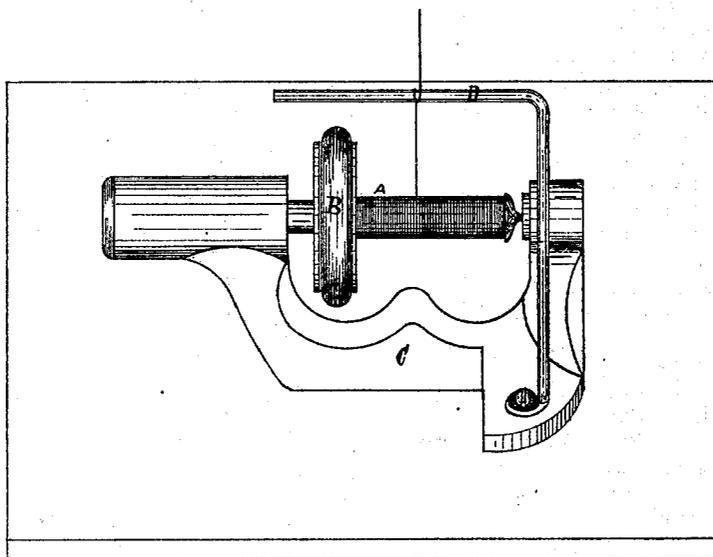


George & Sheldon.
Bobbin Winding Attachment To
Sewing Machine

No. 122,858.

Patented Jan. 16, 1872.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE G. SHELDON, OF CHICAGO, ILLINOIS, ASSIGNOR TO HIMSELF AND
NELSON C. GRIDLEY, OF SAME PLACE.

IMPROVEMENT IN METHODS OF CONDUCTING THREAD OVER THE GUIDE-WIRE OF BOBBIN-WINDERS
FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 122,858, dated January 16, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, GEORGE G. SHELDON, of Chicago, county of Cook and State of Illinois, have invented a new and useful improvement in the method of conducting the thread over and around the guide-wire of bobbin-winding attachments to sewing-machines; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which the figure represents a side elevation of the bobbin and parts employed in securing the same, showing the relative position of the thread while in process of being wound upon the bobbin.

The object of my invention is to evenly wind the thread upon the bobbin; and to that end consists in a peculiar manner of looping the thread over and around the guide-wire, so as to bring that portion of the thread passing from the wire to the bobbin in the center of the loop upon the wire, whereby the same is carried alternately backward and forward longitudinally with the bobbin by the rotation of the same, and thus evenly wound thereon.

In the drawing, A is the bobbin, and B the wheel employed in rotating the same. C is a metal frame, within and to which the wheel and bobbin are pivoted, and which frame is secured to the platform of the machine in a manner which brings the periphery of the said wheel in contact with and against the periphery of the wheel operating the needle-bar, by which

means the requisite rotary motion is imparted to the bobbin in the usual manner. Firmly affixed to the lower portion of frame C, near the end of the bobbin, opposite to wheel B, is a metal wire, D, which extends upward to a point slightly above the periphery of the wheel, and is bent at said point to a horizontal position and extending longitudinally with the bobbin and parallel with the line of its axis, to or slightly beyond the wheel. The thread to be wound around the bobbin is looped around wire D, as shown in the drawing, allowing the end of the thread extending to the bobbin to pass through the center of the loop, by which means the tension of the thread from the spool keeps the same at a right angle with the bobbin, the loop upon the wire being moved alternately backward and forward by the action of the thread as it is wound around the bobbin.

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

The method, hereinabove described, of conducting the thread over a wire, constructed and arranged as described, and looping it around itself, in order that it may wind evenly and with the requisite tension on the bobbin, as set forth.

The foregoing specification of my invention signed by me this 9th day of March, A. D. 1871.

GEORGE G. SHELDON.

Witnesses:

N. C. GRIDLEY,
N. H. SHERBURNE.

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