No. 701,824. Patented June 10, 1902.

E. H. AHRENS.

COMBINED TABLE AND GUARD ATTACHMENT FOR SEWING MACHINES.

(Application filed Dec. 26, 1901.)

(No Model.)

Fig. 1.

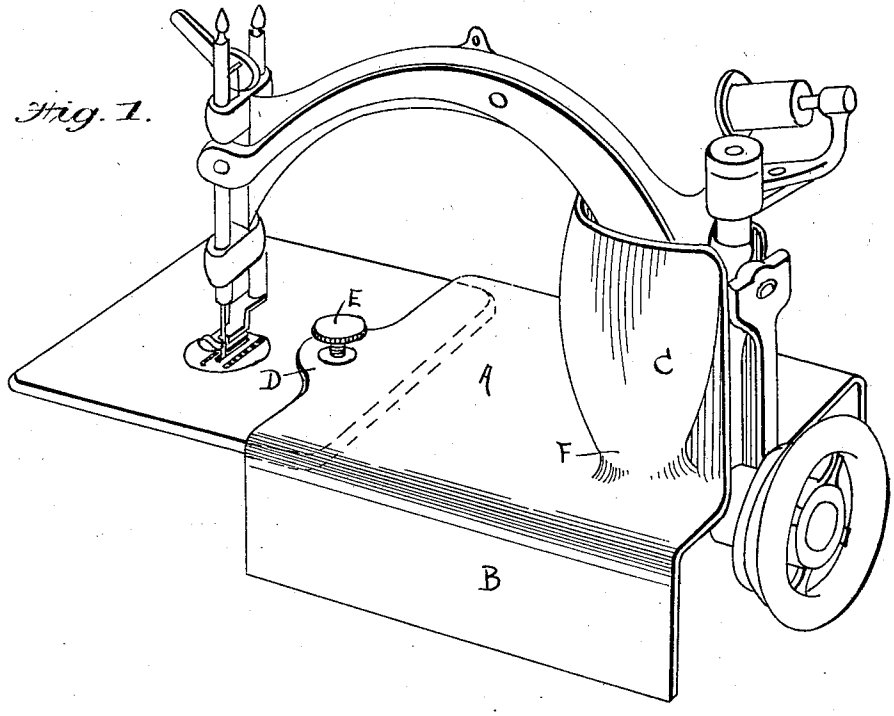
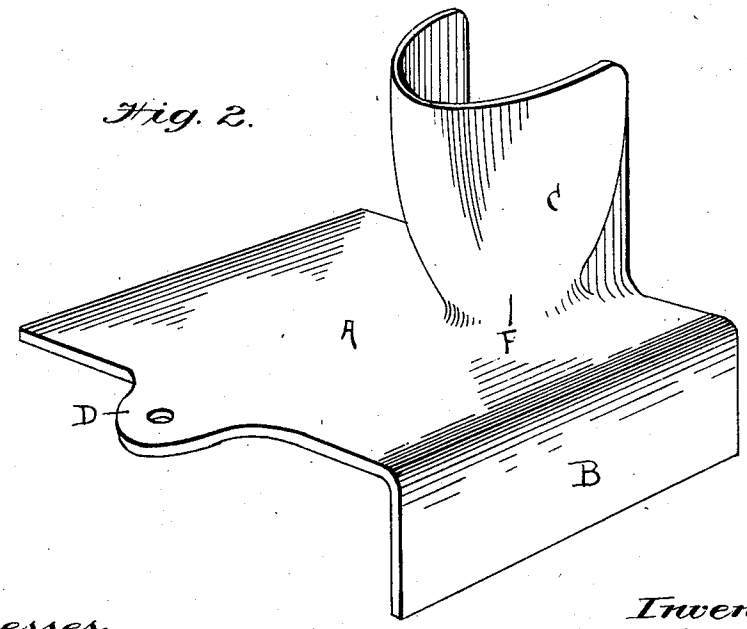


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

ELLA H. AHRENS, OF PHILADELPHIA, PENNSYLVANIA.

COMBINED TABLE AND GUARD ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 701,824, dated June 10, 1902.

Application filed December 26, 1901. Serial No. 87,174. (No model.)

To all whom it may concern:

Be it known that I, ELLA H. AHRENS, a citizen of the United States, and a resident of the city of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in a Combined Table and Guard Attachment for Sewing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in a combined table and guard for use with sewing-machines, particularly those of the Willcox & Gibbs type, although it may be applied to any other type of machine to which it is adapted.

The general nature of the invention consists in providing a plate which may form an extension of the machine-table and which at one end extends upwardly and around the machine-arm, so as to prevent the material being operated upon from coming in contact with oil, dust, and irregular working parts of the machine. Said plate also forms a guideway whereby the material, especially when in long and heavy pieces, is allowed to pass more easily under the machine-arm.

For a full and complete disclosure of this invention reference may be had to the following description and the accompanying drawings, in which—

Figure 1 shows a perspective view of my device applied to a sewing-machine, and Fig. 2 is a perspective view of the device alone and detached from the machine.

In the drawings, A represents a plate adapted to be attached to the machine-table by any well-known means, but in this instance is a thumb-screw passing through the extension or ear D and into the plate forming the machine-table. At the opposite end of the plate A from that of the attaching means is a curved upwardly-extending shield or shell C, which is adapted to closely surround the machine-arm and cover the irregular and moving parts both below the surface of the table and back of the arm. This shield connects with the plate A by a reduced portion substantially semicircular in cross-section, which gradually flares into the large portion G near the top.

It will be noticed that the portion F where it meets the table forms a gradual curved surface, obviating any small recesses for the collecting of dust, &c., and prevents the material passing under the arm from becoming wedged or retarded in its movement. The shield, as shown, is preferably integral with the plate and stamped from one piece of sheet metal, although the operativeness of the device is not dependent thereupon.

An apron or front downwardly-extending portion B is provided to permit the work to more easily pass the edge of the plate and to keep the same away from the lower portions of the mechanism.

It will be noticed that by the construction described it is necessary to attach the device to the machine by one fastening only, the peculiar construction of the shield serving as a supporting part and also holding that end of the device in position. The simplicity, efficiency, and ease of manipulation establishes the increased advantage and utility of this device.

Minor changes in details self-suggestive to one skilled in the art may be made without departing from the spirit of my invention; but

What I claim as my invention, and desire to protect by Letters Patent, is—

1. A combined table and guard attachment for sewing-machines, comprising a plate or table adapted to be attached to a fixed part of the machine, and an upwardly-extending shield having the form of a semiclosed figure in cross-section, secured to said table and adapted to inclose the machine-arm, substantially as described.

2. A combined table and guard attachment for sewing-machines, comprising a plate, adapted to overlap the machine-table, an upwardly-extending semitubular shield adapted to inclose the machine-arm, and means for attaching said plate to the machine-table, substantially as described.

3. A combined table and guard attachment for sewing-machines comprising a plate adapted to be attached to the machine-table, an upwardly-extending shield having a semicircular curved, reduced lower portion and a flaring upper portion adapted to embrace the

machine-arm, and means for attaching said plate to the machine, substantially as described.

4. A combined table and guard attachment for sewing-machines comprising a plate adapted to be attached to the machine-table having an integral ear or fastening-lug extending from one end thereof and a downwardly-extending apron attached to one edge, an integral semicircular curved shield extending from the other end of said plate, said shield where connected to said plate having a gradually upwardly curving surface and reduced at its lower portion and flared above to embrace the machine-arm and means for attaching said plate to the machine, substantially as described.

In witness whereof I have hereunto set my hand this 16th day of December, A. D. 1901.

ELLA H. AHRENS.

Witnesses:
ADOLPH AHRENS, Jr.,
JNO. T. CROSS.