J. D. ALVORD.

TABLE LEAF SUPPORTS.

No. 180,740. Patented Aug. 8, 1876.

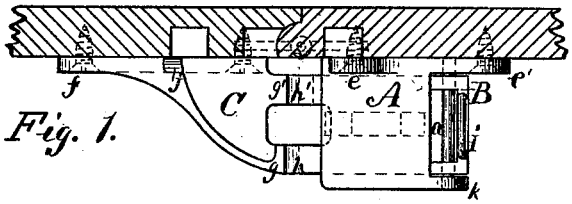


Fig. 1.

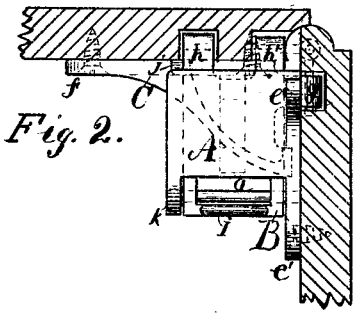


Fig. 2.

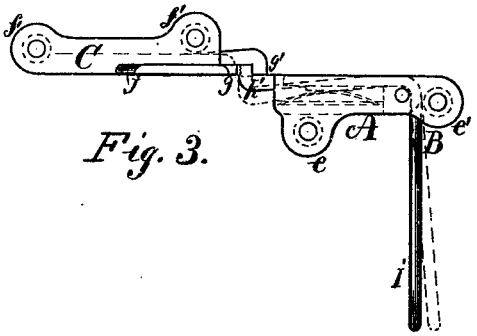


Fig. 3.

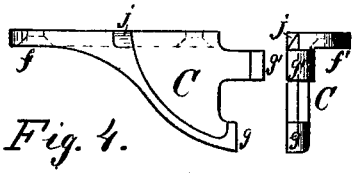
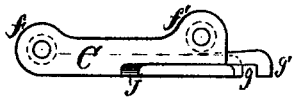


Fig. 4.



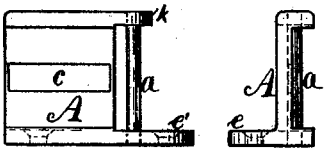
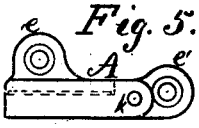


Fig. 5.



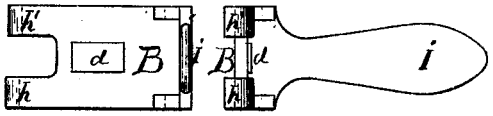


Fig. 6.

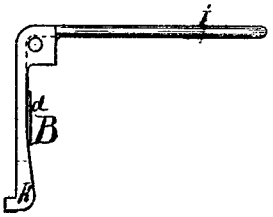
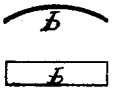


Fig. 7.



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UNITED STATES PATENT OFFICE.

JOSEPH D. ALVORD, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN TABLE-LEAF SUPPORTS.

Specification forming part of Letters Patent No. **180,740**, dated August 8, 1876; application filed July 17, 1876.

To all whom it may concern:

Be it known that I, JOSEPH D. ALVORD, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and Improved Table-Leaf Support; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification.

The object of my invention is to firmly support and securely lock the leaf of a sewing-machine or other table, when raised to its highest point, and, at the same time, lessen the strain of said leaf upon the hinges, and also to partially secure the leaf when lowered, so as to prevent the shaking and rattling of the same when the table is moved about, as will hereinafter appear.

I will now proceed to describe the construction and operation of my improved table-leaf support, with reference to the accompanying drawings.

Similar letters of reference indicate corresponding parts.

Figure 1 is a side view of my improved table-leaf support applied to a section of a table and leaf, showing the position of the several parts when the leaf is raised to its highest point. Fig. 2 is also a side view of the same, showing the position of the parts when the leaf is lowered. Fig. 3 is a top view of the support removed from the table. Fig. 4 is a detached view of the catch, showing the side, end, and top of the same. Fig. 5 is a detached view of the body of the support, showing the side, end, and top of the same. Fig. 6 is a detached view of the lever, showing the side, end, and top of the same. Fig. 7 is a side and top view of the spring applied to the support.

A is the body of the support. B is the lever. C is the catch. *a* is a rivet in the body of the support, to which the lever B is pivoted. *b* is a spring inserted between the body A and lever B. *c* is a recess in the body A, to receive the ends of the spring *b* and keep the same in position. *d* is a projection on the lever B, which presses against the center of the spring *b*. *e e'* are ears on the body A to secure the same to the leaf of a table. *f f'* are ears on the catch C to secure the same to the table. *g g'* are projections on the catch C. *h h'* are projections on the lever B, which connect said lever with the catch C when the leaf is raised. *i* is the handle of the lever B.

I will now describe the operation of my improved table-leaf support, with reference to the accompanying drawings.

It is to be understood that this support is applied to the under side of a table and leaf by means of the ears on the same, in the manner shown in Fig. 1, the catch secured to the table, and the body to the leaf of the same, both being placed in such a position, with respect to each other and the hinges of the table, as to cause the projections on each to connect themselves in the manner shown, when said leaf is raised to its highest point, the projection *h* on the lever resting against the projection *g* on the catch, and the projection *h'* on said lever uniting with the projection *g'* on said catch, the lever being retained in position by the force of the spring *b*, thus firmly supporting and securely locking the leaf when raised to its highest point, and lessening the strain of said leaf upon the hinges of the same.

When it is desired to lower the leaf of the table, the handle *i* of the lever B is pulled in the direction indicated by the broken outlines of the same, Fig. 3, which disconnects the projections *h h'* of said lever and the projections *g g'* of the catch from each other, respectively, and allows said leaf to fall to the position shown in Fig. 2, the projections *h h'* on the lever entering the openings made in the under side of the table, and the projection *g'* entering the opening made in the leaf of the table. When the parts are in this position the spring *b*, which is inserted between the body of the support and the lever B, forces a portion of the latter against the body of the catch, and causes pressure enough to prevent the leaf from shaking and rattling when the table is moved about. The beveled portion *j* on the top of the catch C is to facilitate the passing of the projection *h* on the lever B over the corner of said catch when the leaf is raised.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a table-leaf support, the body A, constructed with the vertical opening for the reception of the lever B, ears e' and k to receive the lever-rivet a, recess c for the reception of the spring b, and ears e and e' to secure the same to the leaf of a table, substantially as shown, in combination with the lever B and catch C, arranged as specified, for the object set forth.

2. In combination with the body A and catch C, the lever B, pivoted to the ears e' and k on said body, and constructed with the handle i for operating the same, and with the projections h and h', for the purpose of uniting with the projections g g' on said catch, when the leaf of the table is raised to its highest point, and supporting and locking said leaf, substantially as shown and set forth.

3. In combination with the body A and lever B, the catch C, constructed with the projections g g', to unite with the projections h h' on said lever, when the leaf of the table is raised to its highest point, substantially as shown, and with the beveled portion j, to facilitate the passing of the projection h over the corner of the catch when the leaf of the table is raised, and with the ears f and f', to secure said catch to the under side of a table, substantially as shown and set forth.

4. In combination with the body A, lever B, and catch C, the spring b, inserted between the body and lever, substantially as shown, for the purpose of retaining said lever in its proper position when the leaf of the table is raised to its highest point, and for pressing said lever against the body of said catch when the leaf is lowered, to prevent the same from shaking and rattling when moved about, as set forth.

5. In a table-leaf support, the combination of the body A, lever B, catch C, and spring b, all constructed and arranged to operate substantially as shown, and for the object set forth.

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