

E. T. THOMAS & A. SCHENCK.

BELT APPLYING DEVICE FOR SEWING AND OTHER MACHINES.

No. 324,432.

Patented Aug. 18, 1885.

Fig. 1.

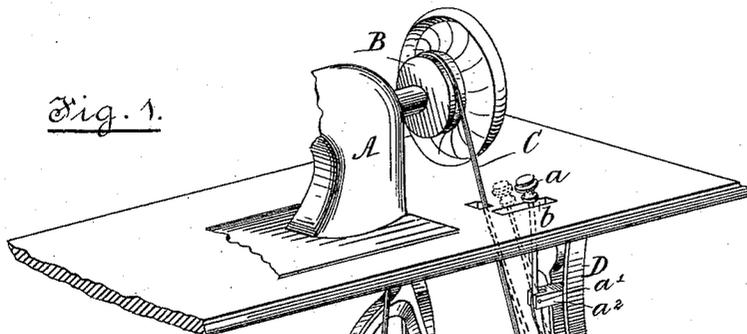


Fig. 2.

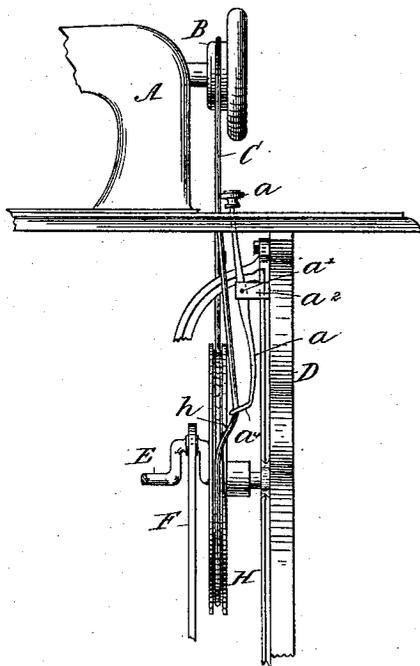
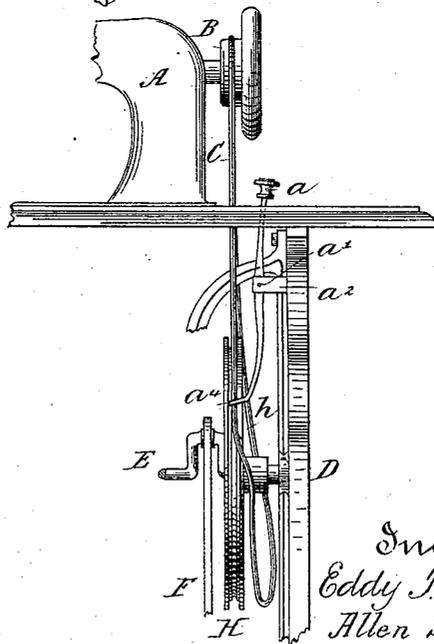


Fig. 3.



Witnesses:

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Fig. 4.

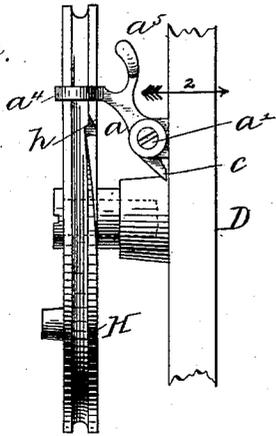


Fig. 5.

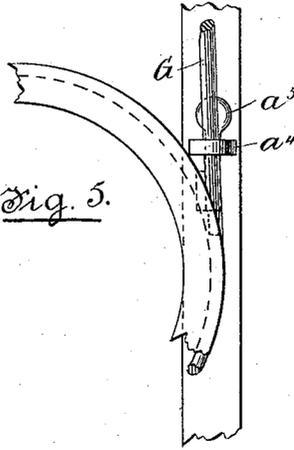


Fig. 7.

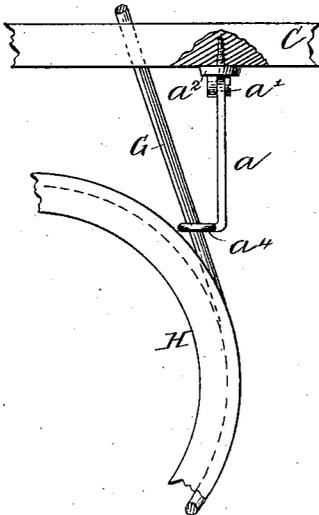
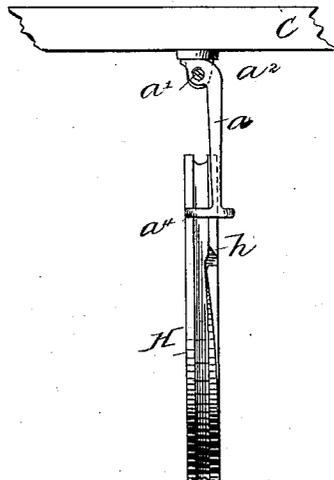


Fig. 6.



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# UNITED STATES PATENT OFFICE.

EDDY T. THOMAS AND ALLEN SCHENCK, OF NEW YORK, N. Y.

## BELT-APPLYING DEVICE FOR SEWING AND OTHER MACHINES.

SPECIFICATION forming part of Letters Patent No. 324,432, dated August 18, 1885.

Application filed May 20, 1885. (No model.)

To all whom it may concern:

Be it known that we, EDDY T. THOMAS and ALLEN SCHENCK, of New York, county and State of New York, have invented an Improvement in Belt-Applying Devices for Sewing and other Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object to provide a means by which a belt may be readily removed from or be applied to a belt-wheel.

Prior to our invention herein shown a belt-wheel has been notched to aid in applying a belt thereto; but the belt when to be applied has had to be engaged by hand.

15 In accordance with our invention the belt is extended through a guide which, by the action of gravity, normally stands in such position with relation to the wheel as to enable a hook thereon to engage and thereafter cause the belt to be applied to the belt-wheel.

20 Preferably our improved belt-controller has its upper end extended above the table on which the machine stands, so as to be in easy reach of the operator and near the machine-pulley.

25 Figure 1 represents part of a sewing-machine, its table and driving mechanism, with our improvement added, the full and dotted lines showing the belt-controller and belt in two positions. Fig. 2 is a side elevation of part of a sewing-machine and its table, the belt-controller being shown as moved into the dotted-line position, Fig. 1, preparatory to throwing the belt from the belt-wheel. Fig. 3 is a similar view showing the belt-pulley off the belt-wheel and the controller in its normal position. Fig. 4 is a modification wherein the belt-controller does not extend above the table; Fig. 5, a view of Fig. 4 from the left, part of the belt being added. Fig. 6 shows another modification, viewed from the front side of the machine; and Fig. 7, a view of Fig. 6 from the left, part of the belt being shown.

30 The sewing-machine A, the pulley B on its main shaft, the table C, legs or frame D, crank-shaft E, link F to be attached to the treadle, and the belt G, are and may be all as usual. The belt-wheel H, having the usual peripheral

groove, is notched at one side, leaving a hook-shaped point, *h*.

Referring to Figs. 1 to 3, the belt-controller *a*, made as a lever of the first order, has its fulcrum at *a'* in ears *a''*, secured, as herein shown, to the leg D of the table, the upper end of the controller being extended through a slot, *b*, in the table, and having a suitable knob or handle applied to it, the upper end of the controller being thus placed in convenient position to be engaged by the operator without putting her hand under the table when it is desired to remove the belt from the belt-wheel, her hand being during such operation close to the belt and to the hand part or rim of the pulley B, so that the operator may, if desired, immediately put her hand with but a slight movement upon the said pulley after moving the controller. The belt-controller will preferably be so pivoted that its lower end will be the heaviest, so that normally the belt-fork *a'* at its lower end in line with the periphery of the belt-wheel and its circumferential groove, as shown by full lines, Figs. 1 and 3; but when moved by the operator into the position shown by dotted lines, Fig. 1, and full lines, Fig. 2, the belt G will be bent or pulled aside, so that the point or hook *h*, left by notching the wheel at its edge, will catch the belt at one side, as shown in Fig. 2, and the further rotation of the belt-wheel will throw the belt off, as in Fig. 3.

35 In Figs. 4 and 5 the belt-controller *a* is so shaped as to be heavier above its fulcrum *a'* and the belt-fork *a'*. A loop or eye and the portion *a''* to be engaged by hand when it is desired to turn the controller to replace the belt from the wheel are both above the said fulcrum, a stop, *c*, controlling the normal position of the belt-controller, which is the position shown in Figs. 4 and 5, it being held by gravity alone. When turned in the direction of the arrow 2, the belt-fork will bend the belt aside, as described of Fig. 2.

40 In Figs. 6 and 7 the belt-controller *a* has its fulcrum at *a'* on an ear or stand, *a''*, secured to the under side of the table C, the belt-fork *a'* being normally kept by gravity opposite the edge of the belt-wheel.

We claim—

1. The belt-wheel made at one edge to form a hook or point, and the table and its frame or legs, combined with the belt-controller, one end of which is extended above the table to be in easy reach of the operator, substantially as described.

2. The table, the legs or stand D, and the notched belt-wheel and its shaft, combined with a belt-controller having its point or fulcrum arranged substantially as described, whereby the belt-controller, obeying the law of gravity, normally stands with its belt-fork opposite and in line with the groove of the belt-wheel, substantially as described.

3. The table or legs supporting a pivoted band-controller, combined with the belt-wheel, made at one edge to form a hook or point, as and for the purpose specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

EDDY T. THOMAS.  
ALLEN SCHENCK.

Witnesses:

BERNARD J. KELLY,  
JAS. AULD.