

No. 628,822.

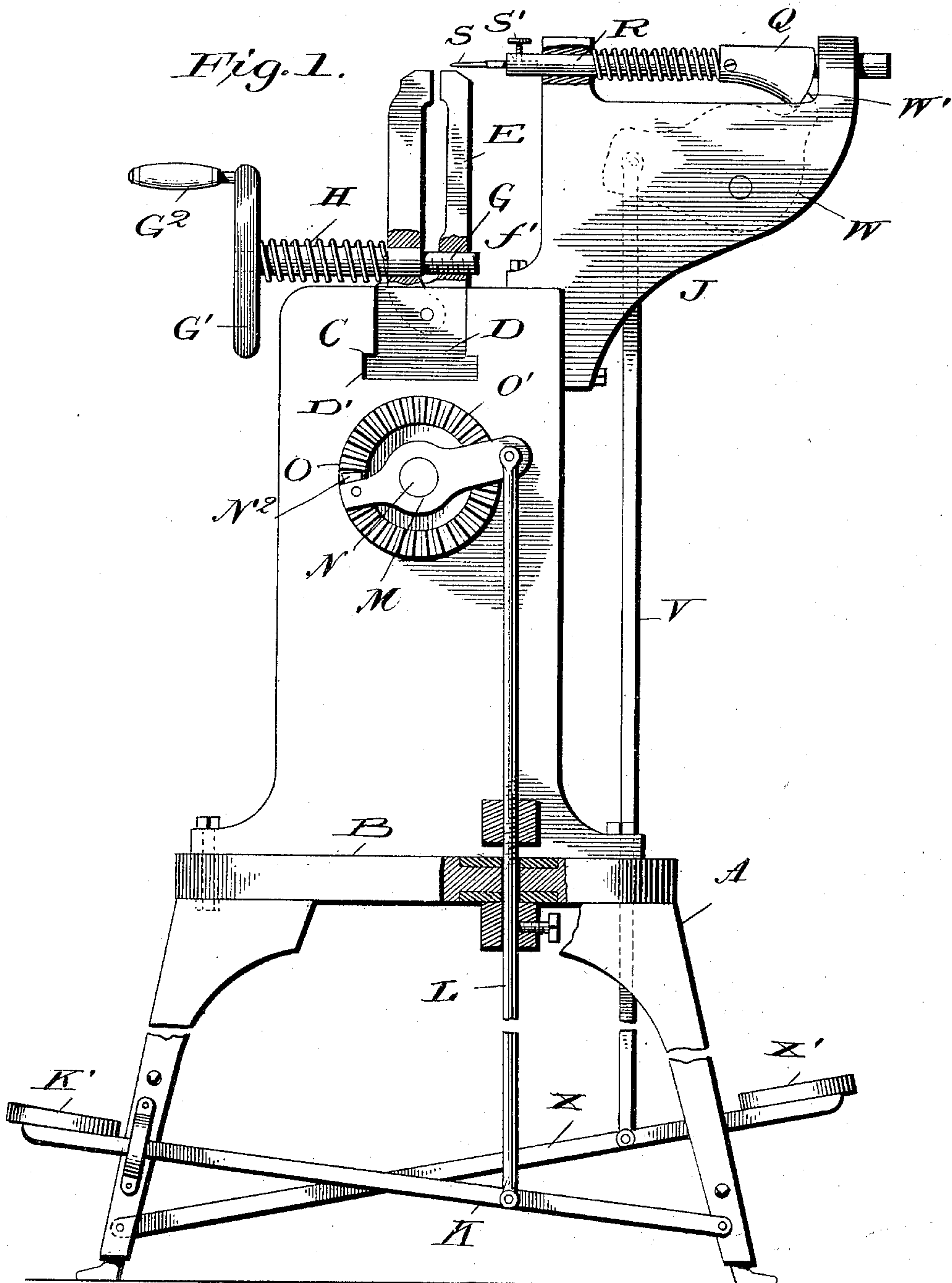
Patented July 11, 1899.

R. R. LEA.  
WORK HOLDER.

(Application filed Mar. 25, 1899.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses  
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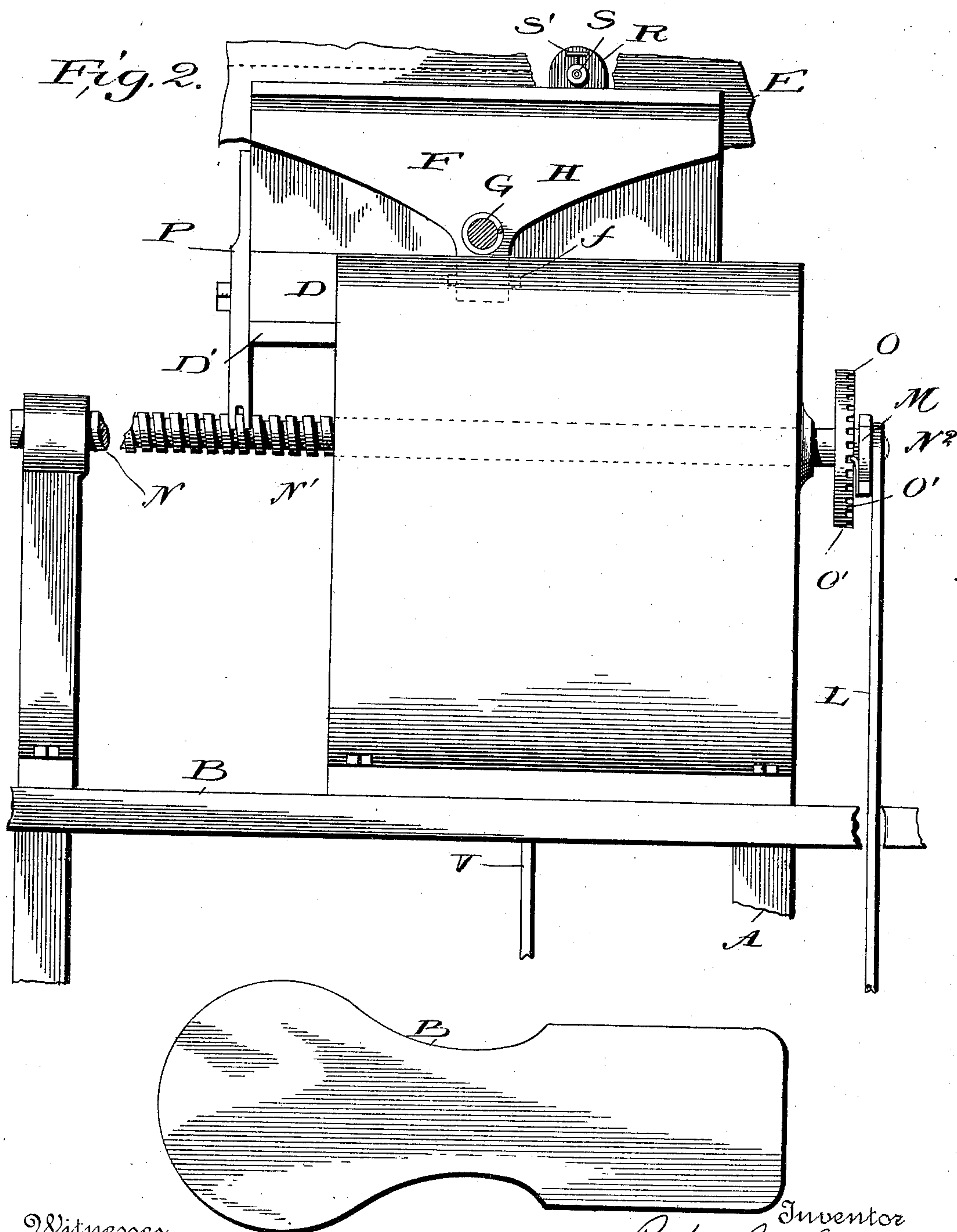
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# UNITED STATES PATENT OFFICE.

ROBERT REDCLIFF LEA, OF DWIGHT, NORTH DAKOTA.

## WORK-HOLDER.

SPECIFICATION forming part of Letters Patent No. 628,822, dated July 11, 1899.

Application filed March 25, 1899. Serial No. 710,458. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT REDCLIFF LEA, a citizen of the United States, residing at Dwight, in the county of Richland and State of North Dakota, have invented certain new and useful Improvements in Machines for Holding and Punching Articles being Sewed; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in machines designed for use in holding articles while being sewed, and especially to a mechanism of this character in which the strap or other article which is to be sewed is securely held by clamping-jaws, which are fed in a longitudinal direction after each stitch is taken, means being provided to feed the clamps by treadle-power.

To these ends and to such others as the invention may pertain the same consists, further, in the novel construction, combination, and adaptation of parts, as will be hereinafter more fully described and then specifically defined in the appended claim.

My invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings similar letters of reference indicate like parts throughout both views, in which—

Figure 1 is a side elevation of my machine, showing the feeding mechanism. Fig. 2 is a front elevation of the machine.

Reference now being had to the details of the drawings by letter, A designates the frame of the machine, which may be of any suitable construction, and mounted on the upper portion of this frame is a seat B, which may be adjustable, if preferred, so as to allow of its being raised and lowered. The upper end of the casting forming a part of the frame of the machine is recessed out, forming a guideway C, in which the block D, which is integral with one of the jaws E, works. The lower end of said block has extensions D', provided to retain the latter in place in its longi-

tudinal movements. Pivoted to the block; as at f, is the swinging jaw F of the clamping member and a suitable tightening-screw G, having threaded connections with the jaw E, and passing loosely through an aperture in the jaw F. At the end of said screw is a wheel G', with handle G<sup>2</sup> thereon, and interposed between said wheel and the swinging jaw and on the shank of said screw is a spring H, which serves to hold the jaw F yieldingly against the article which is designed to be held by the clamping-jaws.

Pivoted to the frame, at any suitable location, is a treadle K, having a foot-plate K', and pivoted to said treadle is the pitman-rod L, which is pivoted at its other or upper end to a rocking pawl carrying member M. Mounted in a horizontal position in the frame is a shaft N, which is threaded, as at N', and to the end of this shaft is pivoted said member M, being loosely held thereon, and keyed to the shaft is the wheel O, which has a series of teeth O' on its outer face, which teeth are designed to be engaged by the pawl N<sup>2</sup>, which latter is pivoted to the member M, provided to impart an intermittent rotary movement to the shaft in one direction.

Secured to one end of the block D is a feeding-dog P, the lower free and contracted end of which is adapted to engage in the grooves of the threaded portion N' of the shaft N, whereby as said shaft is rotated in one direction or another the jaw D may be worked backward and forward.

Secured to or integral with the frame is the extension J, in the arms of which is mounted the horizontally-movable shaft R, which carries a needle S, held in a recess in the end of said shaft by means of a set-screw S', and pivoted to said shaft R between the bearings of the shaft is a dog Q, and interposed between the latter and the arm of the extension J is a spring carried on the shaft R. Pivoted on the side of the frame is a rocking plate W, which has a shouldered portion W', designed to strike against the dog Q to drive the shaft R, carrying the needle, forward, and pivoted to said plate W is a pitman V, the lower end of which is in turn pivoted to a treadle X, having a foot-plate X', which is within convenient reach of the foot of the operator, who straddles the seat.



The operation of the machine is as follows:  
The straps or other articles to be sewed are  
clamped by the jaws, and the operator by de-  
pressing the treadle X will cause the needle  
5 carried by the shaft to be forced through the  
article being clamped, and when it is desired  
to advance the clamping-jaws a slight dis-  
tance the treadle K is depressed, which  
through its connections with the rocking  
10 plate N will cause the wheel O to rotate, and  
with it the shaft N, and the jaw, which has  
secured to it the stationary dog, will be ad-  
vanced a slight distance as said dog is ad-  
vanced, being driven by the threaded portion  
15 of the shaft N.

Having thus described my invention, what  
I claim to be new, and desire to secure by Let-  
ters Patent, is—

A device for holding articles while being

sewed, comprising in combination with the 20  
framework and sliding block, carrying clamp-  
ing-jaws working therein, a screw-shaft  
mounted in the frame, a crank-arm loosely  
mounted on said screw, a pivoted pawl car-  
ried at one end of said arm, and a pitman at 25  
its other end, a ratchet-wheel with a series of  
teeth on its outer face keyed to said screw,  
and engaged by said pawl, and the forked  
member secured to the sliding jaws and hav-  
ing its bifurcated end engaging over the 30  
thread of said screw, as set forth.

In testimony whereof I affix my signature  
in presence of two witnesses.

ROBERT REDCLIFF LEA.

Witnesses:

OSCAR SJOQUIST,  
ANTON BJÖRNSÉN.