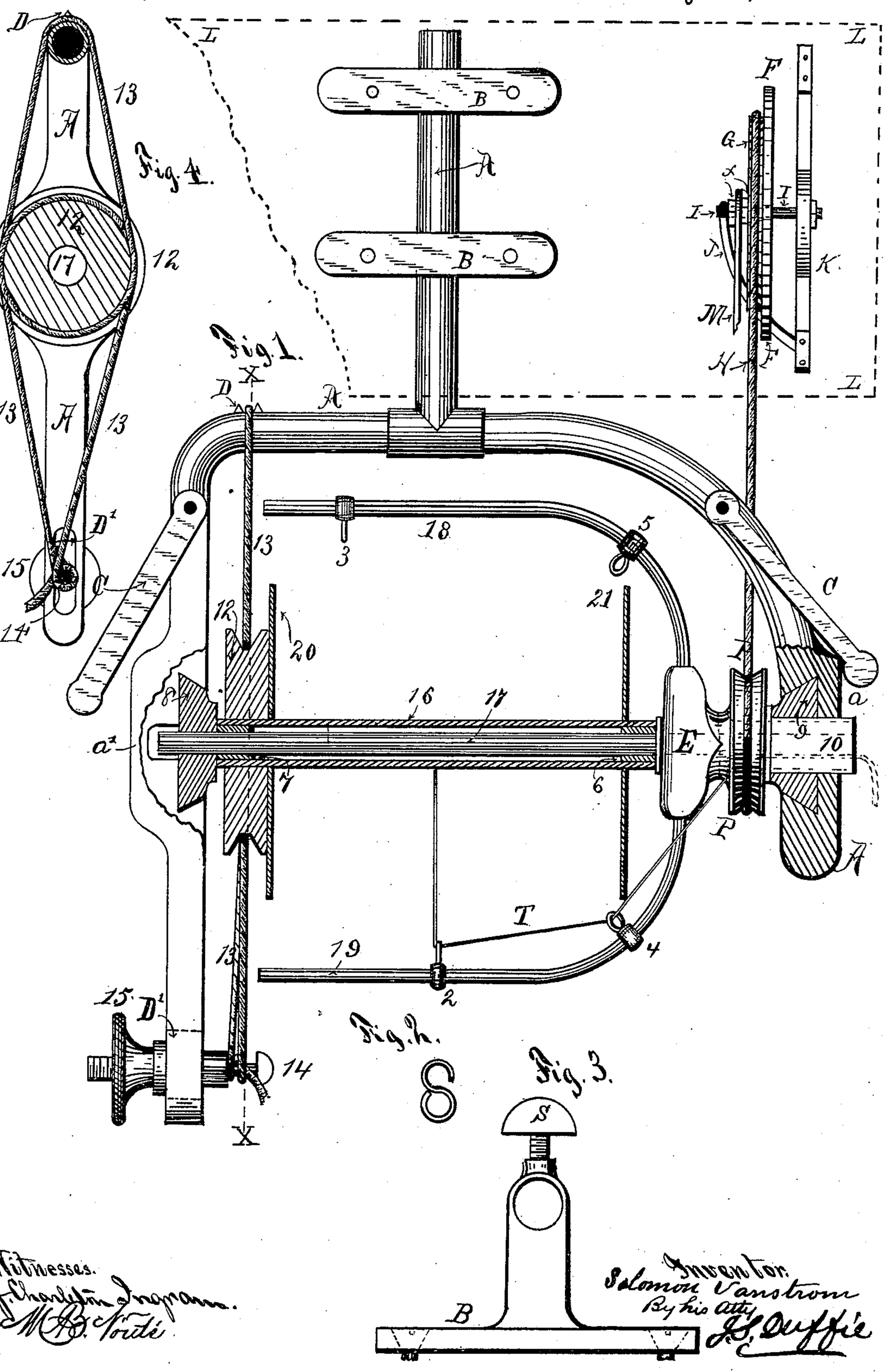
(No Model.)

S. VANSTROM.

SPINNING ATTACHMENT FOR SEWING MACHINES.

No. 345,341. Patented July 13, 1886.



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SALOMON VANSTROM, OF CANBY, MINNESOTA.

SPINNING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 345,341, dated July 13, 1886.

Application filed January 16, 1886. Serial No. 188,811. (No model.)

To all whom it may concern:

Be it known that I, SALOMON VANSTROM, a citizen of the United States, residing at Canby, in the county of Yellow Medicine and State of Minnesota, have invented certain new and useful Improvements in Spinning Attachments for Sewing-Machines; 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 and figures of reference marked thereon, which form a part of this specification.

My invention has relation to spinning attachments for sewing-machines; and it consists in the novel construction and arrangement of its parts, as hereinafter set forth.

In the accompanying drawings, Figure 1 is a part top plan view of my invention, partly in section. Fig. 2 is a view of one of the eyes. Fig. 3 is a side view of one of the brackets that support the attachment. Fig. 4 is a sectional view cut through Fig. 1 on the line X *x*.

Similar figures and letters refer to similar parts throughout the several views.

I make a fork-shaped frame, A A A, which supports the spinning apparatus. I also have two brackets, B B, which are secured to the under side of the sewing-machine table (indicated by dotted lines L) by means of screws or other suitable means. Through the said brackets the fork-shaped frame slides, and may be adjusted and secured in position by set-screws S.

The spinning apparatus consists of the hollow cylinder 10, having on either side an opening for the thread T to pass through; the spindle 17; the pulley P rigidly secured on the hollow cylinder 10. There is also rigidly secured to said hollow cylinder and spindle a socket, E. In this socket E are secured two wings, 18 19. On the wing 18 are fitted S-shaped eyes 3 and 5, and on the wing 19 S-shaped eyes 2 and 4, for the purpose of bearing the thread T. The eyes 4 and 5 are fixed; but the eyes 2 and 3 are movable, and their position on the said wings may be changed at the will of the operator. A spool consisting of the hollow cylinder 16 and flanges 20 and 21 fits over the spindle 17, and runs loosely on the same. I fit around said spindle 17 leather bushings 6 and 7, which gives the spool two fine bearings on said spindle. I also provide two blocks of leather, 8 and 9, as bearings for the ends of the spindle 10 and 17. I also provide two springs, C C, the upper ends of which are pivoted to the upper face of the frame A, while the lower ends rest on the leather bearings 8 and 9, and keep them in place. Whenever desirable, the said wings, spindle, spool, and bearings may be lifted out of the frame A after turning the springs C C away from the said bearings, and may be put back and secured in place again by turning said springs over said bearings.

A grooved pulley, 12, is put on the end of the hollow cylinder 16 and against the outer face of the flange 20, and is used for the purpose of checking the motion of the spool. In order to do this, I pass a cord, 13, around the frame A at the point indicated by the letter D, and let it touch the pulley 12 on both sides and tie the cord around the neck of the adjustable cleat 14. By means of a set-screw, 15, and slot D′ in frame A the tension of said cord may be varied at pleasure.

F represents the usual balance-wheel of a sewing-machine, having attached thereto or made therewith the band-wheel G, journaled on a stationary shaft, I, secured in the brace K.

The spinning attachment is run by a band, H, passing around the pulley P of the attachment, and thence around the band-wheel G of the sewing-machine.

I operate the spinning attachment in the same manner that a sewing-machine is operated. The band-wheel G may be caused to revolve by means of the treadle and pitman operated by the feet, or it may be rotated by any other means. When it does rotate, it puts in operation the spinning attachment by the means of the band H and the pulley P.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the fork-shaped frame A, springs C, spindle 10 and 17, bearing the arms 18 and 19 and eyes 2, 3, 4, and 5,

said spindle being journaled in leather bearings 8 and 9, the same being operated by a band extending from the sewing-machine around the pulley P, all substantially as shown and described, and for the purposes set forth.

2. The combination of the frame A, spindle 10 17, bearing the fixed pulley P, wings 18 and 19, secured in socket E, eyes 2, 3, 4, and 5, fitted on said wings, the spool consisting of the hollow cylinder 16 and flanges 20 and 21, grooved pulley 12, fitting on said hollow cylinder and against the outer face of flange 20, cord 13, passing over one arm of the frame and thence over said pulley and having its ends secure in slot D′ of said frame, substantially as shown and described, and for the purposes set forth.

3. The combination of the grooved pulley 12, secured on the spool and against the outer face of flange 20, cord 13, adjustable cleat 14, and frame A, substantially as shown and described, and for the purposes set forth.

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

SALOMON VANSTROM.

Witnesses:

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