

B. L. JORDAN.
Chair Fan Attachments.

No. 140,047.

Patented June 17, 1873.

Fig. 1.

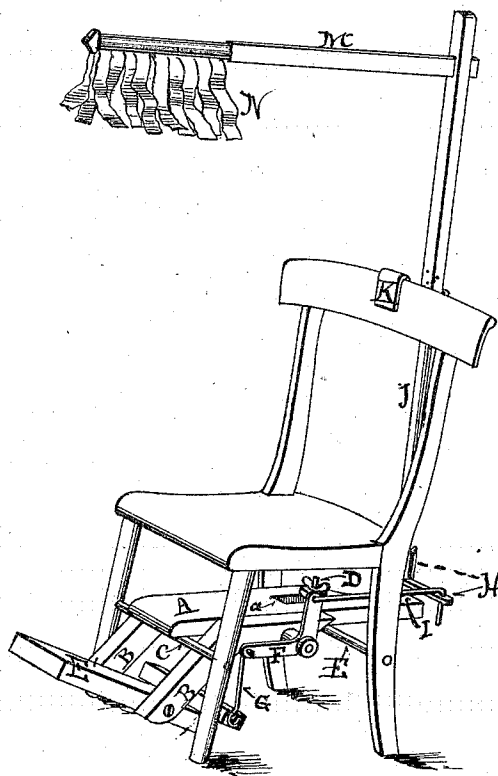
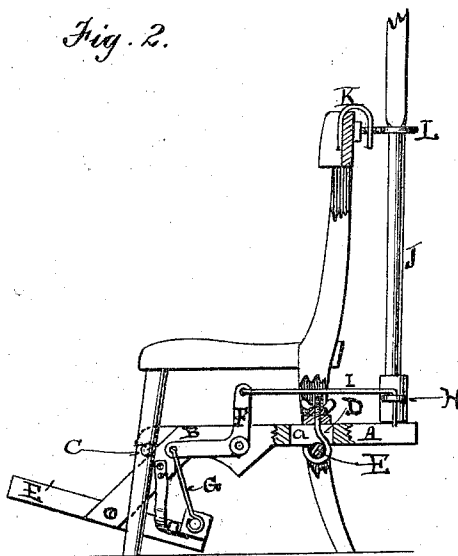


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN CHAIR FAN ATTACHMENTS.

Specification forming part of Letters Patent No. **140,047**, dated June 17, 1873; application filed April 12, 1873.

To all whom it may concern:

Be it known that I, BENJAMIN L. JORDAN, of Mercersburg, in the county of Franklin and State of Pennsylvania, have invented a new and useful improvement in Operating Fans or Fly-Brushes; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a prospective view of a chair having my improvement attached. Fig. 2 is a sectional side elevation of the same.

This invention relates to an arrangement of devices for operating a fan or fly-brush over a table, or in the vicinity of the head of the person using; and its object is to operate said fan or brush by the foot of the user instead of actuating it by means of costly clock-work machinery, and also by locating the main shaft of the device behind the chair of the user, and extending the fan-shaft above his head to secure for the same a longer sweep and more extended influence than is convenient or feasible with mechanism located upon the table or secured to the front of the user's chair. It therefore consists in a treadle attachment adapted and arranged to be readily attached to or detached from any ordinary chair, said treadle being connected by suitable cranks and rods to a rock-shaft located upon the treadle attachment at the rear of the chair, and a shaft extending upon and from said rock-shaft behind the chair, and bearing at its top an arm which projects forward from said shaft above the head of a person sitting upon the said chair to any proper distance. When said treadle is actuated by the foot of a person sitting upon the chair the said arm is caused to vibrate and a bunch of paper strips or any other suitable material will be caused to flutter back and forth in front of said person and effectually keep the flies at a distance. If desired a fan may be substituted for the described fly-brush.

That others may fully understand my improvement I will particularly describe it.

A base-board, A, is prepared, of sufficient length to rest upon the front and back rungs of the chair, and extend a little distance back of the latter. Upon each side and to the edge of the board A I secure obliquely an arm, B,

which projects downward and forward, and forms a seat for the front rung *c* in the angle between said board and arms. At the rear part of said board I make a longitudinal slot, *a*, and pass through said slot a screw-hook, D, which clasps the rear rung E, and holds the board A firmly attached to the chair. The slot *a* enables the hook D to be adjusted forward or backward as may be necessary to adapt it to chairs of various dimensions. A treadle, E', is pivoted to the lower ends of the arms B, and is located conveniently for operation by the foot of a person sitting upon the chair. The rear end of said treadle, or an arm extending rearward therefrom, operates a bell-crank lever, F, by means of a connecting-rod, G, and said bell-crank operates a rock-shaft, H, by means of a connecting-rod, I. Said rock-shaft moves upon a vertical axis fixed to the rear end of the board A. A socket is made in the rock-shaft, and coincident with the axis thereof, to receive the end of the shaft J, and a removable clip, K, attached to the upper bar of the chair-back holds a ring, L, which serves for an upper bearing for the support of said shaft J. I think it advisable to make the socket in rock-shaft H octagonal, as the shaft J can then be set so as to present either face to the front; but the same result may be attained by other means. A mortise is made through the upper end of the shaft J for the insertion of the end of a vibrating-arm, M, to the front end of which the brush or fan N is attached. This arm may be retained in place by a small key, so that it will be readily removable from the shaft J.

The arm M may be attached to the shaft J by any other convenient method.

The arm M may be set so as to extend in any direction from the chair of the operator, so as to operate over a sick person in bed, either at the side or even behind the chair, and the whole may be readily removed and packed away.

Having described my improvement, what I claim as new is—

1. In combination with an ordinary chair, the removable base-board A, bearing a treadle, E', and operative mechanism to convey motion from said treadle to a vibrating-arm, M,

which bears a brush or fan, substantially as set forth.

2. The combination and arrangement of the base-board A, arms B B, slot *a*, and screw-hook D, as set forth, for convenient attachment of said board to the front and back rungs of a chair.

3. The treadle E', bell-crank F, and rock-

shaft H, with their connecting-rods, combined with shaft J and arm M, as and for the purpose set forth.

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Witnesses:

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