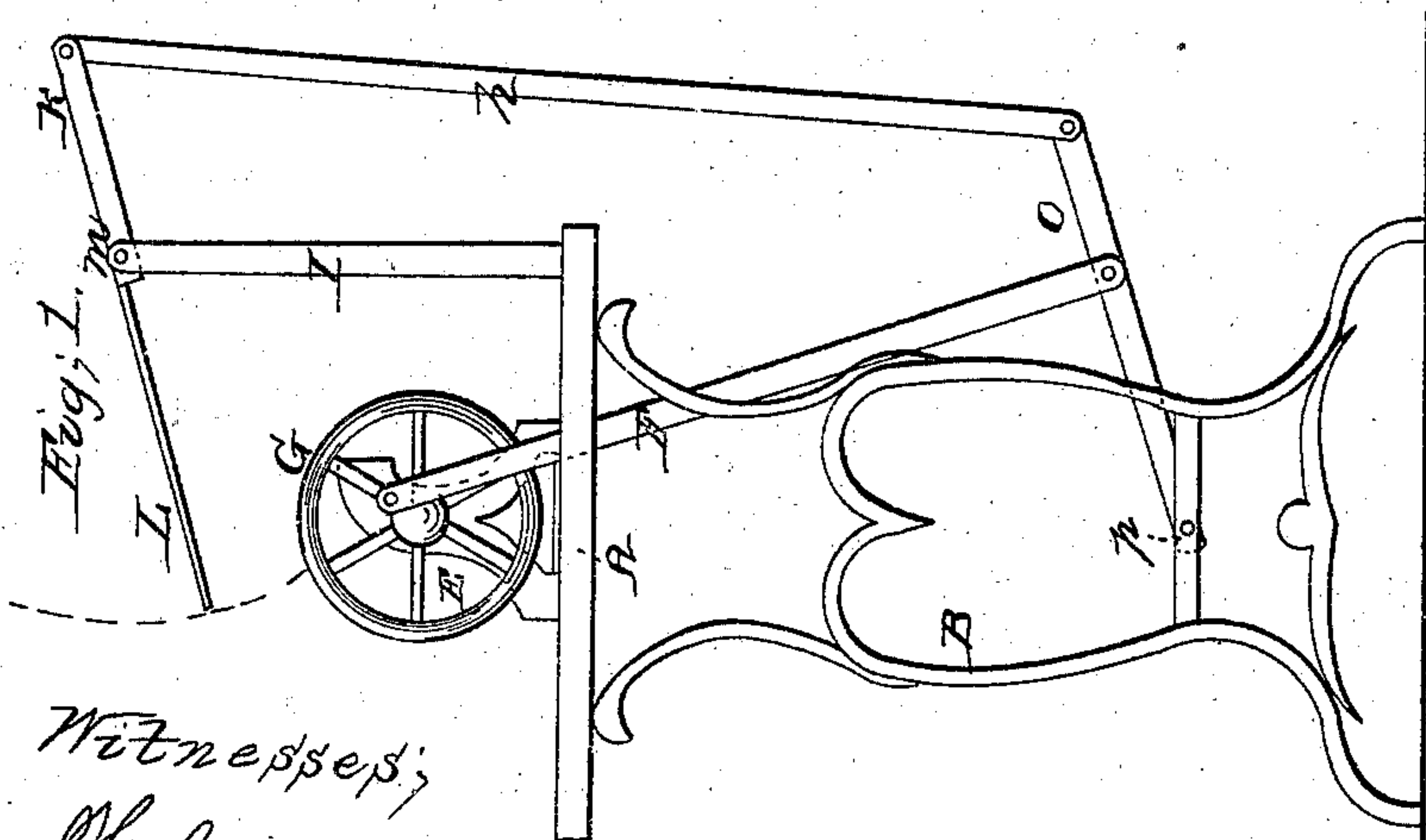
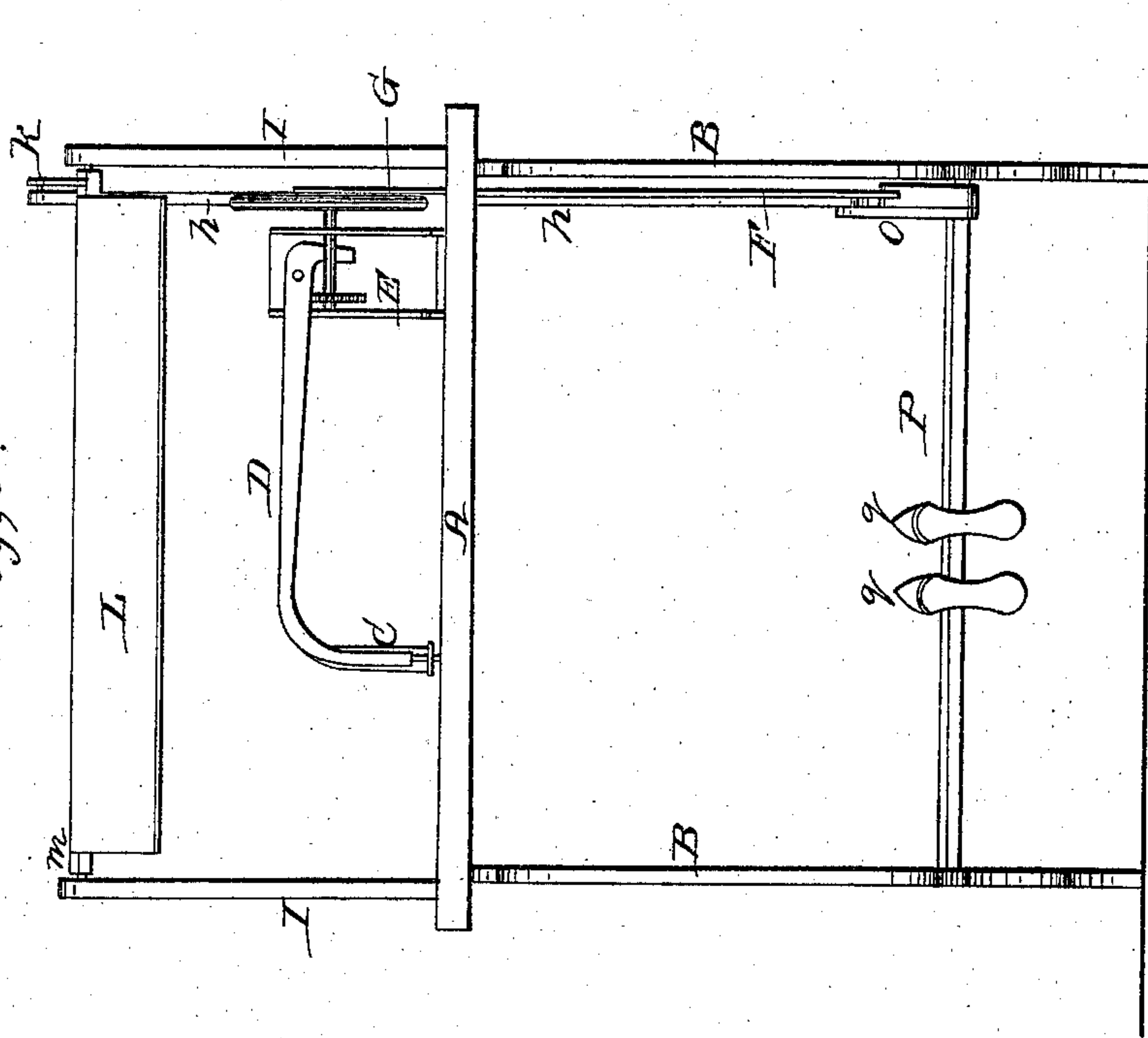


*S. Burr,*  
*Sewing-Machine Fan Attachment,*  
*N<sup>o</sup> 58,333.* *Patented Sep. 25, 1866.*

*Fig. 2.*



*Witnesses;*  
*H. C. Jewell*  
*Charles Spru*

*Inventor;*  
*Saml. Burr*  
*By his attorney*  
*J. N. McIntire*

# UNITED STATES PATENT OFFICE.

SAMUEL BURR, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND DAVID CONLAN, OF SAME PLACE.

## IMPROVED FAN ATTACHMENT FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 58,333, dated September 25, 1866.

*To all whom it may concern:*

Be it known that I, SAMUEL BURR, of New York, of New York county, in the State of New York, have invented a new Fan Mechanism for Sewing-Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention has for its object to provide a means of fanning the operative of a sewing-machine (or other machines worked at by operatives who apply the motive power) without the employment of any additional motor than is already required to operate the machine; and to this end my invention consists in the employment of a fan and suitable mechanism for operating it, where the mechanism for working the fan is connected to and driven by the driving machinery of the machine itself, as will be hereinafter more fully explained.

To enable those skilled in the art to make and use my invention, I will proceed to more fully describe it, referring by letters to the accompanying drawings, in which—

Figure 1 is an end elevation, and Fig. 2 a front elevation, of an ordinary sewing-machine with my invention embraced therein.

In the several figures the same letter of reference indicates the same part of the machine.

A is the table, B the supports or legs, C the presser-foot, D needle-arm, E working mechanism, and G balance-wheel of a sewing-machine, which may be of any kind, and need not here be specified in detail.

P is the ordinary driving rock-shaft, on which are secured the treads or foot pieces *q q*, and from which extend, near one end, the crank or vibrating arm *o*, from which extends the pitman *F*, which is connected to the crank-pin of the wheel *G*.

The parts alluded to thus far form part of the sewing-machine, and have no peculiarity of construction and operation.

At each end of the table *A* is a vertical post or standard, *I*, and in the upper ends of these posts *I* is arranged with suitable bearings, so as to turn freely on its axis, a shaft, *m*, to which is secured a simple plane of card-board, or any other suitable material, to constitute a fan, *L*. Near one end of the shaft *m* projects an arm, *k*, the extremity of which is connected by a pitman, *h*, to the end of arm *o*, (see Fig. 1,) in such manner that the vibrations of said arm *o* will be communicated to the arm *k* and fan *L*.

It will be seen that as the sewing-machine is run or operated the fan *L*, through the medium of arms *o k*, pitman *h*, and rock-shaft *m*, will be rapidly vibrated in the arc of a circle, as indicated by the dotted circle at Fig. 1, and produce a current of air over the face and body of the operator; and it will be understood that while the cost of applying the fan and its connected devices is very little the motive power employed to operate it is almost or quite nominal in quantity, being taken from the driving mechanism of the machine itself.

Of course my invention may be applied with equal facility and advantage to other kinds of machines, the gist of my invention being in the idea of a simple fan mechanism connected to and driven by the driving mechanism of the machine.

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

The employment of the vibratory fan *L*, when arranged with the supporting-standards *I I* and driving-arms *k h*, and the treadle of the machine, all as hereinafter specified.

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

SAMUEL BURR. [L. S.]

In presence of—

J. N. McINTIRE,  
DAVID CONLAN.