

A. H. SHERWOOD.

Sewing Machine.

No. 76,950.

Patented April 21, 1868.

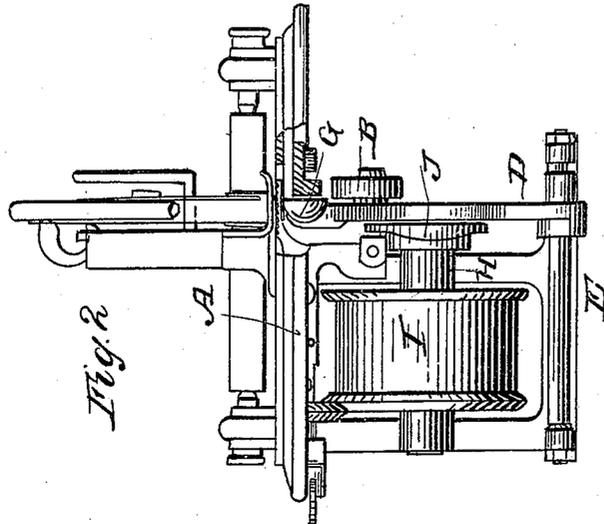


Fig. 2

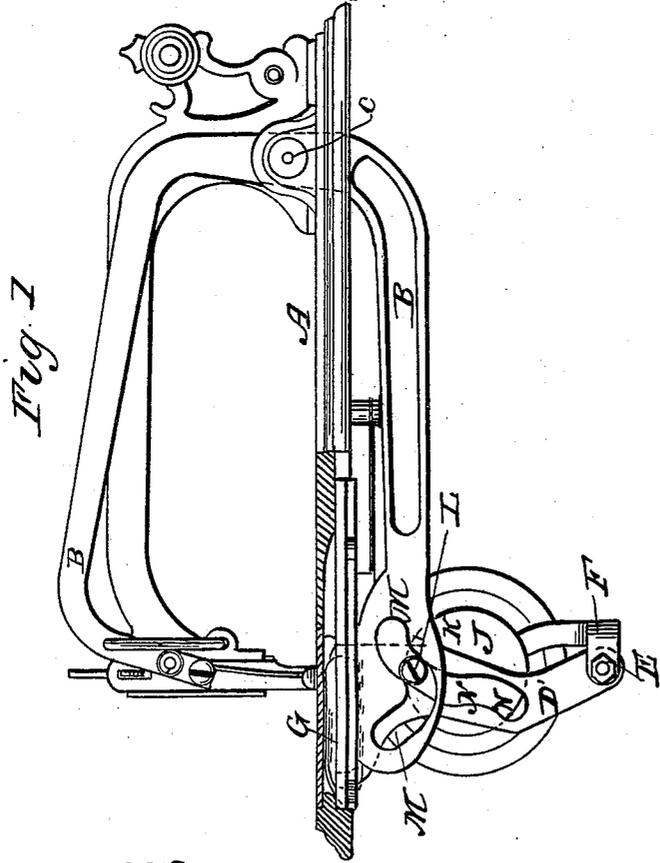


Fig. 1

Witnesses
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UNITED STATES PATENT OFFICE.

ARTHUR HAMILTON SHERWOOD, OF SOUTHPORT, CONNECTICUT.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. **76,950**, dated April 21, 1868; antedated April 16, 1868.

To all whom it may concern:

Be it known that I, ARTHUR H. SHERWOOD, of Southport, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Sewing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

The present invention relates to that class of sewing-machines commonly known as the "Grover & Baker" sewing-machine; and the invention consists in an arrangement and construction of parts operating both the needle and the shuttle or under-thread carrier, as will be now described, reference being had to the accompanying plate of drawings, in which—

Figure 1 is a side elevation of the machine, and Fig. 2 an elevation or view from the front end thereof.

Similar letters of reference indicate like parts.

A in the drawings represents the cloth or bed-plate of the machine, which in the ordinary manner is to be supported upon a table or stand.

B is the needle-bar or rocking arm, made of a curved shape from end to end, and turning upon a center at C of the cloth-plate A, from which it extends below and under the said cloth-plate toward its front end, or where the needle passes down through the same.

D is an arm turning by a shaft, E, upon a center in the bracket-arm F upon the under side of the cloth-plate. This arm D' carries in its upper end the shuttle G for forming in connection with the needle the stitch in the cloth, the needle and shuttle being operated as and through the means of parts to be now described, so as to form or produce the stitch desired.

H is the shaft of the machine, having pulley I, through which, by means of a suitable belt, the machine is to be connected with the shaft,

operated by a treadle or otherwise, which is to drive the machine. On this shaft H is a disk or plate, J, having secured in its face K a stud or pin, L, of suitable length to project through both the shuttle-carrier arm and extension of the needle-arm, that are actuated one to the back or the front of the other. For each of these arms B and D' are slots, respectively marked M and N in the drawings, which slots in the direction of their length are made of a curve or circular shape in each case, as shown, and with the circles of such form that in the revolution of the shaft H, carrying the pin I, projecting and playing in such slots, the said shuttle-carrier arm and needle-arm will receive at the proper time relatively to each other the movements necessary to produce the stitch desired.

The advantage arising from making the slot in the needle-bar curved is that by such curvature the needle-bar is held stationary while the shuttle takes the loop directly from the needle and passes nearly through before the needle-bar rises. It also allows the shuttle to remain at rest until the needle-bar takes up the thread and forms the stitch.

I am aware that straight slots in the needle-bar and shuttle-bar have been before used; but such slots do not come into the position to take the loop direct from the needle, but require a hook to hold the loop until the shuttle passes, thereby creating an increased strain upon the thread. The straight slots I do not therefore claim.

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

The combination of disk J, pin L, with the shuttle-carrying arm D', and rocking arm B, provided with curved slots N M, the whole operating substantially as and for the purpose set forth.

ARTHUR HAMILTON SHERWOOD.

Witnesses:

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