W. S. HADAWAY.

Waxing Device for Sewing-Machines.

No. 208,679. Patented Oct. 8, 1878.

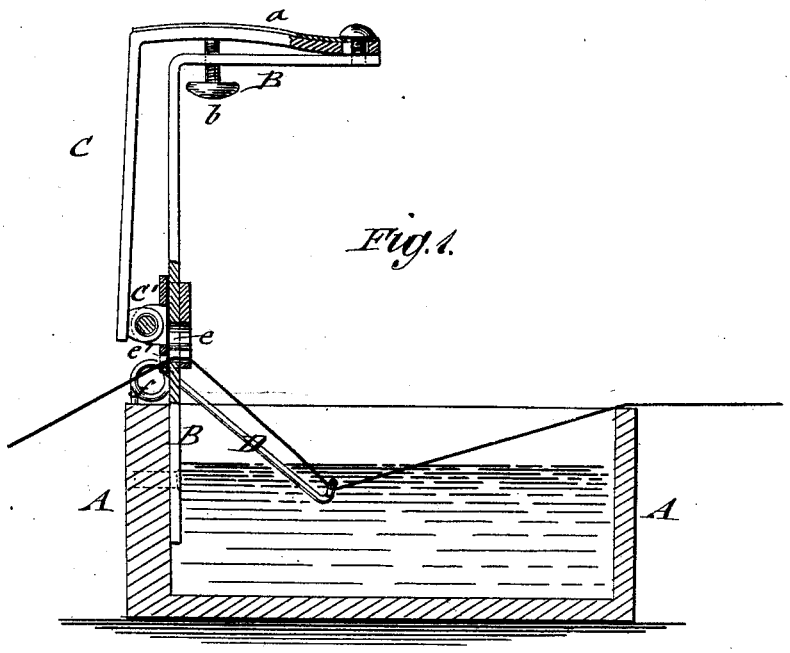

Fig. 1.

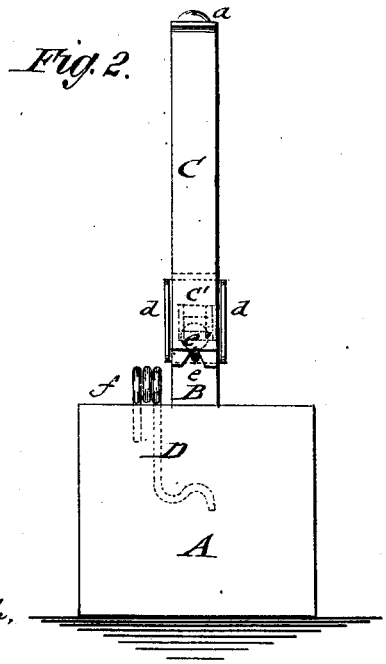

Fig. 2.

WITNESSES:

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WILLIAM S. HADAWAY, OF CHILTONVILLE, MASSACHUSETTS.

IMPROVEMENT IN WAXING DEVICES FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **208,679**, dated October 8, 1878; application filed January 3, 1878.

To all whom it may concern:

Be it known that I, WILLIAM S. HADAWAY, of Chiltonville, in the county of Plymouth and State of Massachusetts, have invented a new and Improved Thread-Waxer for Sewing-Machines, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section of my improved thread-waxing device for sewing-machines, and Fig. 2 is an end elevation of the same.

Similar letters of reference indicate corresponding parts.

This invention is intended to furnish for power-operated sewing-machines an improved thread-waxing device that can be easily adjusted for differently-sized threads, and that may be easily regulated for the quantity of wax to be used, so as to save a great portion of the wax hitherto wasted.

The wax-stripping parts of the present waxing devices are made of rubber disks placed on a pin and adjusted by a screw. They are objectionable, as the thread wears them out very soon, especially when used in the sewing-machines that are driven by steam and worked at a rapid rate of speed. The wearing out of the disks requires constant adjustment, and causes the loss of a large quantity of wax that daubs the machine and makes it disagreeable for the operator.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

Referring to the drawing, A represents a tank or receptacle for the liquid wax, to one end of which is attached an upright post or plate, B, that carries at its upper horizontally-bent end an angular arm, C, that is attached to the end of post B and acted upon by a band or other spring, *a*. A set-screw, *b*, bears on the upper part of the arm C, so as to raise or lower the bottom end, as required.

To the lower end of arm C is hinged a plate, C′, that slides along the upright post B, being guided by side flanges, *d*, of the same.

The post B has a perforation, *e*, with V-shaped lower part for the passage of the thread, the sliding plate C′ having a similar V-shaped but inverted notch or recess, *e*′, that forms, jointly with the V-shaped notch *b*, an opening for the thread. This opening may be readily adjusted for any size of thread by the set-screw *b*, and also the quantity of wax regulated by the notched plates, so that only a quantity sufficient to wax the thread may pass through the opening with the same.

The sliding plate C′ secures an even bearing on the post B as well as on the thread, and allows, also, knots and bunches to pass through without difficulty.

A wire spring-arm, D, is attached to the tank A and bent down so as to engage by its hook-shaped end the thread, and immerse the same into the liquid wax.

A coil, *f*, bent at the upper part of the depressor, imparts the required spring to the arm.

The thread, in passing through the tank and the notched plates, takes up a uniform quantity of wax, prevents the daubing of the work and of the machine, and admits a cleaner working of the sewing-machine by the operator.

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

In a thread-waxing device, the combination of tank A, upright post B, adjustable and spring-acted arm C, having hinged slide-plate C′, the post B, and slide-plate C′, having V-shaped recesses for passage of thread, substantially as specified.

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Witnesses:

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