

(No Model.)

A. E. JOHNSON & C. H. PORTER.
COMBINED PRESSER FOOT AND THREAD HOLDER FOR SEWING MACHINES.

No. 493,869.

Patented Mar. 21, 1893.

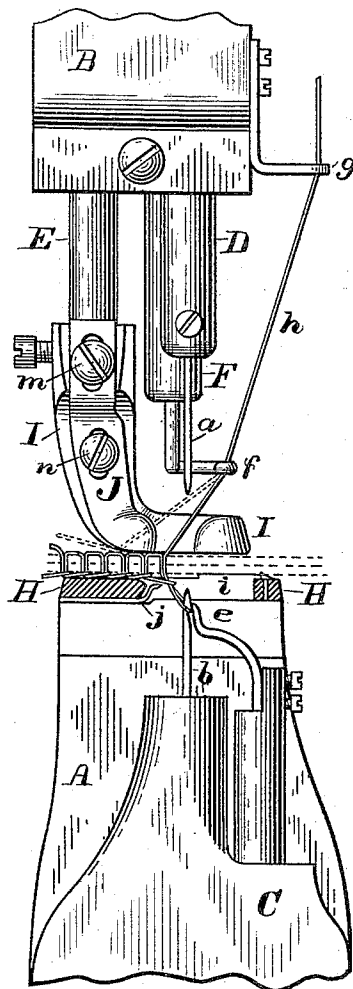


Fig. 4.

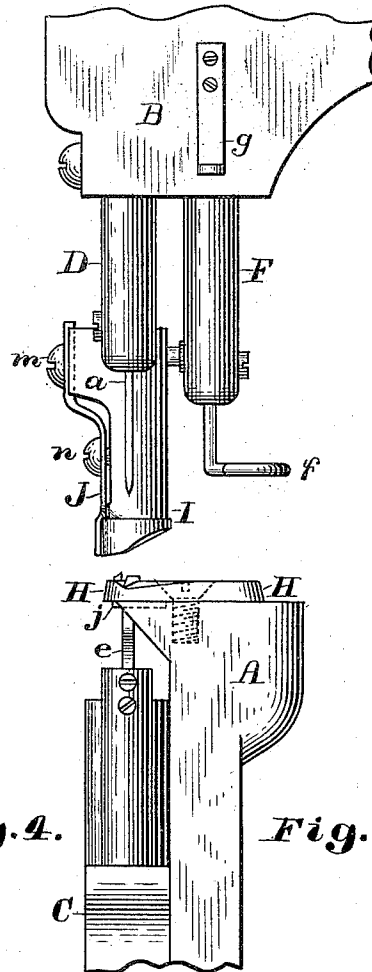


Fig. 5.

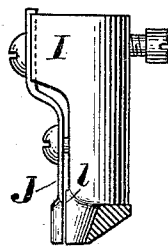


Fig. 2.

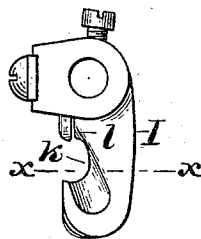


Fig. 1.

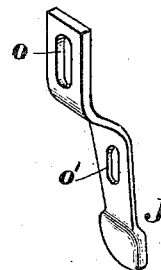


Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

ALBERT E. JOHNSON AND CYRUS HERBERT PORTER, OF BROCKTON,
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COMBINED PRESSER-FOOT AND THREAD-HOLDER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 493,869, dated March 21, 1893.

Application filed November 22, 1892. Serial No. 452,815. (No model.)

To all whom it may concern:

Be it known that we, ALBERT E. JOHNSON and CYRUS HERBERT PORTER, of Brockton, in the county of Plymouth and State of Massachusetts, have invented a new and useful Combined Presser-Foot and Thread-Holder for Sewing-Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

Our invention relates to a combined presser foot and thread holder for securely holding the severed end of the thread when the work is removed from the machine so that it shall be in proper position for commencing the next piece of work without special care or manipulation on the part of the operator, and it consists in certain novel features of construction, arrangement and combination of parts which will be readily understood by reference to the description of the drawings and to the claim hereinafter contained and in which our invention is clearly pointed out.

Figure 1 of the drawings is a plan of our combined presser foot and thread holder. Fig. 2 is a sectional elevation of the same the cutting plane being on line *x x* on Fig. 1. Fig. 3 is a perspective view of the thread holding spring detached from the presser foot, and Figs. 4 and 5 are respectively a front and side elevation of so much of a sewing machine, with our combined presser-foot and thread holder applied thereto, as is necessary to illustrate the application and operation of our invention.

We have illustrated our invention as applied to the "National" wax-thread sewing machine, in the accompanying drawings in which

A is the work supporting post. B is a portion of the goose neck, C the feed arm and needle bar carrier, D the awl bar, E the presser foot bar, *a* the awl, *b* the needle, *c* the cast-off, *f* the oscillating thread carrier for throwing the thread into the barb of the needle. F is the thread carrier shaft and *g* is a thread guide through which the thread *h* is led from the thread tension, not shown, all of which parts may be of any well known construction and operation.

H is the throat plate provided with a slot *i*

for the passage of the needle and awl, and secured to the post A and clamping the haft of the thread severing knife *j* between it and said post the cutting end of said knife being within said slot *i* just below the upper surface of said throat plate in a well known manner.

I is the presser foot secured to the bar E and movable vertically therewith in any well known manner. The presser foot I has its horizontal portion cut away at *k* to permit the passage of the awl and needle and beveled to permit a free draft of the thread as shown in Figs. 1 and 2. The front side of the heel of the presser-foot is made to project slightly beyond the front face of the upright portion above said heel as shown at *l* in Fig. 2.

J is a spring secured by the screw *m* to the upper portion of the presser foot and bearing at its lower end against the projection *l* of the presser-foot, the tension of which pressure may be regulated by means of the screw *n* as shown in Fig. 2.

The holes *o* and *o'* in the spring J through which the screws *m* and *n* respectively pass are slotted vertically so that the spring J may be adjusted vertically so that its lower end may bear with greater or less force upon the work being sewed as may be desired, said spring serving the double purpose of a thread holder and a re-inforce or extension of the bearing surface of the presser-foot.

The operation of our invention is as follows: It is common to sever the thread at the end of a line of stitching by moving the work to the rear when both awl and needle are removed from the work so as to bring the thread against the cutting edge of the knife *j*. With our invention applied to the machine, when the work is moved as above described to bring the thread below the work into contact with the knife *j* to sever the same the thread above the work is forced between the lower end portion of the spring J and the projection *l* on the presser-foot where it is held firmly in position to be engaged by the needle and drawn into the work at the next commencement of operations. This is a great advantage in saving the time and labor of the operator, as without the spring J the thread when released from the work is very likely to be thrown so

much out of position as to make it necessary for the operator to find the end of the thread place it in position and hold it until seized by the needle.

5 What we claim as new, and desire to secure by Letters Patent of the United States, is—

The combination of the presser-foot I; and the spring jaw J adjustably secured to said presser foot with its lower end in contact with,
10 and extending to the bottom of the heel portion of the presser-foot and adapted thereby to serve as a thread holder and a reinforce or

extension of the bearing surface for holding the work.

In testimony whereof we have signed our names to this specification, in the presence of two subscribing witnesses, on this 19th day of November, A. D. 1892.

ALBERT E. JOHNSON.
CYRUS HERBERT PORTER.

Witnesses:

N. C. LOMBARD,
GEO. A. SEWALL.