

No. 675,136.

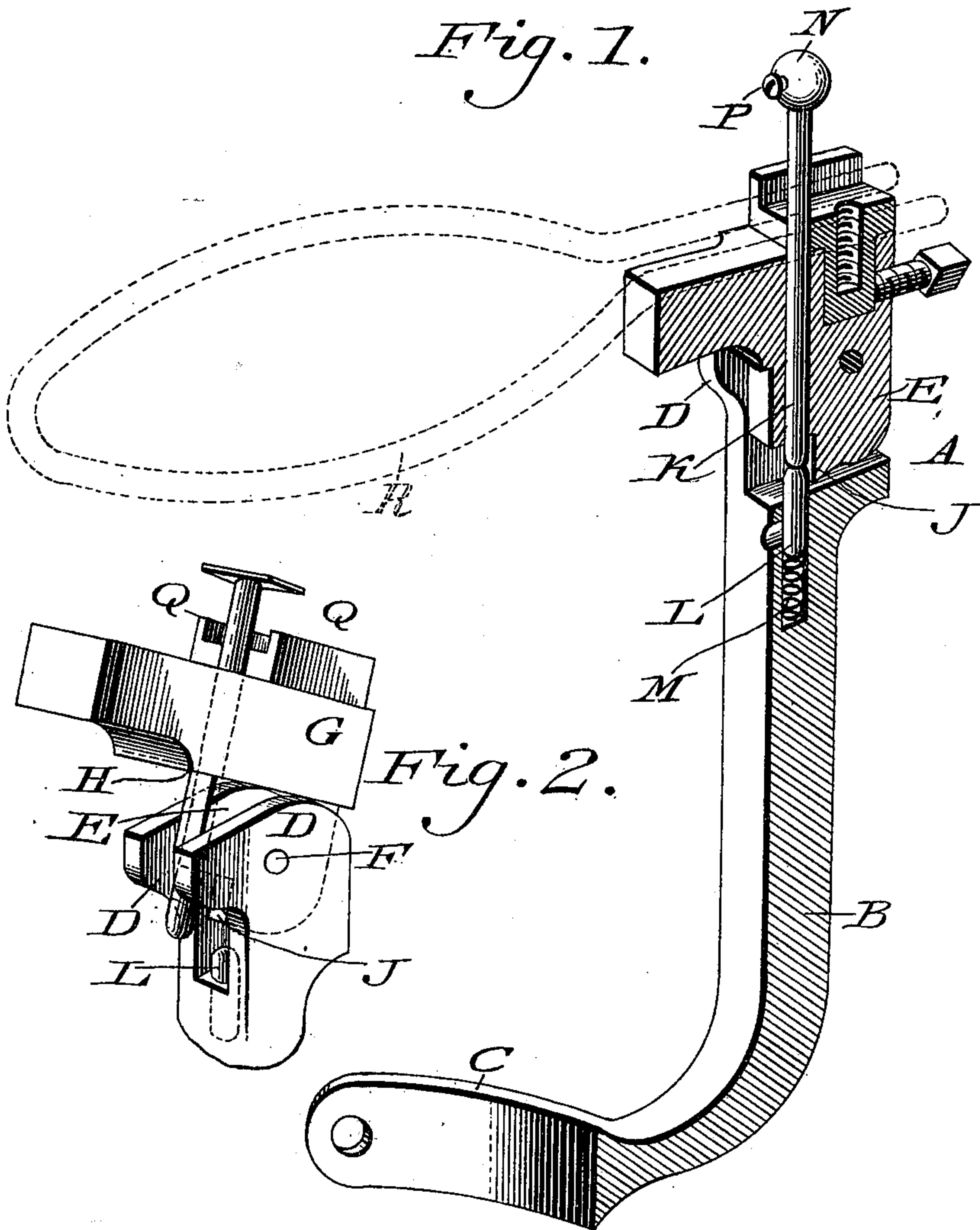
Patented May 28, 1901.

I. MOSSOP & L. K. DIEFENDERFER.

AUTOMATIC LOCKING DEVICE FOR YARN GUIDES OF KNITTING MACHINES.

(No Model.)

(Application filed Sept. 26, 1900.)



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UNITED STATES PATENT OFFICE.

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AUTOMATIC LOCKING DEVICE FOR YARN-GUIDES OF KNITTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 675,136, dated May 28, 1901.

Application filed September 26, 1900. Serial No. 31,143. (No model.)

To all whom it may concern:

Be it known that we, ISAAC MOSSOP and LEWIS K. DIEFENDERFER, citizens of the United States, residing at Wiconisco, in the county of Dauphin and State of Pennsylvania, have invented a new and useful Improvement in Automatic Locking Devices for Yarn-Guides of Knitting-Machines, of which the following is a specification.

Our invention consists of an improvement in automatic locking devices for yarn-guides of knitting-machines, whereby the yarn-guide can be tilted back when it is desired to remove the cylinder from the bed of a machine.

It further consists of novel details of construction, all as will be hereinafter fully set forth.

Figure 1 represents a vertical sectional view of an automatic locking device embodying our invention. Fig. 2 represents a perspective view of a portion of the same.

Similar letters of reference indicate corresponding parts in both figures.

Referring to the drawings, A designates an automatic locking device for yarn-guides of knitting-machines, the same consisting of a supporting-post B, the lower end of which is provided with any suitable means for attaching the same to the cam-cylinder of a knitting-machine, in the present instance by a yoke C, one-half of which is shown. On the other end of said post are the ears D, between which is a footpiece E, which is pivoted thereto by the pin F, said footpiece carrying the head G, which has a shoulder H, the same being adapted to rest on the top of the ears D, which latter, it will be noticed, are curved at the rear portion thereof. The foot E is cut away, forming a shoulder J, while passing through said head is a pin K, movably mounted therein and in alinement with a plunger L, which is mounted in the post B and is held in normal position by a spring M. The upper end of said pin is provided with a head N, held in position by a screw P, it being noticed that the said plunger L projects between the ears D in front of the shoulder J on the foot E.

R designates a yarn-guide, which is secured in the ways Q, carried by the head.

The operation is as follows: The parts ap-

pear in their normal position in Fig. 1. When it is desired to remove the cylinder from the body of the machine, the pin K is depressed, so as to lower the plunger L below the adjacent shoulder J of the foot E, so that the said foot, head, and yarn-guide can be tilted backwardly to any position and the cylinder can thus be removed from the machine, the rearward movement being permitted by the curved portion of the ears D. Upon turning the head downwardly the bottom of the foot E rides over the top of the plunger until it has passed the same, when the spring N forces up the pin and prevents the tipping backward of the head, it being noted that the shoulder H on the head contacts with the top of the ears D and prevents the downward movement of the head. Suitable means for preventing the plunger from leaving the opening in the post B are employed.

It will be noted that various changes may be made in the art which may come within the scope of our invention, and we do not therefore desire to be limited in every instance to the exact construction we have herein shown and described.

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

1. In a device of the character specified, a post, a head, a yarn-guide carried by said head, a plunger for locking said head in position, and means for permitting the movement of said head.

2. In a device of the character specified, a post, a head pivoted thereto, a yarn-guide carried by said head, a plunger adapted to bear against said head, and locking the same in position, and means for depressing said plunger, whereby said head can be moved in position.

3. In a device of the character specified, a head pivoted thereto, a shoulder on said head, a plunger in said post adapted to abut against said shoulder, a pin adapted to depress said plunger, and a yarn-guide carried by said head.

4. In a device of the character specified, a post, a head pivoted thereto, a yarn-guide carried by said head, a plunger adapted to bear against said head, a spring for holding

said plunger in proper position and means for depressing said plunger whereby said head can be moved.

5 In a device of the character specified, a head pivoted thereto, a yarn-guide carried by said head, an opening in said post, a plunger in said opening adapted to bear against said head, and lock the same in position, a spring

bearing against the lower end of said plunger, and a spring adapted to depress said plunger 10 and movable on said head.

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