

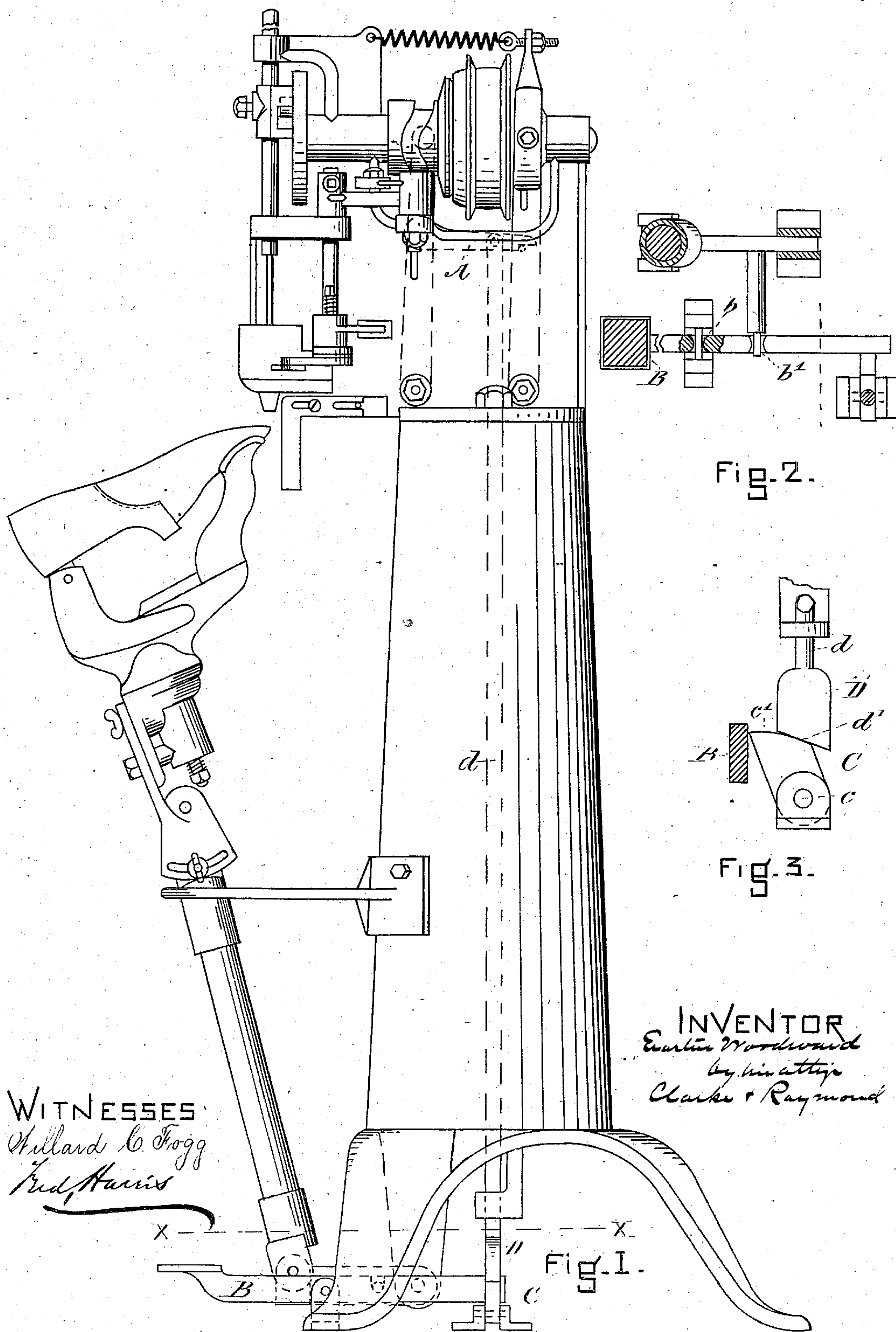
(No Model.)

E. WOODWARD.

TACKING MACHINE.

No. 254,756.

Patented Mar. 7, 1882.



WITNESSES
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UNITED STATES PATENT OFFICE.

ERASTUS WOODWARD, OF SOMERVILLE, MASS., ASSIGNOR TO THE COPELAND TACKING AND LASTING COMPANY, OF PATERSON, N. J.

TACKING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 254,756, dated March 7, 1882.

Application filed December 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, ERASTUS WOODWARD, of Somerville, in the county of Middlesex and State of Massachusetts, a citizen of the United States, have invented a certain new and useful Improvement in Tacking-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature, in which—

Figure 1 is a side elevation of a machine showing my invention. Fig. 2 is a plan view of a portion thereof below the line *xx* of Fig. 1; and Fig. 3 is a view, part in section and part in elevation, of a detail in construction hereinafter referred to.

This invention is an improvement upon those described in my Letters Patent No. 246,437 and No. 248,544. It consists in devices for operating the start-and-stop-motion mechanism by a treadle, which is also used for presenting the work to the nozzle of the fastening-driving device. The start-and-stop-motion mechanism is like that described in my application for Letters Patent of the United States filed November 16, 1881; but instead of using an independent treadle and connecting-rod for actuating the same, as therein described, I hang the jack-treadle in such a way that it can be moved sidewise at any time, and arrange adjacent thereto, in a position to be operated by said sidewise movement of the treadle, a device connected with the start-and-stop-motion mechanism and adapted to be operated by said sidewise motion.

A is the latch, which corresponds to the latch of said pending application. B is the jack-treadle, which is shown in plan in Fig. 2. It is pivoted and connected with the jack-support substantially as described in the Patent No. 248,544, with the exception that the pivotal holes *b b'* are rounded from their center outwardly to allow the treadle to be swung laterally as well as moved vertically.

Upon one side of the treadle, near its end, I have arranged the arm or block C, which is pivoted at its lower end to a suitable support, *c*, and has its upper surface, *c'*, rounded or inclined, substantially as shown. It is preferably so weighted as to fall by gravity against

the side of the lever, as represented in Fig. 3; but there may be a spring used for automatically returning it to that position, if desired. Arranged immediately above this block C is another block, D, which is fastened to or formed on the lower end of the connecting-rod *d*. This block also is rounded or inclined upon its lower surface, *d'*, and it or the rod is so supported that after having an upward vertical movement imparted to it, as hereinafter described, it returns to its normal position, substantially as shown in Fig. 3—that is, over the block C in a position to be moved upward upon the movement of said block from an inclined to a vertical position.

The rod *d* is connected at its upper end by means of a pin, or in any other desirable way, with the latch A.

In operation the operator, by means of the treadle B, presents the work to the nozzle of the fastening-driving device, and then, still holding the work in that position, by a sidewise movement of the treadle throws in the block C, thereby lifting the connecting-rod *d* and actuating the start-and-stop-motion mechanism.

Of course this method of operating the start-and-stop-motion mechanism is not confined to the specific start-and-stop-motion devices herein described, but may be used for actuating any other start-and-stop-motion mechanism in a machine for driving fastenings or a start-motion mechanism simply. And I wish it understood that I mean by a start-motion mechanism any device or devices which can be operated to set the machine in motion.

Of course the device herein described can be used in connection with such start-motion mechanism only, or in a combined start-and-stop-motion mechanism.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of a jack and last adapted to be operated by a foot-treadle to present the work to the nozzle of the fastening-driving device, said fastening-driving device, and its start or start-and-stop motion mechanism, the said treadle having the movements, substantially as indicated, and mechanism, substan-

tially as specified, for connecting the treadle with the start or start and stop motion mechanism, whereby the work is presented to the nozzle of the fastening-driving device and held
5 by the foot-treadle, and by an additional sidewise movement thereof the fastening-driving mechanism is put in operation, all substantially as and for the purposes described.

2. The combination of a fastening-driving
10 device, its start or start-and-stop motion mech-

anism, the treadle B, and intermediate mechanism for connecting the treadle with the start or start-and-stop motion mechanism, adapted to be actuated by the sidewise movement of the treadle, all substantially as and for the 15 purposes described.

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Witnesses:

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