

No. 646,756.

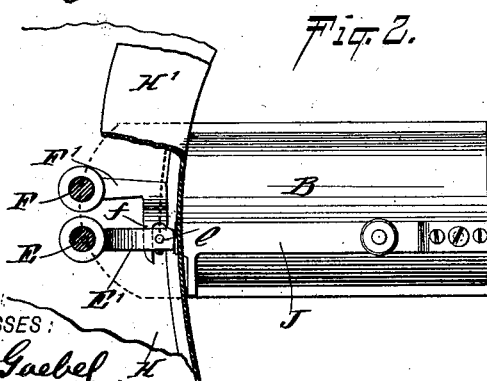
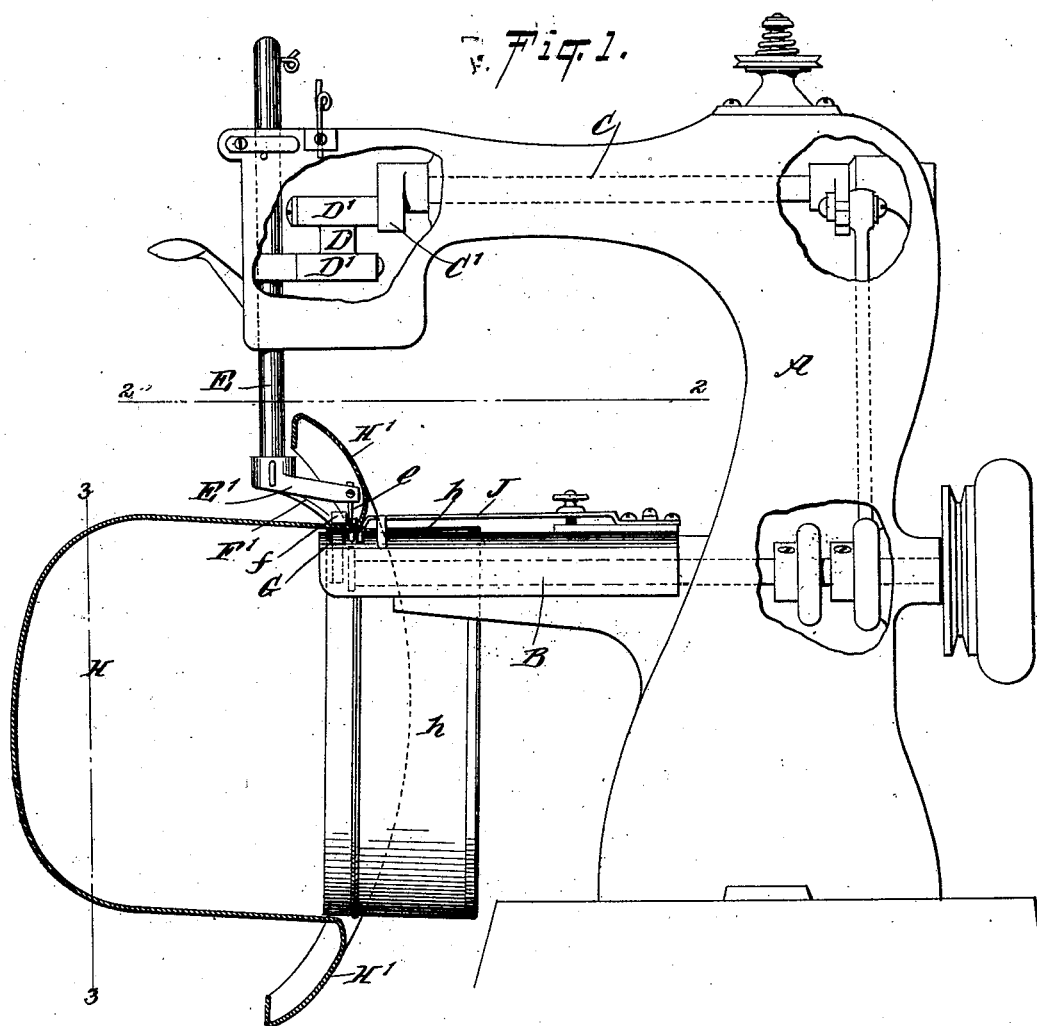
Patented Apr. 3, 1900.

E. G. O'DONNELL.
HAT SEWING MACHINE.

(Application filed Jan. 14, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:
William P. Gaebel
H. L. Reynolds.

INVENTOR
Edmond E. O'Donnell
BY *Munn & Co.*

ATTORNEYS.

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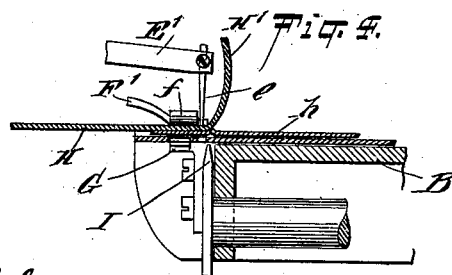
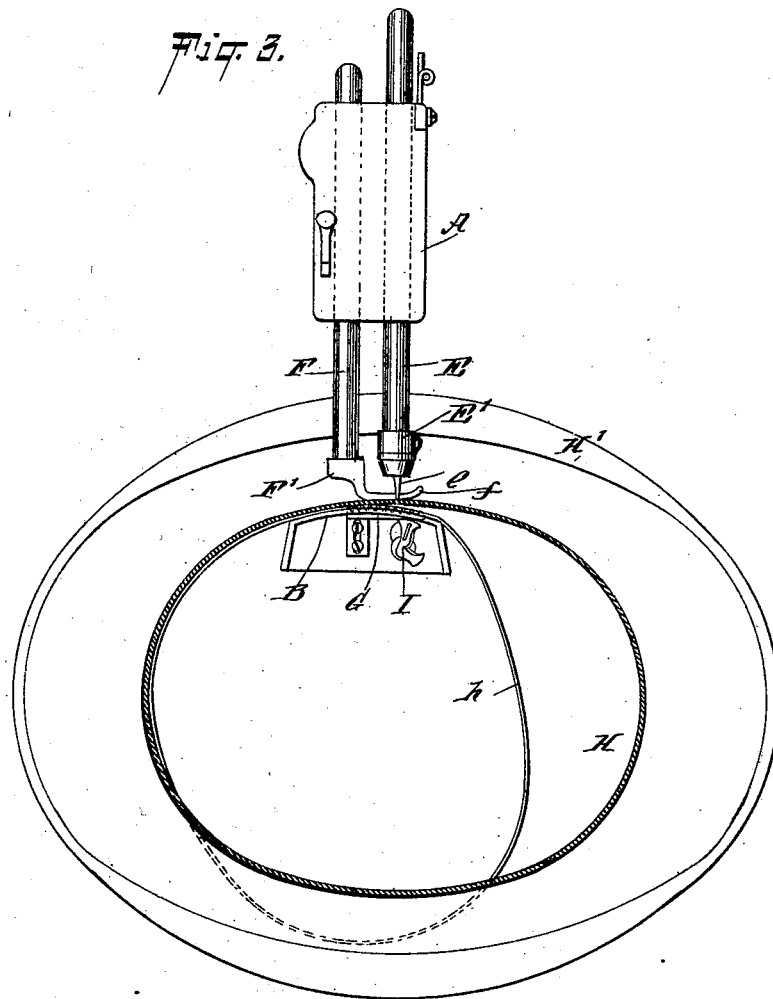
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INVENTOR

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UNITED STATES PATENT OFFICE.

EDMOND GREGORY O'DONNELL, OF FALL RIVER, MASSACHUSETTS, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, OF THREE-FOURTHS TO JOHN J. O'DONNELL AND WILFRED AINSWORTH, OF SAME PLACE.

HAT-SEWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 646,756, dated April 3, 1900.

Application filed January 14, 1899. Serial No. 702,166. (No model.)

To all whom it may concern:

Be it known that I, EDMOND GREGORY O'DONNELL, of Fall River, in the county of Bristol and State of Massachusetts, have invented a new and Improved Sewing-Machine, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide a machine for sewing the sweat-band into stiff felt or other hats having a roll-brim. Heretofore this work has been done by hand-sewing, owing to the difficulty of reaching under the brim to the base of the crown, at which point the sweat-band is sewed. I attain this end by constructing the sewing-machine with a frame comprising an upper arm and a lower arm, the former carrying the needle and presser-foot and being projected out beyond the latter or lower arm, which serves to carry the work and also the stitch-forming devices. The needle and presser-foot bars are provided with arms projected inwardly to the end of the lower arm and carry the needle and presser-foot, so as to hold the same under the brim of the hat and cause them to work at the very base of the crown.

This specification is the disclosure of one form of my invention, while the claim defines the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the invention with parts broken away. Fig. 2 is a sectional plan on the line 2 2 of Fig. 1. Fig. 3 is a front elevation of the invention with the crown of the hat in section on the line 3 3 of Fig. 1, and Fig. 4 is a detail sectional view taken through the lower arms of the machine and showing the needle and complementary stitch-forming mechanism.

The frame A of the machine has an upper arm C and a lower arm B, the former of which projects outward beyond the end of the arm B and carries the driving-shaft, on which is fastened a crank C'. To the crank C' is connected a link D, having axially-elongated bearings D' for reducing the lateral move-

ment of the link. This link D is connected with the needle-bar E to reciprocate the same. A presser-foot bar F is also mounted in the outer end of the arm C and extends parallel with the needle-bar E.

The lower arm B carries a gage J for guiding the sweat-band, (indicated by the letter *h*.) The lower arm B is equipped with a chain-stitch hook I and feed mechanism G, as shown. The needle-bar E carries an arm E', which is projected inwardly and inclined downwardly to a point just over the outer end of the arm B, the arm E' carrying the needle *e*. With this arrangement a very short needle is employed, which is essential, seeing that the needle must work beneath the brim H' of the hat. The presser-foot bar F carries an arm F', extended inward alongside the arm E', but inclined downwardly to an extent greater than the inclination of the arm E'. This arm F' carries a presser-foot *f*, which extends laterally to the arm and longitudinally with the brim of the hat, so as to contact the inner edge of the presser-foot with the brim of the hat, whereby to guide the movement of the hat over the arm B. The presser-foot *f* is cut away, as shown, to provide a space through which the needle *e* may work.

In using the invention the hat H and the sweat-band *h* are placed over the arm B of the frame of the machine, the bars E and F being first raised to permit the passage of the brim of the hat under the needle and presser-foot, so that the sides of the crown of the hat may bear on the arm B and the brim stand upward from the arm inward of the bars E and F. This causes the needle and presser-foot to be projected well under the brim to the base of the crown and enables the sweat-band to be sewed in place, as illustrated in the drawings.

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

A hat-sewing machine, having a frame provided with an upper arm and a lower arm, the arms extending horizontally and the upper arm projecting outward beyond the outer end of the lower arm, a driven needle-bar car-

ried in the outer end of the upper arm, a
presser-bar carried in the upper arm along-
side of the needle-bar, an arm attached to the
needle-bar and extending inwardly to a point
5 over the outer end of the lower arm, the arm
of the needle-bar serving to carry the needle
so that it may work through the lower arm of
the frame, an arm carried by the presser-foot
bar and extending inwardly alongside the arm
10 of the needle-bar, a presser-foot carried by
the arm of the presser-foot bar and disposed

transversely thereto, so that the inner edge
of the presser-foot may bear against the brim
of the hat to guide the same, and complemen-
tary stitch-forming and feed mechanism car- 15
ried by the lower arm of the frame and work-
ing in time with the needle-bar.

EDMOND GREGORY O'DONNELL.

Witnesses:

NICHOLAS HATHEWAY, Jr.,
PETER H. ATHERTON.