(No Model.)

R. ATHERTON & J. NEWBY.

THREAD GUIDE FOR SPOOLING MACHINES.

No. 278,487. Patented May 29, 1883.

Fig. 1

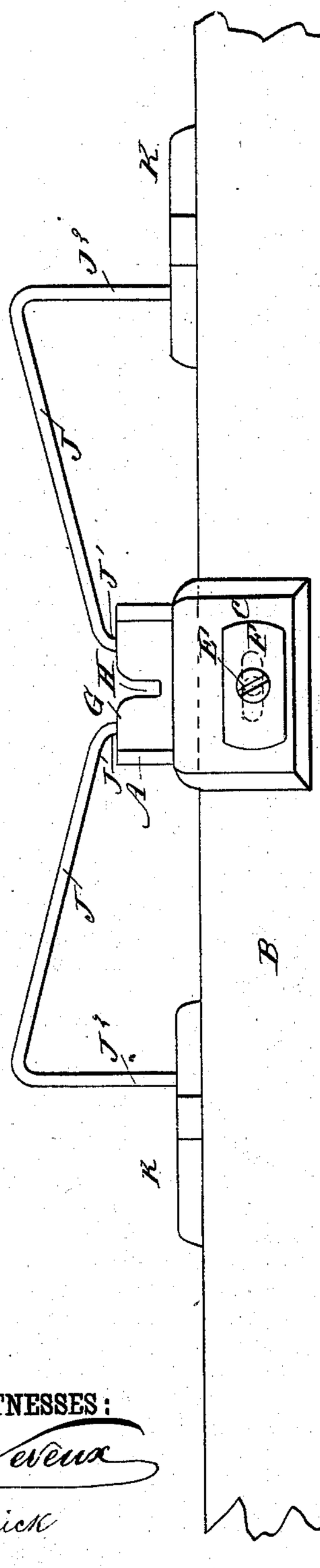


Fig. 2

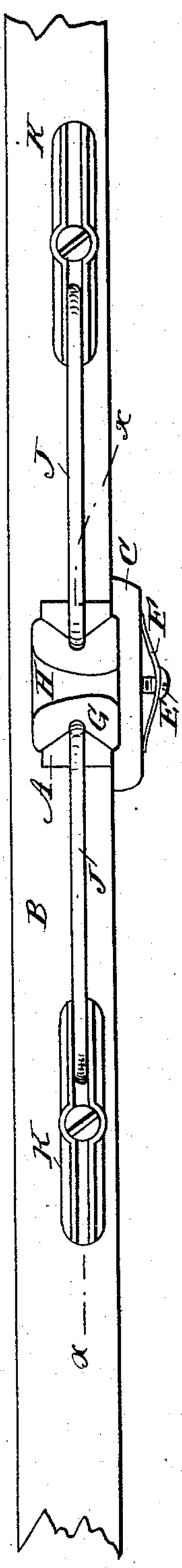
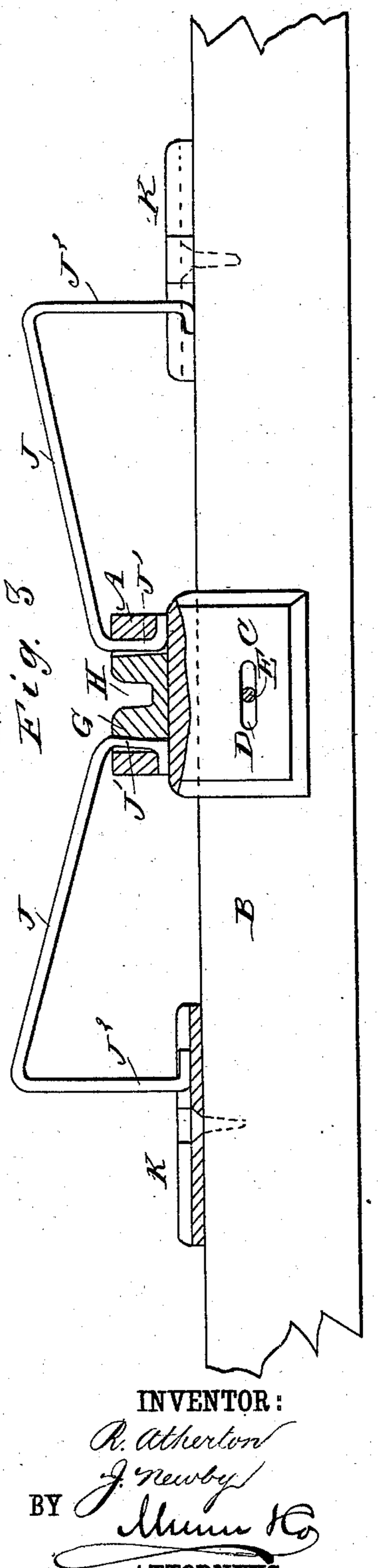


Fig. 3



WITNESSES:

C. Neveux

C. Sedgwick

INVENTOR:

R. Atherton

J. Newby

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ROBERT ATHERTON AND JAMES NEWBY, OF PATERSON, NEW JERSEY.

THREAD-GUIDE FOR SPOOLING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 278,487, dated May 29, 1883.

Application filed June 22, 1882. (No model.)

To all whom it may concern:

Be it known that we, ROBERT ATHERTON and JAMES NEWBY, of Paterson, in the county of Passaic and State of New Jersey, have invented a new and Improved Thread-Guide for Spooling-Machines, &c., of which the following is a full, clear, and exact description.

The object of our invention is to facilitate the adjusting, removing, and replacing of the thread-guides of spooling-machines and like machines.

The invention consists in a recessed block mounted to slide on the traverse-bar, and adapted to receive a thread-guide, which block is provided with spring-rods for holding the thread-guide in the recess in the block. The free ends of these spring-rods rest in grooved tracks on the traverse-bar, which spring-rods are thus adapted to slide with the block for adjustment of the position of the thread-guide.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal elevation of our improved thread-guide for spooling-machines, &c. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal sectional elevation of the same on the line *x x*, Fig. 2.

A block, A, adapted to rest on the upper edge of the traverse-bar B, is provided on one side with a downwardly-projecting lug, C, resting against the side of the traverse-bar B, and provided with a horizontal slot, D, through which a screw or pintle, E, passes, which also passes through the spring-washer plate F, resting against the outer surface of the lug C. The block A is provided in its upper edge with a recess for receiving a thread-guide made of glass, porcelain, metal, or other suitable material, and provided in its upper edge with a tapering transverse groove, H, or with a slightly diagonal groove, as may be desired. A U-shaped or like spring-rod, J, is secured to each end of the block A, the shorter shanks J′ passing down on the inner sides of the end pieces of the block, in which end pieces the ends of these spring-rods J are recessed, as shown in Fig. 3. The lower ends of the long shanks J^2 of the spring-rods J are preferably bent over, and are adapted to slide in tracks K, consisting of grooved plates secured on the upper edge of the traverse-bar B, a short distance from the ends of the block A.

The operation is as follows: If a thread-guide, G, is to be placed into the block A, the lower ends of the shanks J^2 are raised out of the grooved tracks K and allowed to rest upon the traverse-bar B, as shown in the right portion of Fig. 3, whereby the tension of the spring-rods will be reduced. The thread-guide is then placed in the socket-block, and the lower ends of the shanks J^2 are raised and placed in the grooved tracks K again, whereby the tensions of the spring-rods J will be increased sufficiently to hold the thread-guide in the socket by the pressure of the shanks J′ against the said guide. The block A can easily be moved in the direction of the length of the traverse-bar B such distances as the adjustment of the thread-guide may require, the lower ends of the shanks J^2 of the spring-rods J moving in the grooved tracks K.

The above-described thread-guide can be attached to any traverse-bar of the usual construction, and if the block A is moved for adjustment by striking it the thread-guide G will not break, as the plain glass or porcelain thread-guides do.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination, with the traverse-bar, socket-block, thread-guide, and grooved tracks K, of the spring-rods having one end connected to said socket-block, and the other or free end adapted to slide in said grooved tracks, substantially as described.

2. The combination, with a traverse-bar, of one or more socket-blocks adapted to slide on the traverse-bar and adapted to receive thread-guides, of spring-rods attached to this block, and of grooved tracks screwed on the traverse-bar and adapted to receive the free ends of these spring-rods, substantially as herein shown and described, and for the purpose set forth.

3. The combination, with the traverse-bar B, of the sliding block A, provided with a slotted lug, C, the pintle or screw E, the thread-guide G, the spring-rods J, and the grooved tracks

K, substantially as herein shown and described, and for the purpose set forth.

4. The combination, with the traverse-bar B, of the sliding block A, provided with a slotted lug, C, the pintle or screw E, the spring-washer F, the thread-guide G, the spring-rods J, and the grooved tracks K, substantially as herein shown and described, and for the purpose set forth.

ROBERT ATHERTON.
JAMES NEWBY.

Witnesses:
EDWARD R. WEISS,
THOMAS NUGENT.