

H. P. GARLAND.

Sewing-Machines for Sewing Bags, &c.

No. 169,163.

Patented Oct. 26, 1875.

Fig 1.

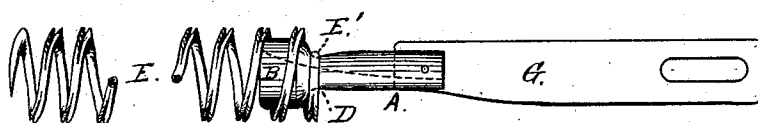


Fig 2.

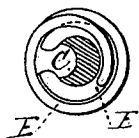
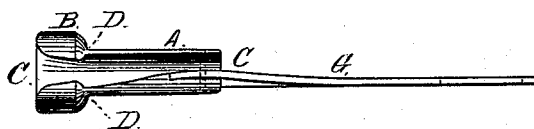


Fig 3.



WITNESSES

Edward E. Osborn
Wm D. English

INVENTOR

Howard P. Garland
By L. M. Smith
his Attorney

UNITED STATES PATENT OFFICE.

HOWARD P. GARLAND, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN SEWING-MACHINES FOR SEWING BAGS, &c.

Specification forming part of Letters Patent No. **169,163**, dated October 26, 1875; application filed May 17, 1875.

To all whom it may concern:

Be it known that I, HOWARD PRATT GARLAND, of San Francisco, in the county of San Francisco and State of California, have invented an Improvement in Machines for Sewing Sacks or Bags; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, in which—

Figure 1 represents a plan view; Fig. 2, an end sectional view through the line *xy*. Fig. 3 represents a side view of the slotted mandrel and strap.

This invention is intended as an improvement upon the machines for sewing bags, &c., for which Letters Patent have been heretofore granted to me, consisting of a mechanism for actuating a spiral needle, carrying a thread, to unite the edges of the cloth or material presented to the needle.

My present invention relates to a new and improved means for preventing the spiral needle from being drawn forward, or from creeping or crawling as the spirals make progress through the cloth, in which case, the spirals becoming contracted, the cloth is liable to be caught and rolled or gathered between them, and the progress of the sewing is retarded unless considerable care is taken to guide and feed the cloth to the needle. It consists, mainly, of a slotted mandrel secured to a slotted strap that is fastened to one side of the table of the machine by a set-screw. The mandrel has an enlarged head, and the last spiral of the needle passes around it, and is bent inward, and made smaller in diameter, to fit against the shoulder of the enlarged head and hold the needle from moving forward beyond the position where the last spiral comes in contact with the shoulder. A smooth open-mouthed slot is made in the mandrel from one end to the other, so that the edges of the sack or cloth being sewed will easily pass out as they leave the heel of the needle when guided by the fingers of the operator.

Referring to the drawing for a better description of my invention, A represents the mandrel, provided with an enlarged head, B, and open-mouthed slot C. The head B forms a shoulder, D, for the end of the last spiral to turn against, the point E' of the heel of the needle E being depressed or bent inward, so that the spiral needle is prevented from being

drawn forward out of position, or its spirals contracted, which would be liable to happen in case the heel or last spirals of the needle were not controlled in a similar manner to that herein described and shown. The end of the slot C at the head of the mandrel is made somewhat deeper than the other portion, and with a flaring mouth, in order to guide the edges of the cloth or material being sewed, and allow them to pass smoothly through the slot and out at the end of the mandrel. The mandrel A is secured to the end of a slotted strap, G, by means of which it is fastened and held in place in the machine, a slot being made in the end of the strap, and a set-screw being employed to hold it in position. By this means the position of the needle can be regulated, and the pull or tension upon it can be adjusted at will.

The cloth is fed to the needle in the usual way, as described in my former Letters Patent, being guided by the operator, so that the edges of the bag or fabric will enter and pass through the slot in the mandrel as they leave the needle.

It will be evident that a threaded screw secured to the end of the mandrel A might be substituted for the slotted strap, to be held by passing through the side of the machine, and being secured by means of a nut on the outside, so that the position of the needle could be adjusted, as before described; but I prefer the slotted strap, for the reason that it possesses more elasticity, and will vibrate with the vibration or recoil of the needle.

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

1. The mandrel A, provided with the enlarged head B, slot C, and slotted strap G, as and for the purpose specified, constructed substantially as set forth.

2. The combination, with the mandrel A, provided with an enlarged head and slotted strap, of the spiral needle E, having the point of its last spiral bent in, substantially as and for the purpose specified.

In witness whereof I have hereunto set my hand and seal.

HOWARD PRATT GARLAND. [L. s.]

Witnesses:

HENRY C. BLAKE,
C. W. M. SMITH.