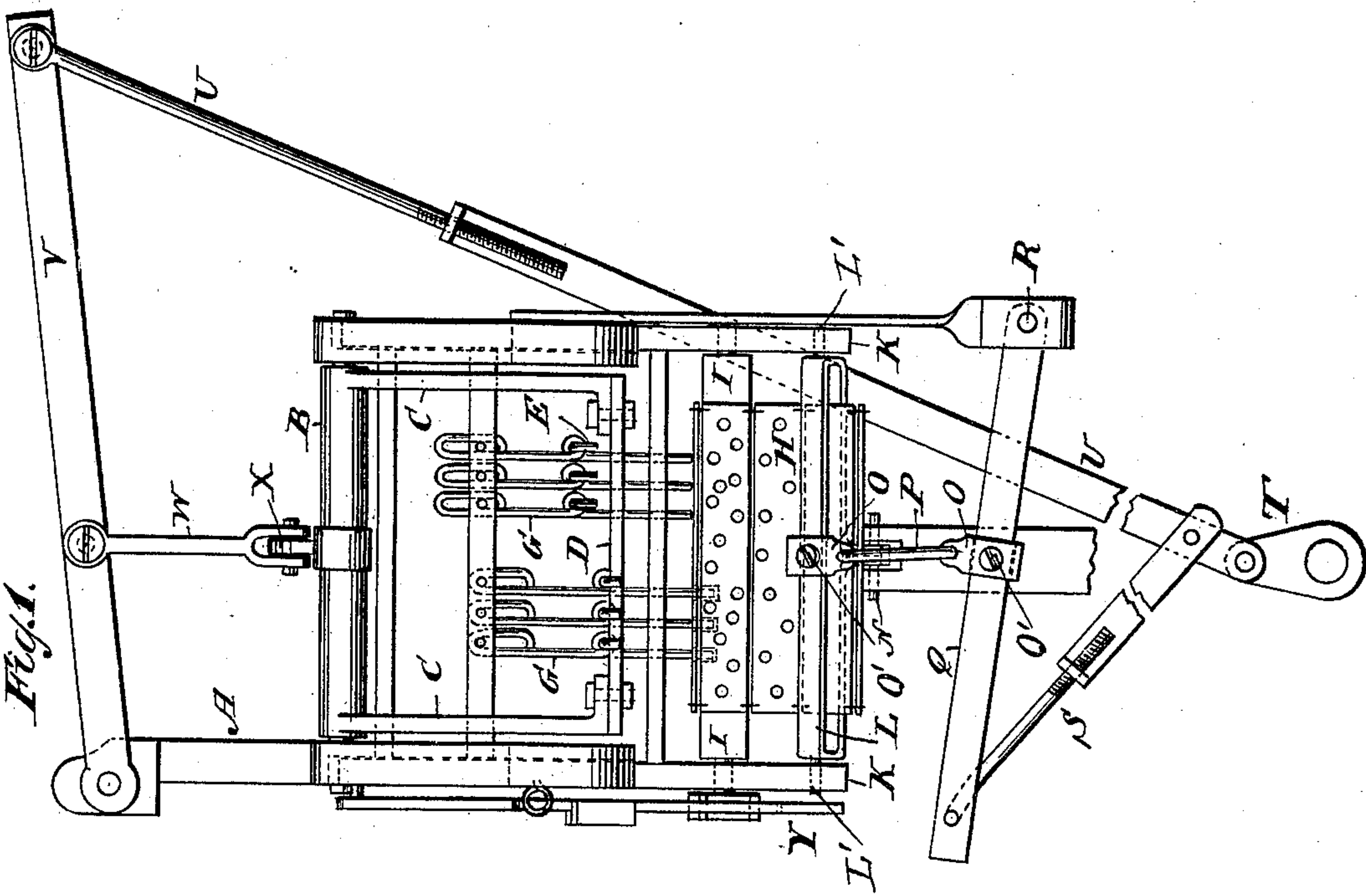
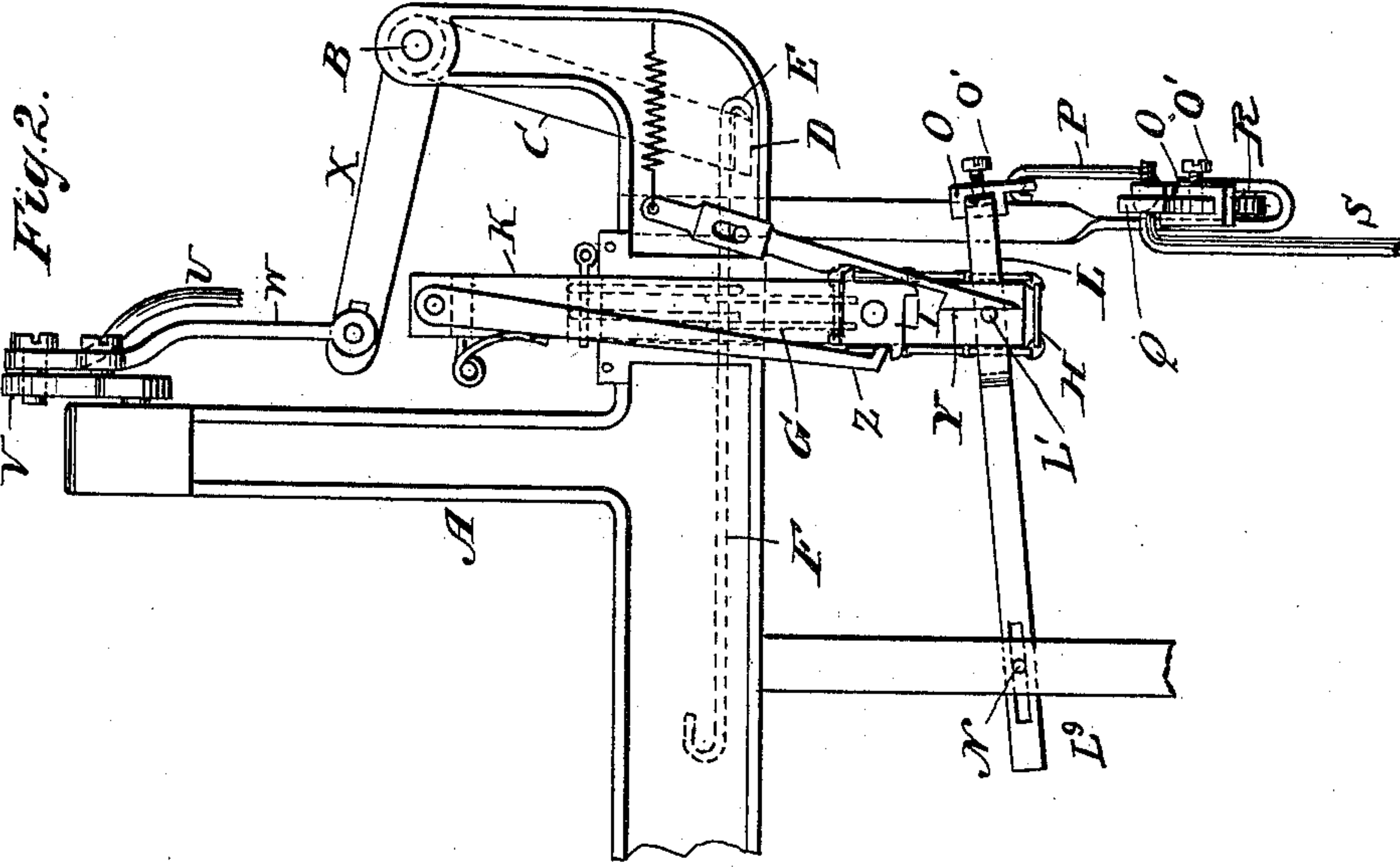


(No Model.)

E. WEIBEL.
SHEDDING MECHANISM FOR LOOMS.

No. 432,460.

Patented July 15, 1890.



WITNESSES:

Edward Wolff
William Miller

INVENTOR

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ATTORNEYS

UNITED STATES PATENT OFFICE.

EMIL WEIBEL, OF COLLEGE POINT, NEW YORK.

SHEDDING MECHANISM FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 432,460, dated July 15, 1890.

Application filed January 2, 1890. Serial No. 335,669. (No model.)

To all whom it may concern:

Be it known that I, EMIL WEIBEL, a citizen of the United States, residing at College Point, in the county of Queens and State of New York, have invented new and useful Improvements in Shedding Mechanisms for Looms, of which the following is a specification.

This invention relates to improvements in shedding mechanisms for looms; and it consists in certain details of construction set forth in the following specification and claims and illustrated in the accompanying drawings, in which—

Figure 1 is a rear view of a shedding mechanism embodying my invention. Fig. 2 is a side elevation of the same.

In the drawings, the letter A indicates the frame of the shedding mechanism, which frame can be attached to the loom-frame in any suitable well-known way. To the rock-shaft B are secured arms C, carrying the knife-bar D, which engages the hooks E on the jacks F, so as to actuate the jacks. When a jack F is moved by its needle G to carry the hook E out of reach of the knife-bar, then the said jack remains unactuated. The needles G are actuated by the pattern chain or cards H and pattern-cylinder I. The said cylinder is supported by arms K, engaged by pins L', extending from a supporting-frame L. The said frame L is slotted at one end at L⁹ to receive a pivot or support N, and the other end of the frame is joined to the lever Q by means of the connections O, having a link P. The connections O are adjustable by means of set-screws O', so that the link P can be set toward and from the fulcrum R of lever Q, thereby enabling the throw of frame L and needles G to be regulated. The lever Q is actuated by a pitman S, which is connected to the crank or eccentric T either directly or by being connected to a pitman U, the said pitman U being actuated by the said crank T. The pitman U actuates a lever V, which is fulcrumed to the frame A and connected by link W to arm X on shaft B, so that the said lever V actuates the rock-shaft. The pattern-cylinder I, when swinging against the

hook Y is given a turn, so that the pattern-chain is moved along. A spring-pressed stop Z prevents excessive or improper motion of the pattern-cylinder.

The pitmen S and U can be made adjustable in length in any suitable well-known way, as shown, for instance, in Fig. 1, where each pitman is represented as being made in two parts having a screw-threaded connection.

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

1. In a shedding mechanism, the combination, with the crank or eccentric T, the pitman S, connected therewith, and the lever Q, of a link P, a pattern-cylinder I, and a supporting-frame L for the said pattern-cylinder, the said supporting-frame being jointed at one end to a support or pivot and at its other end connected by the link P with the lever Q, substantially as described.

2. In a shedding mechanism, the combination of the pattern-cylinder I, the supporting-frame L, pivoted at one end, the crank or eccentric T, the extensible pitman S, connected therewith, the lever Q, connected with the pitman, and the link P, connecting said lever and frame and adjustable toward and from the fulcrum of said lever to adjust the movement of the pattern-cylinder, substantially as described.

3. In a shedding mechanism, the combination, with the crank or eccentric T, the pitmen S and U, and the levers Q and V, of a link P, a pattern-cylinder I, a supporting-frame L for the said pattern-cylinder, the said supporting-frame being connected by the link P to the lever Q, a rock-shaft B, a knife D, connected to the said rock-shaft, and connecting devices for conveying motion from the lever V to the rock-shaft B, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

EMIL WEIBEL.

Witnesses:

W. C. HAUFF,
E. F. KASTENHUBER.