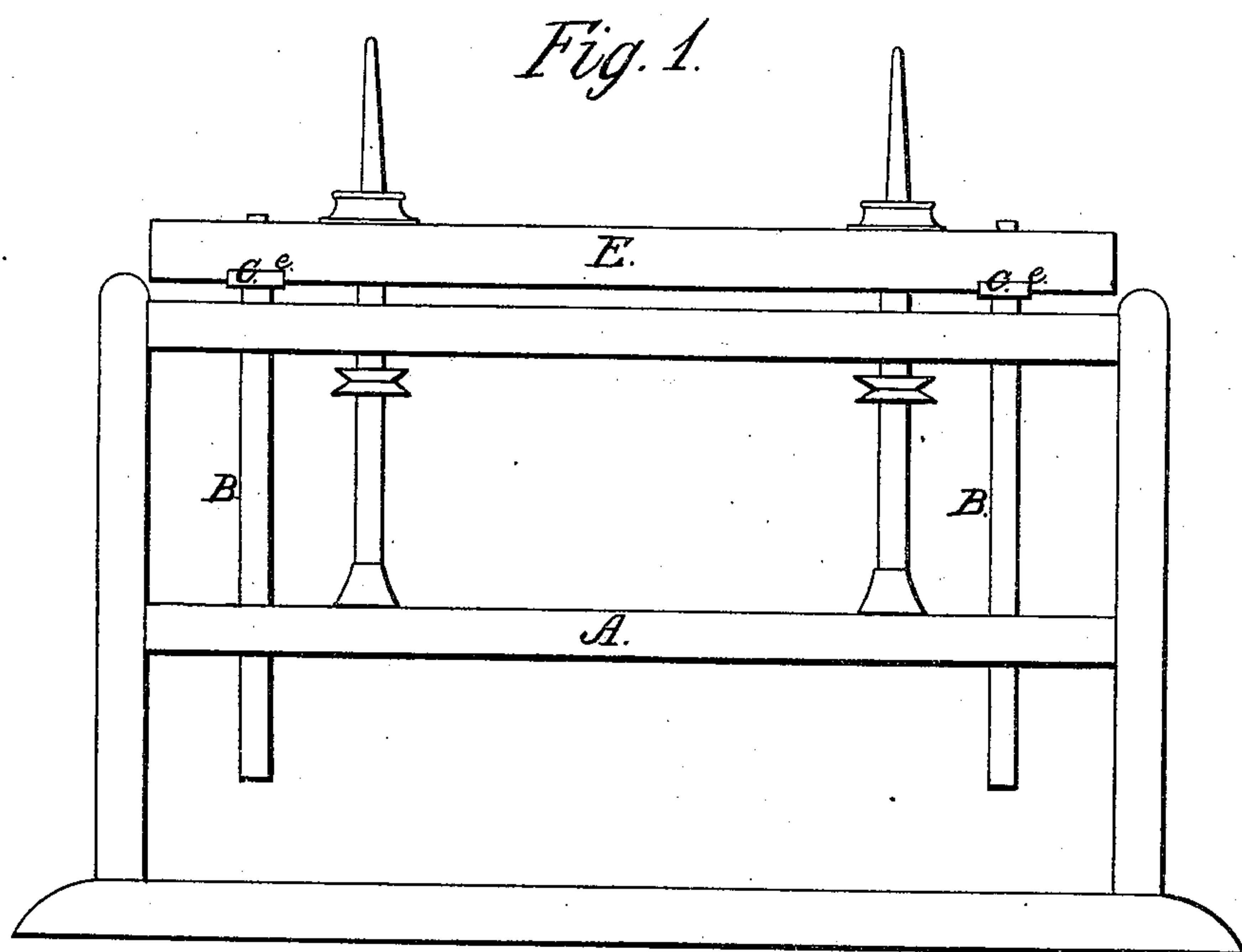
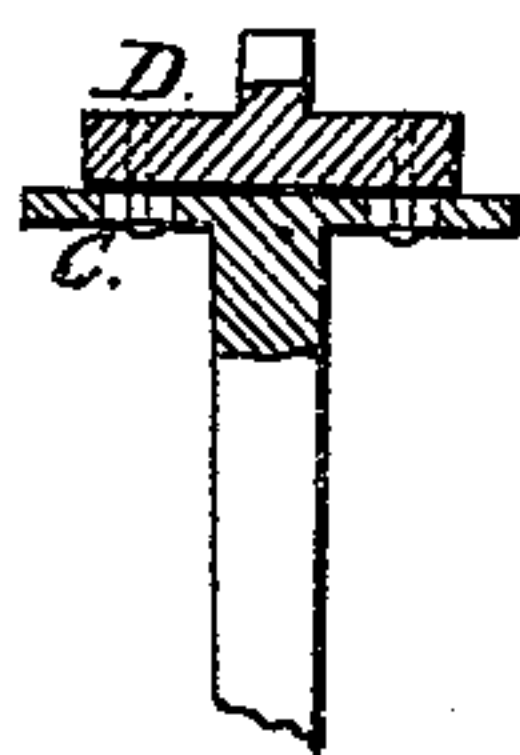


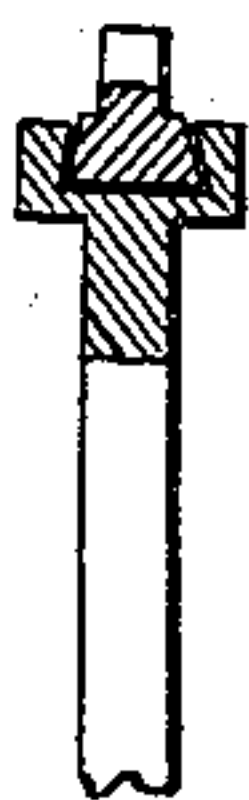
*S. B. Parmenter.*  
*Ring Spinning Frame.*  
*Nº 89,597. Patented May 4, 1869.*



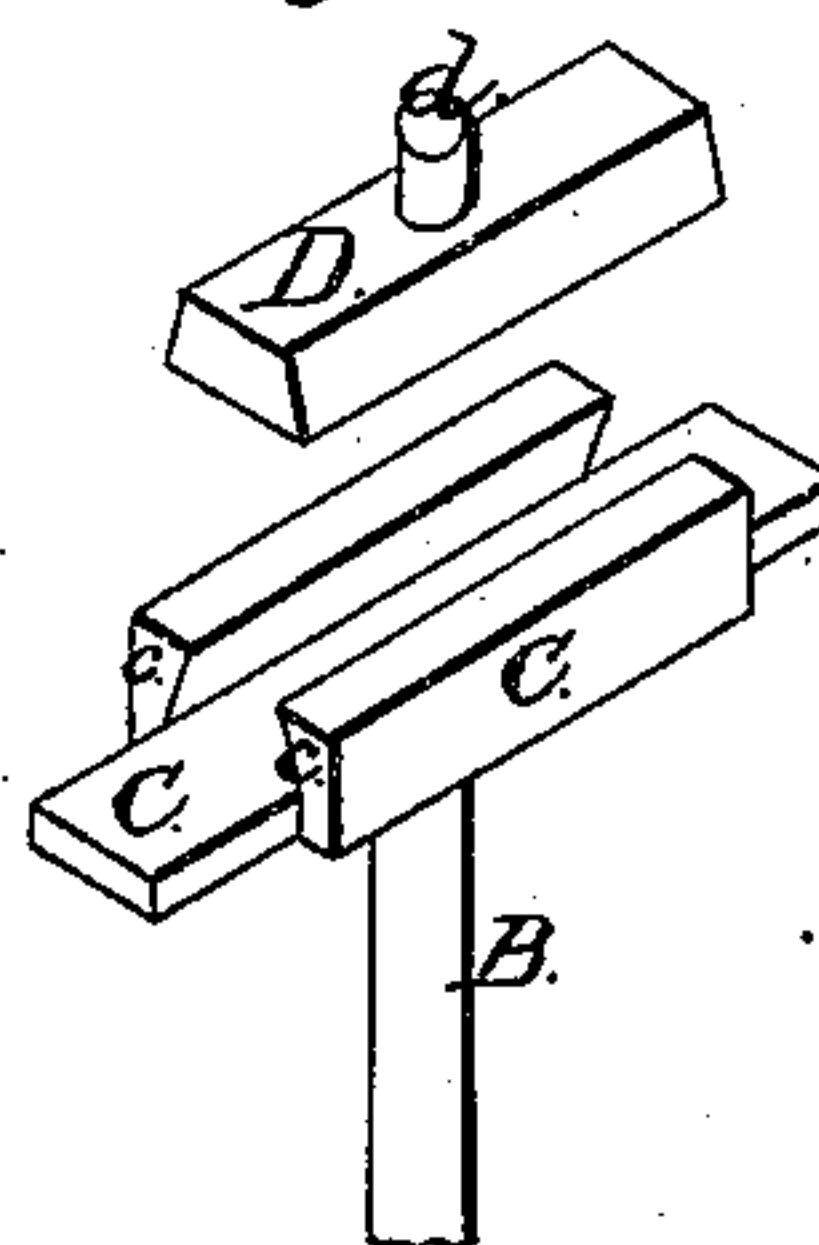
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses.*

*C. H. Brown*  
*Fred Thomas*

*Inventor.*

*S. B. Parmenter*  
*by J. W. Beadle Attorney*

# United States Patent Office.

SAMUEL B. PARMENTER, OF LEWISTON, MAINE.

*Letters Patent No. 89,597, dated May 4, 1869.*

## IMPROVEMENT IN SPINNING-FRAME.

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, SAMUEL B. PARMENTER, of Lewiston, in the county of Androscoggin, and State of Maine, have invented a new and improved Lifting-Rod for Spinning-Machine; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to an improvement in ring-rail lifting-rods for ring-spinning and twisting; and consists in providing the lifting-rod, upon which the ring-rail rests, with an adjustable top.

The details of construction will be fully described hereinafter.

In the drawings—

Figure 1 is a side elevation of my invention.

Figure 2 is a longitudinal vertical section of the head C and bar D.

Figure 3, a transverse vertical section of the same arrangement; and

Figure 4 is a perspective view of the head C and sliding bar D.

To enable others skilled in the art to which my invention appertains, to make and use the same, I will proceed to describe fully its construction and operation.

In the ring-spinning and twisting machines in general use, the top of the lifting-rod is made in one solid piece, rigidly attached to the rod.

This construction, in practice, occasions great difficulty whenever the rings are not concentric with the spindles, because adjustment is impossible. At such times the traveller is caused to bear irregularly upon the ring, and the latter thus wears unequally, and gives the traveller a vibrating motion.

To make good yarn, it is essential that the rings should be concentric with the spindles.

The object of this invention is to enable the ring-rail to be readily adjusted, whenever it may be necessary for the purpose specified.

A represents the frame, in which move the lifting-rods B.

C represents the top or head of the rod, which is provided with the sides *c c*, which form a groove for the sliding bar D, having the pin *d*.

The two parts C D are connected by screws, which prevent displacement.

In order that lateral movement may be permitted, the top C is slotted, as shown.

E represents the rail, which holds the rings.

This rail rests upon the top C, as shown, its notches *e* fitting over the latter in such manner that longitudinal movement is rendered impossible.

The pins *d* extend through the rail, as shown.

The bar D fits snugly within the rails, its ends resting against the sides of the latter.

From this description, it will be perceived that the rail may be adjusted laterally within certain limits in either direction by simply moving the bar D, which operation may be accomplished through the medium of the rail.

When the proper adjustment is made, the screws connecting the parts C D may be tightened to secure the rail in place.

By the construction herein described, an entire rail holding sixty rings, more or less, may be adjusted whenever it may be necessary.

The operation is exceedingly simple and effective.

Having thus fully described my invention,

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

The combination of the head C and the adjustable bar D, when constructed as described, with the lifting-rods B and ring-rails E, substantially as described, for the purpose set forth.

This specification signed and witnessed, this 2d day of March, 1869.

SAML. B. PARMENTER.

Witnesses:

FRANCIS P. WEYMOUTH,  
JACOB M. MACE.