

(No Model.)

3 Sheets—Sheet 1.

E. M. HEWSON.

TRIMMING ATTACHMENT FOR SEWING MACHINES.

No. 309,461.

Patented Dec. 16, 1884.

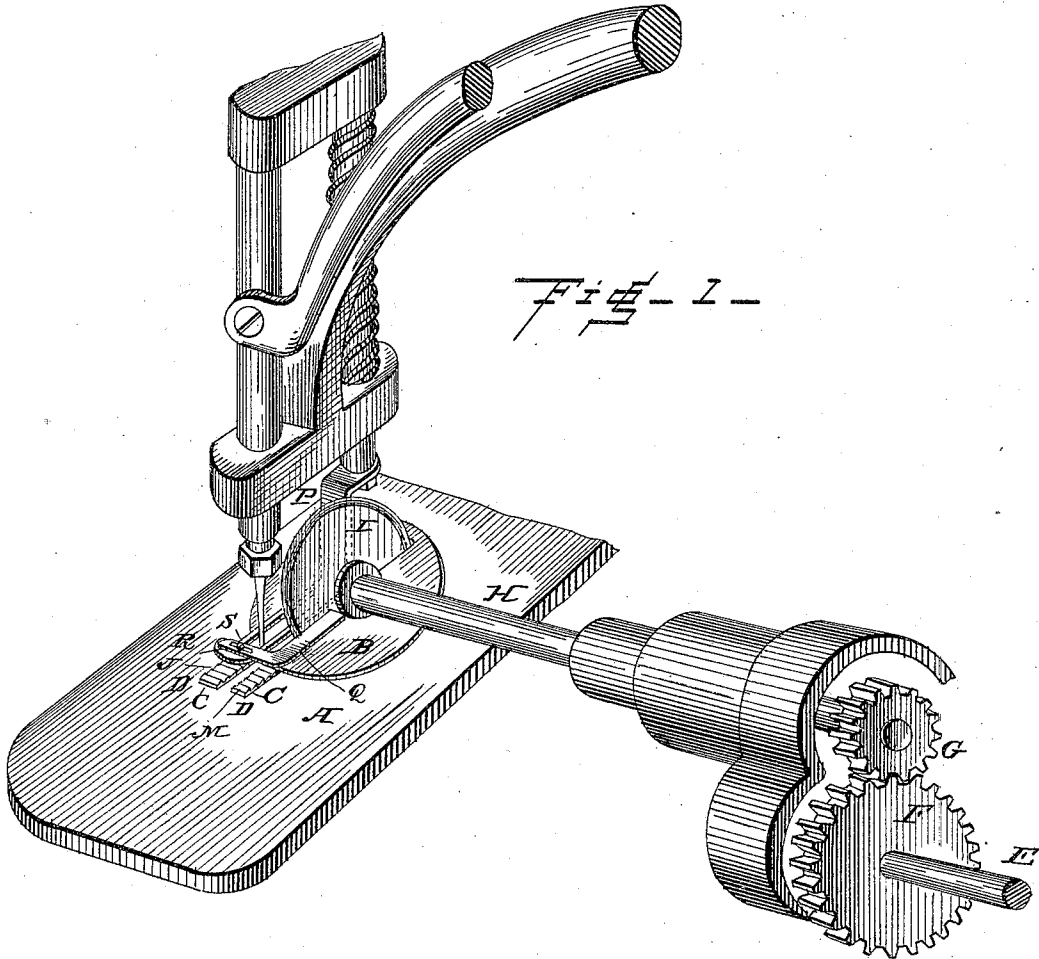
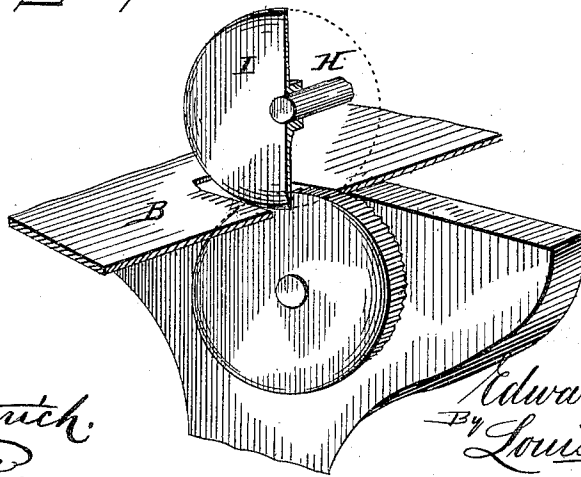


Fig-1-

Fig-7-



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INVENTOR,

*Edward M. Hewson*  
By *Louis Bagger & Co.*  
ATTORNEYS.

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Fig-2-

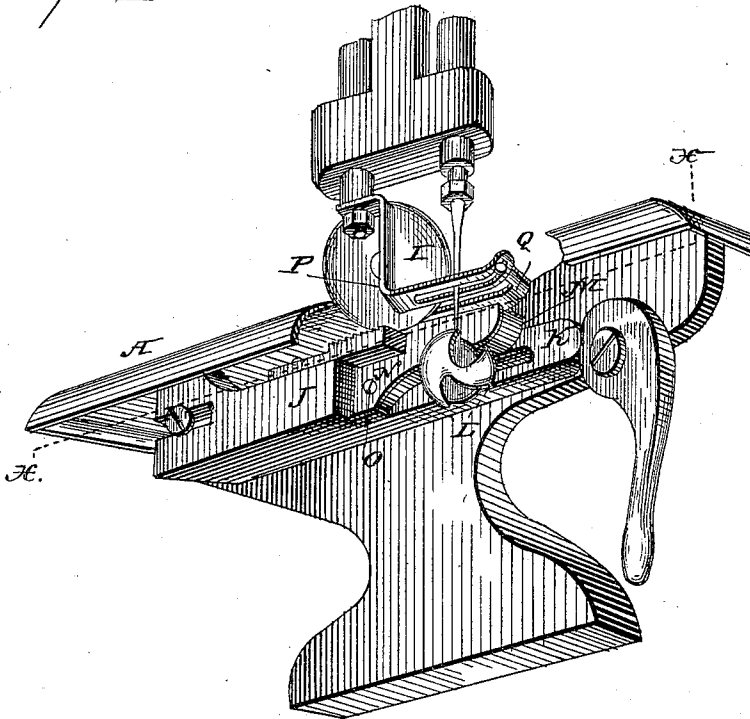


Fig-5

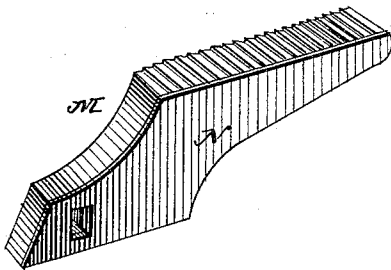
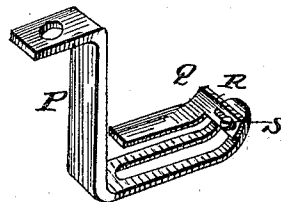


Fig-6



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(No Model.)

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Fig- 3-

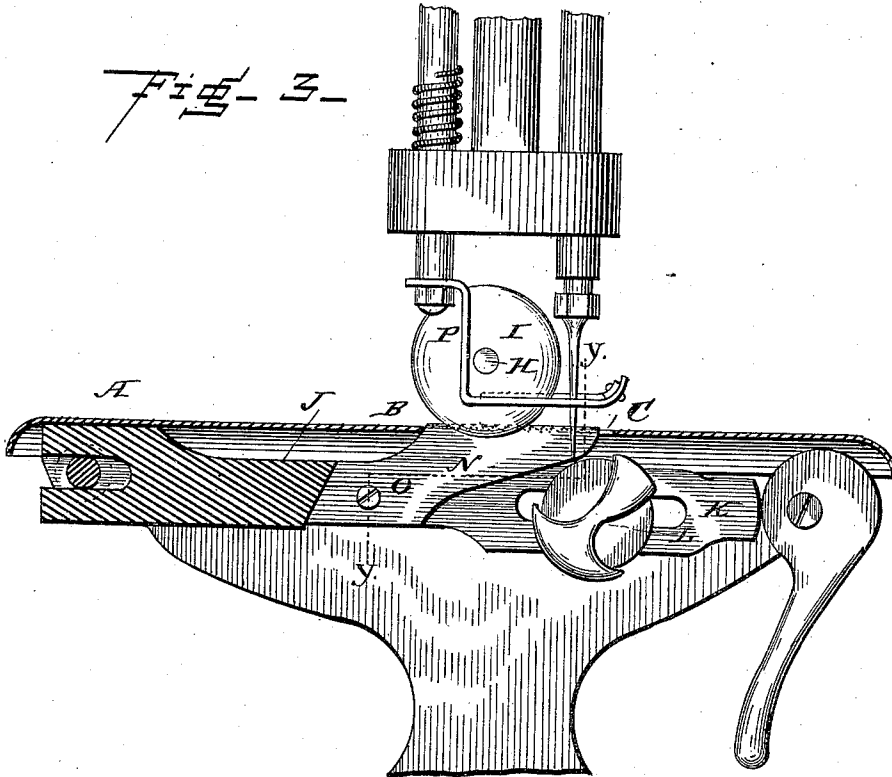
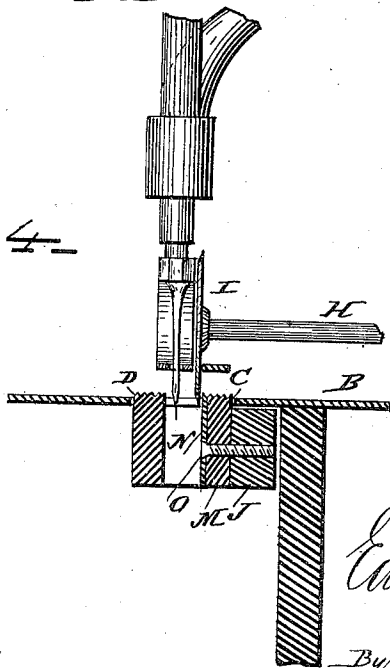


Fig- 4-



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# UNITED STATES PATENT OFFICE.

EDWARD M. HEWSON, OF STILLWATER, NEW YORK.

## TRIMMING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 309,461, dated December 16, 1884.

Application filed July 14, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD M. HEWSON, a citizen of the United States, residing at Stillwater, in the county of Saratoga and State of New York, have invented certain new and useful Improvements in Trimming Attachments for Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of as much of a sewing-machine as will show my improved trimming attachment. Fig. 2 is a similar view of the mechanism below the bed-plate with portions broken away. Fig. 3 is a vertical section on line *x x*, Fig. 2. Fig. 4 is a section on line *y y*, Fig. 3. Figs. 5 and 6 are perspective detail views of the feeder and of the foot, and Fig. 7 is a perspective view of a portion of a sewing-machine, showing the trimming attachment applied to a rotary feeder.

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

My invention has relation to that class of sewing-machines in which a rotary cutting-disk operates in conjunction with an opposite cutting-edge to trim off the edges of the fabric sewed; and it consists in the improved construction and combination of parts of an attachment in which the cutting-edge, opposite to the cutting or trimming disk is attached to the feeder, thus causing the feeder to carry off the trimmings and preventing them from obstructing the work, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the bed-plate of the machine. B is the throat-plate, which is provided with two slots, C and D, for the passage of the feeder acting upon the fabric and for the feeder acting upon the trimmings, the latter projecting through the slot nearest to the inner edge of the bed-plate.

E is the main shaft of the sewing-machine, and a cog-wheel, F, is secured upon the shaft, and meshes with a pinion, G, upon a shaft, H, journaled in bearings upon the top of the bed-plate, and a disk, I, having sharp cutting-edges, is secured upon the end of the shaft,

projecting with its edge into the inner slot in the throat-plate.

J is the feeder, which is of the usual construction, and projects through the slot in the throat-plate nearest to the outer edge of the bed-plate, and the arm K, which connects the feeder with the eccentric L upon the main shaft, (the machine for which this attachment is especially intended being a machine having a loop-forming hook upon the end of the main shaft, and having the feed operated by an eccentric upon the said shaft,) is provided with another feeder, M, which has a plate, N, secured to its outer side, and the said feeder and plate are secured upon the side of the arm by means of a screw, O, and the plate secured upon the outwardly-facing side of the feeder has its upper edge cut straight and sharpened as the edge of a scissors-blade. The side and edge of the trimmer-disk bears against the outwardly-facing side of the cutting-plate, the said disk and plate thus forming a perfect pair of scissors, and the trimmer-disk may be adjusted closer to the needle, and consequently to the stitching, by interposing washers between the inner side of the said disk and the end of the shaft, and the cutting-plate may be adjusted toward the needle by interposing washers or plates between the outwardly-facing side of the feeder-arm and the inwardly-facing side of the plate.

P is the presser-foot, which is of the usual construction, and a plate, Q, having a laterally-projecting slotted arm, R, slides with the said slotted arm adjustably upon a set-screw, S, passing into the end of the foot facing the operator, and the said plate forms a slot between its outwardly-facing edge and the inwardly-facing edge of the foot, in which slot the trimmer-wheel rotates, the plate bearing against the auxiliary feeder and the foot bearing against the feeder acting upon the fabric.

It will be seen that by having the cutting-edge operating against the trimmer-disk secured upon an auxiliary feeder the trimmings will be fed away from the needle as well as the fabric sewed, and that the trimmer-disk will cut a clear edge, and, if desired, the trimmer-disk, the auxiliary feeder and cutting-edge, and the plate upon the presser-foot may be adjusted so as to trim the edges of the fabric closer to the stitches than when in their

normal position, by interposing washers between the disk and the end of its shaft, and by interposing washers between the feeder-arm and the auxiliary feeder, and by adjusting the slotted arm of the plate of the presser-foot.

In Fig. 7 is shown a perspective view of the attachment adapted for a machine having a rotary feeder, in which case an auxiliary feeder-disk is placed upon the shaft for the feeder, the outwardly-facing side of which is provided with a cutting-edge which operates together with the trimmer-disk.

I am aware that it is not broadly new to have a revolving trimmer-disk above the bed-plate operating together with a corresponding disk below the bed-plate, and I do not claim such construction, broadly; and I am likewise aware that sewing-machines have been made in which two feeders have projected through slots in the throat-plate, one at each side of a cutter, feeding the goods and the trimmings, and I do not claim this construction either; but

I claim—

1. The combination of the bed-plate of a sewing-machine having two slots, one at each side of the needle-hole, a trimmer-disk journaled to rotate above the throat-plate, and with its lower portion in the slot farthest from the edge of the bed-plate, a feeder having one portion projecting up through the outer slot in the throat-plate, and serving to feed the fabric, and having another portion projecting through the inner slot, provided with a cutting-edge upon its outer edge, and serving to feed the trimmings, and a foot having a slot formed at its inner portion for the reception

of the trimmer-disk, the outer portion serving to press against the fabric and the fabric-feeder, and the inner portion of the foot pressing against the trimmings and the trimmings-feeder, as and for the purpose shown and set forth.

2. The combination of the main shaft in a sewing-machine having a loop-making hook and eccentric and placed under the bed-plate of the machine, a throat-plate having two slots on each side of the needle-hole, a cog-wheel secured upon the main shaft, a shaft journaled upon the bed-plate of the machine, and having a pinion at one end meshing with the cog-wheel, and provided with a trimmer-disk secured adjustably upon its outer end, the feeder having the usual arm rocking upon the eccentric, and projecting through the outer slot of the throat-plate, the auxiliary feeder having a downwardly-projecting lip secured by a screw to the arm of the feeder, the plate having the upper cutting-edge and secured upon the outwardly-facing side of the auxiliary feeder by the screw securing the latter, the presser-foot bearing against the feeder, and the plate having the laterally-projecting slotted arm sliding adjustably upon the screw fitting in the foot, the said plate bearing against the auxiliary feeder, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

EDWARD M. HEWSON.

Witnesses:

WM. SECHER,  
WM. H. BENTON.