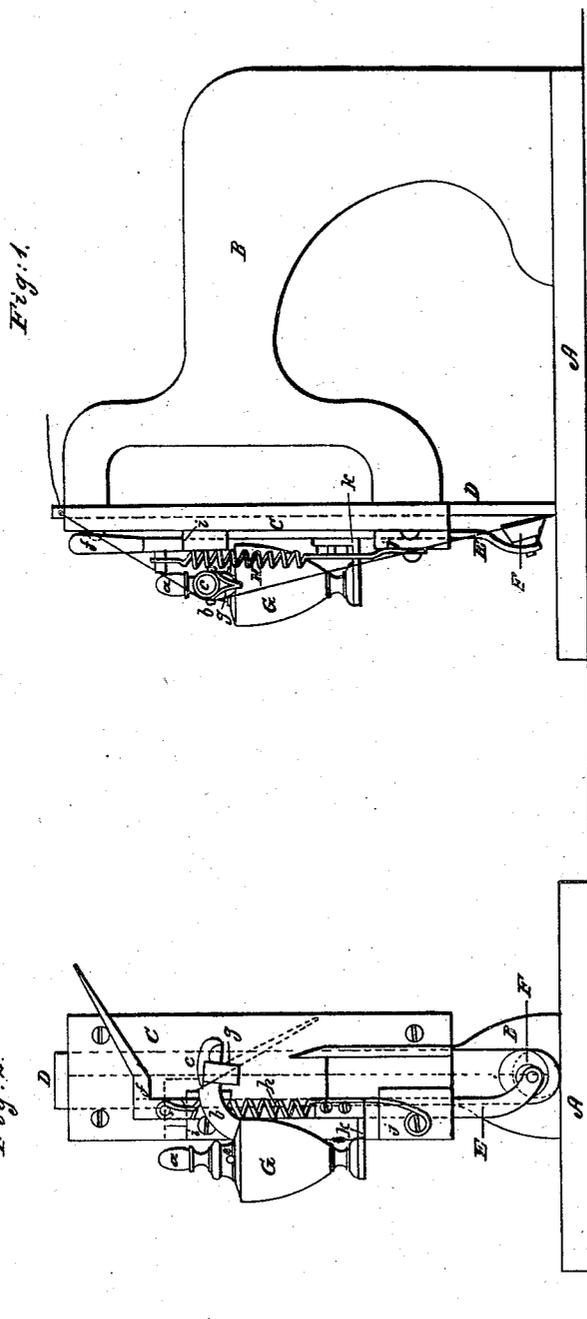


T. W. PEPPER,

Device for Oiling Thread in Sewing Machines.

No. 21,361.

Patented Aug. 31, 1858.



UNITED STATES PATENT OFFICE.

TRUMAN W. PEPPER, OF NEW YORK, N. Y.

IMPROVEMENT IN OILING THE THREAD FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 21,361, dated August 31, 1858.

To all whom it may concern:

Be it known that I, TRUMAN W. PEPPER, of the city, county, and State of New York, have invented a new and improved apparatus for oiling thread in sewing-machines for the sewing of patent and enameled leather, gutta-percha, india-rubber, and other hard coated goods; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, figures, and letters of reference thereon, making part of this specification.

Of the said drawings, Figure 1 denotes a side elevation of my improved apparatus attached to a sewing-machine. Fig. 2 is a front elevation of the same.

Similar letters of reference indicate like parts in all the drawings.

In the sewing of patent and enameled leather, gutta-percha, india-rubber, and other hard glazed or coated goods, it is found necessary to employ oil to prevent the friction and sticking of the needle and chafing and wear of the thread during the rapid perforations of the needle. This operation has heretofore been performed by submerging the needle-thread in a vessel filled with oil, whereby it became heavily saturated, and the rapid action of the needle and its operative mechanism causes the oil to spatter, to the serious injury and detriment of the work.

The nature and object of my invention is to obviate this spattering, and consequent damage arising therefrom, by mounting to the pressure-bar or other part of the machine a vessel filled with oil and provided with an orifice for holding any porous or absorbing material, (for the thread to pass over during its passage to the needle,) and having a valve to regulate the flow of oil to the absorbing material, so that the operator can saturate the needle-thread more or less, at option, and thereby accomplish the end desired without the slightest detriment to the goods during the progress of sewing.

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

A represents the bed of a machine; B, the standard supporting the needle mechanism.

C is a plate screwed to the standard B.

D is the needle-bar sliding in the plate C.

E is the pressure-bar sliding in proper boxes,

i and *j*, and having attached thereto, at its lower end a rotating beveled wheel, F, to prevent the sticking of the material while feeding.

G is the vessel for holding the oil or saturating substance, and is provided with a neck or spout, *b*, which is filled with some porous absorbing material, *c* and *g*, as plainly seen in the figures, and also with a valve, *a*, inserted in the vessel G. In the vessel G there is an orifice, *e*, and also a corresponding orifice in the valve-plug *a*. On the pressure-bar E there is a lever, with proper fulcra to raise the bar and release it, which, by means of the helical spring *h*, draws the wheel F down against and fastens the material to the feeding apparatus.

Operation: This oiling apparatus may readily be attached to any sewing-machine by having the thread—which is represented by the red lines—pass over or through the saturating-pieces *c* and *g*. The vessel being filled with oil or other saturating material, the valve *a* is turned so as to open the orifice *e*, and in proportion to the size of this opening the flow of oil is regulated by the vent and pressure of the atmosphere upon the oil within the vessel. When the machine is to be left idle for any time, the orifice *e* is closed by the valve *a*, and the flow of oil is thus wholly stopped.

I am aware of the patent granted I. M. Singer, May 30, 1854, wherein he claims oiling the thread with linseed-oil mixed with a drier, which he accomplishes by passing the thread into and out of a cup, said thread being passed over the edges of the cup, and made to pass near the bottom thereof by means of a guiding-eye. I am also aware of the patent granted Salem Wilder, January 30, 1855, for waxing thread, wherein the thread is passed into and out of a cup in a manner identical with that of Singer, and I therefore claim no part, device, or thing in these patents; but

What I claim, and desire to secure by Letters Patent, is—

The herein-described improvement in oil-vessels for sewing-machines—namely, providing the vessel with the regulating-plug *a*, neck or spout *b*, and porous material *c*, over which the thread is drawn, arranged and operating in the manner substantially as described.

TRUMAN W. PEPPER. [L. s.]

Witnesses:

C. A. DURGIN,

D. G. ROWLANDS.