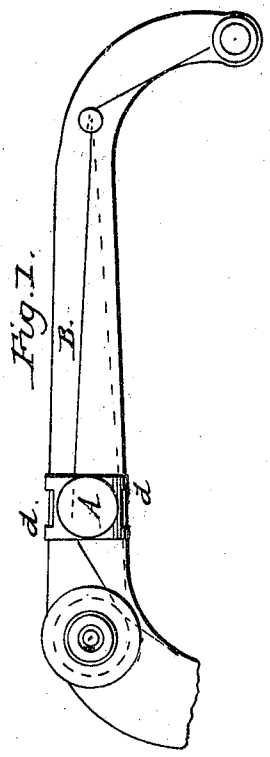
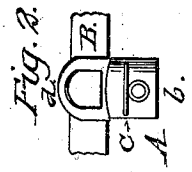
O. R. HYDE.

Device for Oiling Thread in Sewing Machines.

No. 40,484. Patented Nov. 3, 1863.





Witness:
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UNITED STATES PATENT OFFICE.

O. R. HYDE, OF EAST CLEVELAND, OHIO.

IMPROVEMENT IN DEVICES FOR OILING THREAD IN SEWING-MACHINES.

Specification forming part of Letters Patent No. **40,484**, dated November 3, 1863.

To all whom it may concern:

Be it known that I, O. R. HYDE, of East Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and Improved Device for Oiling or Greasing the Thread in Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of the needle-arm of a sewing-machine with my device attached. Fig. 2 is a top view of the same. Fig. 3 is a transverse vertical section of the same.

Similar letters of reference indicate corresponding parts in the several figures.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is the box, represented of cylindrical form, and arranged in a horizontal position on one side of the needle-arm B. The opening *a* for the reception of the sponge C is at the end next the needle-arm, and is large enough to allow the sponge to be crowded through it, but not large enough to permit it to slip out easily when the box is detached from the needle-arm. The sponge is large enough to fill the box compactly. The oil-hole *b* is in the top of the box, and is just large enough to permit a drop of oil or other lubricating material to be introduced from the spout or feeder of an oil-can, the quantity required being very small, as the thread is not to be saturated, but merely lubricated slightly on the surface. The slot *c* for the introduction of the thread is also made in the top of the box, and is just wide enough for the passage of the thread through it without friction against its sides, and it may extend rather more than one-third or nearly half around the box.

The box may be made of light sheet metal, with soldered joints, and the piece which forms the end next the needle-arm, and in which the opening *a* is formed, is made long enough to form the two lips *d d* of the clasp, by which to attach it to the needle-arm, the said lips being formed to fit snugly to the larger back portion of the needle-bar, and the opening *e* between their extremities being wide enough to permit the clasp to pass over the smaller front portion of the needle-arm by holding the said opening in a downward position. When placed on the smaller part of the arm the clasp is turned round far enough in the proper direction to bring the box on the proper side of the arm, and then pushed back along the arm to a point where it fits tightly and where it will hold the box securely. When the box has been so applied to the arm it will be understood that the hole *a* is closed by the arm, so that it is impossible for the sponge to get out. The position of the box upon the arm should be such that when it is not desired to lubricate the thread the latter may pass under the box without touching or bearing hard against it, as shown by the dotted red line in Fig. 1.

When it is desirable, owing to the nature of the work or material to be operated upon, to lubricate the thread, it is, without unthreading the needle, simply passed over the box and into the slot *c*, and by its tension it indents itself into the sponge, and as it is drawn from the spool toward the needle in working it is lubricated.

Other materials, as wool, might be substituted for the sponge in the box A as a means of containing the oil or lubricating material.

I do not claim broadly the passing of the sewing-machine thread through or over an oil-containing vessel or substance; but,

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

A sewing-machine oil-sponge box, made, as herein shown and described, with an opening, *a*, to receive the sponge, and clamps *d d*, to bind the box against the needle-arm and close the said opening, all as set forth.

O. R. HYDE.

Witnesses:

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