H. T. TUSTEN.

Table Fan Attachments.

No. 152,884. Patented July 7, 1874.

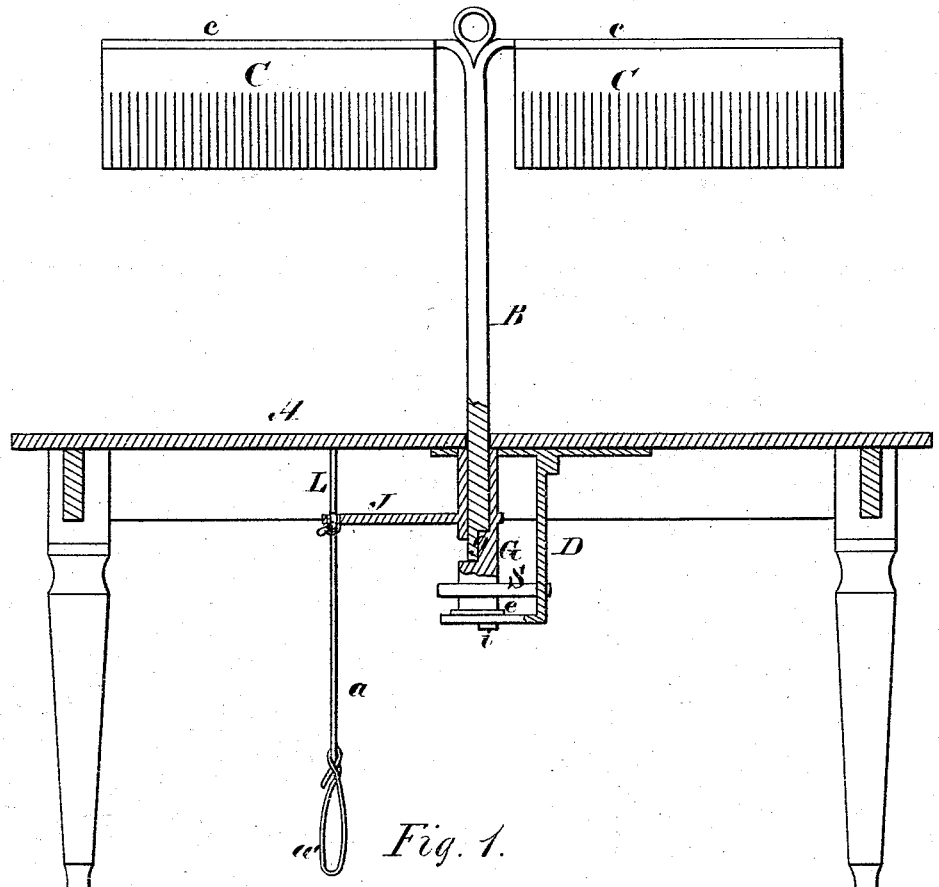

Fig. 1.

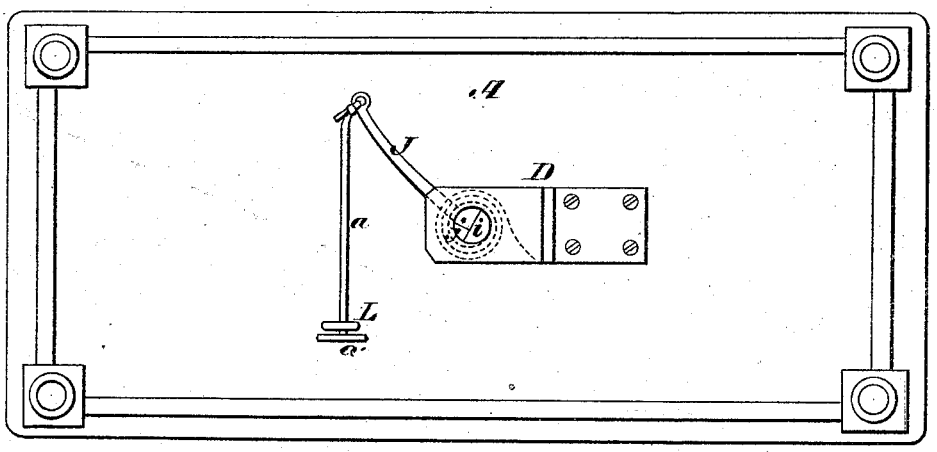

Fig. 2.

Witnesses.
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UNITED STATES PATENT OFFICE.

HIRAM T. TUSTEN, OF ABBEVILLE, SOUTH CAROLINA.

IMPROVEMENT IN TABLE-FAN ATTACHMENTS.

Specification forming part of Letters Patent No. **152,884**, dated July 7, 1874; application filed May 16, 1874.

To all whom it may concern:

Be it known that I, HIRAM T. TUSTEN, of Abbeville, in the county of Abbeville and State of South Carolina, have invented a new and valuable Improvement in Fly-Brushes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a section of my fly-brush. Fig. 2 is a bottom view of same.

The object of my invention is to combine an oscillating fly-brush with a dining-table in such manner that a person sitting at the table can conveniently work the brush by a slight motion of his foot, and, when the brush is not required, it can be readily removed from the table.

In the annexed drawings, A represents an ordinary dining-table, through the center of the cover of which a hole is made for receiving a vertical rod, B, to which brushes C C are applied by means of horizontal arms *c c*. (Shown in Fig. 1.) The lower end of the rod B is half-round, and fitted into a corresponding socket formed in the lower solid end of a tube, G, as shown at *g*, Fig. 1. The brush-rod B will thus oscillate with tube G, and, when desired, this rod can be lifted out of its tube and removed from the table. The tube G has its end bearings in a bracket, D, which is secured rigidly to the lower side of the table-cover, and this tube is supported in its bearings by means of an annular flange, *e*, which rests upon the foot of the bracket. (Shown in Fig. 1.) S represents a convolute spring, one end of which is made fast to the bracket D, and the other end is secured to the tube G after being coiled around the same. J represents an arm, which is secured to the tube G, and to which a cord, *a*, is attached. This cord is passed through the eye of a fixed pendant, L, and has a foot-loop, *a'*, formed on its lower end. The lower end of the tube G has a half-round extension, *i*, formed on it, which is held against V-shaped stop, *j*, on the bracket D, by means of the spring S, which is partly wound up for this purpose.

To operate the fly-brush, a person crosses one leg over the other, and, with the raised foot in the loop of the treadle-cord *a*, he depresses his foot and turns the brush-shaft B, which coils up the spring S; then, by raising the foot, the reaction of the spring gives another turn to the brush-shaft. By these up-and-down motions of the foot the brush-shaft receives an oscillating motion.

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

1. The brush-carrying rod B, passed through the table-top A, and coupled, at *g*, to an oscillating tube, G, having its bearings in a bracket, D, beneath the table-top, as shown and described, for the purpose set forth.

2. The tube G, constructed to receive and couple with the removable brush-shaft B, in combination with the spring S, arm J, pendant L, and looped treadle-cord *a*, substantially as and for the purposes described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HIRAM T. TUSTEN.

Witnesses:
L. M. PERRIN,
T. P. QUARLES.