O. FARRAR.

Sewing-Machine.

No. 161,399. Patented March 30, 1875.

Fig. 1.

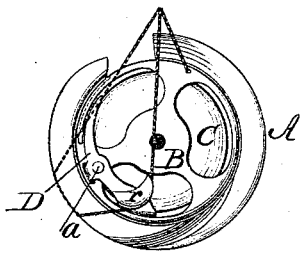
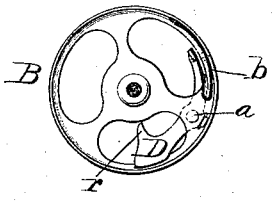


Fig. 2.



Witnesses,

L. Hailer.
Will H. Dodge

Inventor,

Oscar Farrar
By his attys.
Dodge & Son

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

OSCAR FARRAR, OF RINDGE, NEW HAMPSHIRE.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. **161,399**, dated March 30, 1875; application filed November 7, 1874.

To all whom it may concern:

Be it known that I, OSCAR FARRAR, of Rindge, in the county of Cheshire and State of New Hampshire, have invented certain Improvements in Sewing-Machines, of which the following is a specification:

This invention relates to an improvement on the device for which Letters Patent were granted to me on the 23d day of February, 1873, No. 136,314; and it consists in the use of a brake to retain the bobbin in its case and hold it from turning, the brake being operated and the bobbin thereby released at the proper time by the action of the needle-thread upon the loop-check on the case.

Figure 1 represents a face view of a rotating hook, a bobbin-case, and a bobbin, constructed and arranged in the same manner as in my patent, the case being provided, however, with my improved brake. Fig. 2 represents an inside face view of the case with the brake.

A represents the hook, which is the same as, or similar to, that used in the well-known Wheeler & Wilson machine; B, the bobbin-case, and C the bobbin. D represents the brake forming the subject of the present invention. It consists simply of a thin metal bar, pivoted, at its middle, to the outside of the case, its upper end extending inward, and bearing on the edge of the bobbin, and its lower end being provided with a projecting horn or loop-check, *r*, which answers the same purpose as the loop-check on the case as in my patent mentioned above. A spring, *b*, is secured in the bobbin-case, and forces the end of the brake-bar D down upon the edge of the bobbin, which is thereby held from turning in the case, and also prevented from rattling or playing sidewise therein. By raising the lower end of the brake-bar D, having the loop-check upon it, the upper end is raised from the bobbin, which is thereby released and permitted to turn freely in the case. When the machine is in operation the brake bears upon and holds the bobbin during the formation of each and every stitch until the needle-thread loop is cast over the case by the hook and drawn around against the check *r*. When this occurs the loop, acting on the check, raises the brake and releases the bobbin, which is permitted to turn freely until the loop is drawn off from the check. While the loop is acting upon the check to raise the brake it also, at the same time, gives a slight rotary motion to the case, as in my patented device, so that the use of the brake does not interfere with the ordinary action of the case.

By the use of the brake I prevent the bobbin from turning in the case, except when the needle-thread loop is drawing on the loop-check, and also hold the bobbin from rattling in or slipping sidewise from the case. By holding the bobbin from turning when the needle-thread is not drawing on the loop-check I prevent the bobbin-thread from drawing off, except when the loop is drawing on the check and turning the case forward, and thus I render the action of my patented contrivance much more certain and satisfactory. When the brake is used on the bobbin I am enabled to carry the bobbin-thread out directly through the upper part of the case, as shown, instead of first passing it down through the bottom, as heretofore. It is obvious that the form and arrangement of the brake may be varied as desired, provided the bobbin is held by it, and that it is released at the proper time by the direct or indirect action of the needle-thread. It is also obvious that the form of the case may be varied as desired, provided it is made to operate in substantially the same manner.

Having thus described my invention, what I claim is—

In combination with a bobbin-case, B, a bobbin, C, and a spring, *b*, a pivoted brake, D, bearing at one end on the bobbin, and provided at the opposite end with a loop-check, *r*, substantially as shown and described.

OSCAR FARRAR.

Witnesses:

WM. H. MINNIX,

C. P. WEBSTER.