(No Model.)

A. LLOYD.

FLY FAN.

No. 252,885. Patented Jan. 31, 1882.

Fig. 1.

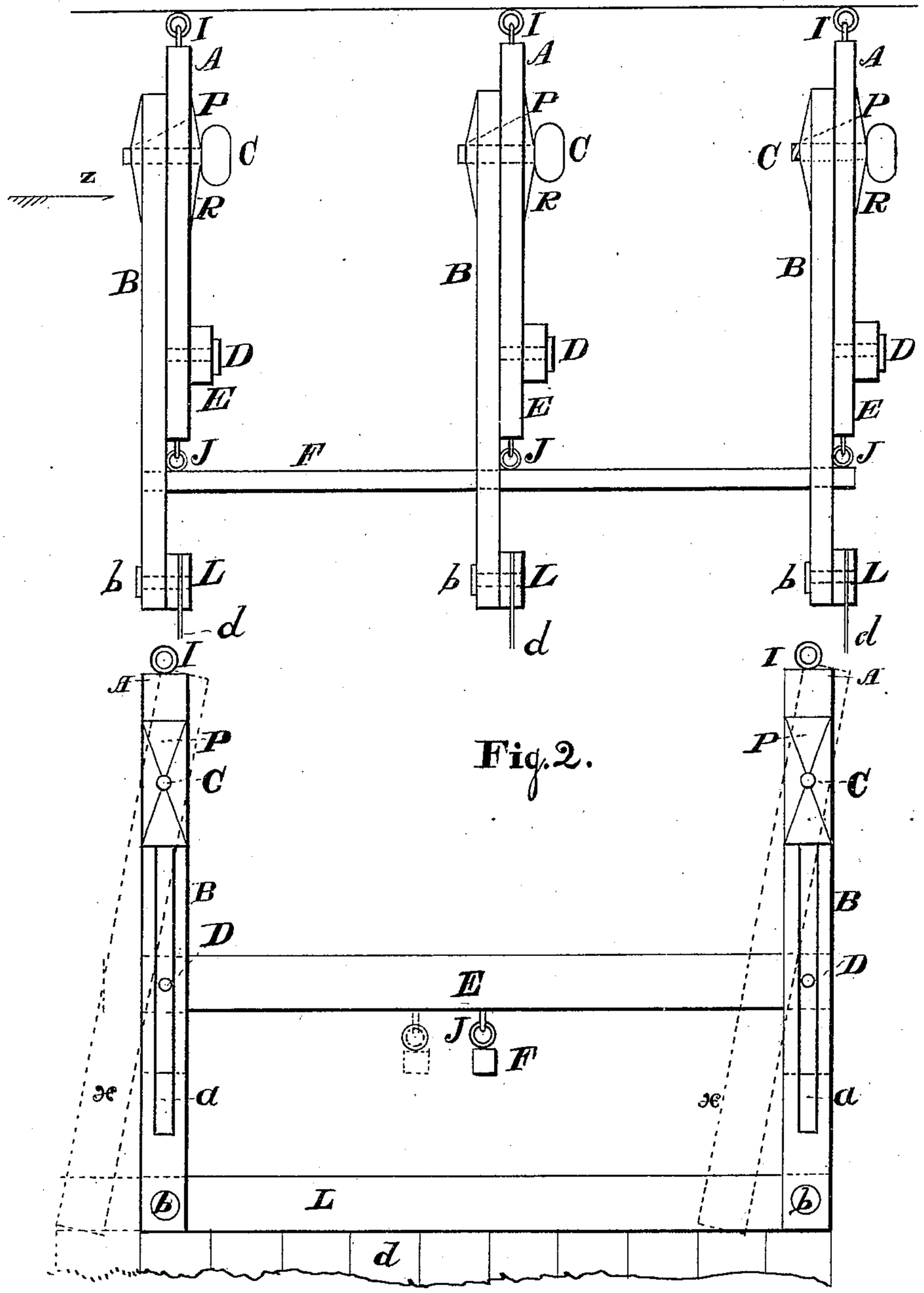

Fig. 2.

Witnesses.
Samuel M. Steele.
Wm Blancy

Inventor.
Alvin Lloyd.
By G. L. Chaplin. Atty.

UNITED STATES PATENT OFFICE.

ALVIN LLOYD, OF ALLERTON, IOWA.

FLY-FAN.

SPECIFICATION forming part of Letters Patent No. 252,885, dated January 31, 1882.

Application filed July 18, 1881. (No model.)

To all whom it may concern:

Be it known that I, ALVIN LLOYD, of Allerton, in the county of Wayne and State of Iowa, have invented new and useful Improvements in Fly-Brushes, of which the following is a specification, reference being had to the accompanying drawings, illustrating the improvement, in which—

Figure 1 is a side elevation of a fly-brush embodying my improvement; Fig. 2, an end elevation of Fig. 1, looking in the direction of dart *z*.

The object of the present invention is to provide a simple, cheap, and convenient mechanism, which may be suspended from a ceiling or other convenient place and put in operation, so as to keep off flies; and the nature of the invention consists in a series or two or more pairs of depending supports, which are constructed so as to extend down any required distance from the place to where they are jointed, or otherwise made longitudinally adjustable for that purpose, and have a side or oblique adjustment, so as to operate in other than vertical planes. The several parts are connected together by pivot-bolts and ring-staples, so as to have a free oscillating movement, as the whole is hereinafter to be fully described and shown.

A A, Fig. 2, is a pair of compound depending supports, which at their top ends are provided with suitable hanging-eyes, I I, to be suspended from a ceiling or other place, so as to oscillate. Placed flat against the parts A are supports B B, which are provided with slots *a a*, that they may be adjusted up or down on the supports A A and on the thumb-bolts C C, the shanks passing through the supports A A and through the slots *a a* in the supports B B, whereby when the bolts C C are loosened the supports B B may have an adjustment vertically on the supports A A to the extent which the slots *a a* will permit till the ceiling above interferes.

To prevent the marring of the wood, washers R may be placed on the supports A A, for the thumb-bolts C to pass through, corresponding to the nuts P, in which the shanks of the thumb-bolts are turned to clamp the supports together.

Tie E is bolted or riveted fast to the lower parts of the supports A, but not so tightly but that the supports may be turned obliquely to the tie. The object of this tie is to hold the lower ends of supports A at all times the same distance apart.

A two-part clamp, L, is held to the lower ends of the supports B B, that the material *d* of the brush may be held in position for use.

It is observed that the same bolts which hold the two-part clamp L to the supports B B hold the brush *d* in the clamp. Other bolts or screws may, however, be used in the central part of the clamp for holding the brush *d*. The supports A A B B and tie E form what I term a "single brush-frame;" but in practice two, three, or more single frames may be hung to the ceiling or other place in a room and connected together by a single rod, F, attached to the tie E, as shown at Fig. 2, by eye-staples J, or two rods may be hung from the lower parts of the supports A A, as shown at Fig. 1. One connecting-rod is all sufficient for a fly-brush four or five feet wide.

Fig. 1 represents three single brush-frames suspended from a ceiling. Suppose, now, after the several brush-frames are hung to a ceiling or other place to keep flies from a bed, couch, or table, the latter articles of furniture should be moved somewhat to one side and from under the brushes, the brushes can be swung obliquely to one side, as shown by dotted lines *x x*, Fig. 2, by loosening the bolts C and carrying the bottom of the frames to one side, using the bolts C as pivots. Then, tightening the bolts C, the frames will be held in diagonal positions for use, as shown at Fig. 2.

In the construction all of the material for the frames may be of wood except the bolts, screws, and hangings, paper or any desired material *d* being clamped in place, as shown, to drive the flies away. A very desirable point in construction is that the frames be both light and strong.

Having thus described my invention, I desire to secure by Letters Patent of the United States—

In fly-brushes, the single frames composed of the hanger-supports A A and the supports B B, arranged to be longitudinally adjusted thereon and be held obliquely to them by means of screw-bolts C C, in combination with the two-part clamping-bar L and one or more rods, F, for connecting two or more of the single frames, to have a uniform oscillating movement, as and for the purpose specified and shown.

ALVIN LLOYD.

Witnesses:
W. C. PITT,
J. Q. WORK.