No. 633,762. Patented Sept. 26, 1899.

C. F. KADE.

FOLDING TABLE.

(Application filed Feb. 17, 1899.)

(No Model.)

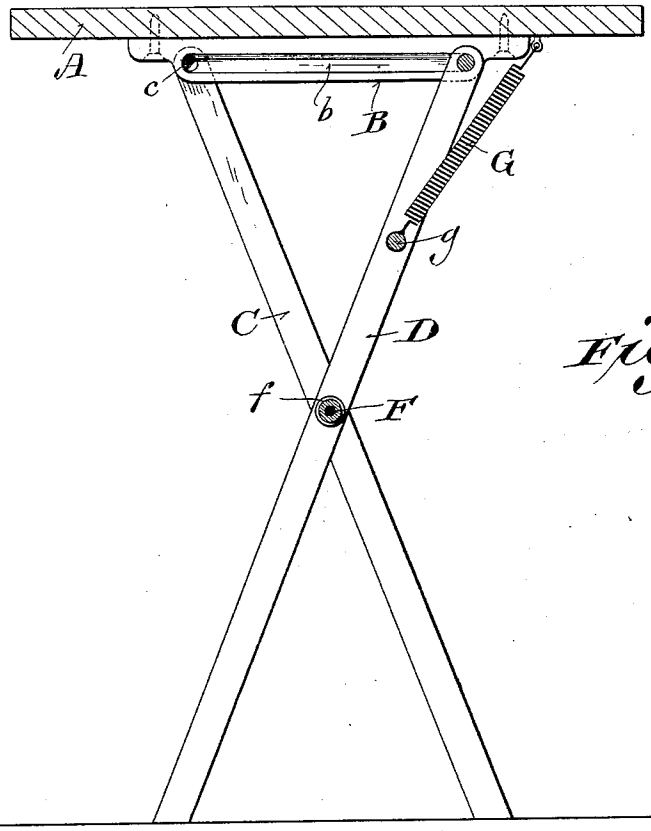
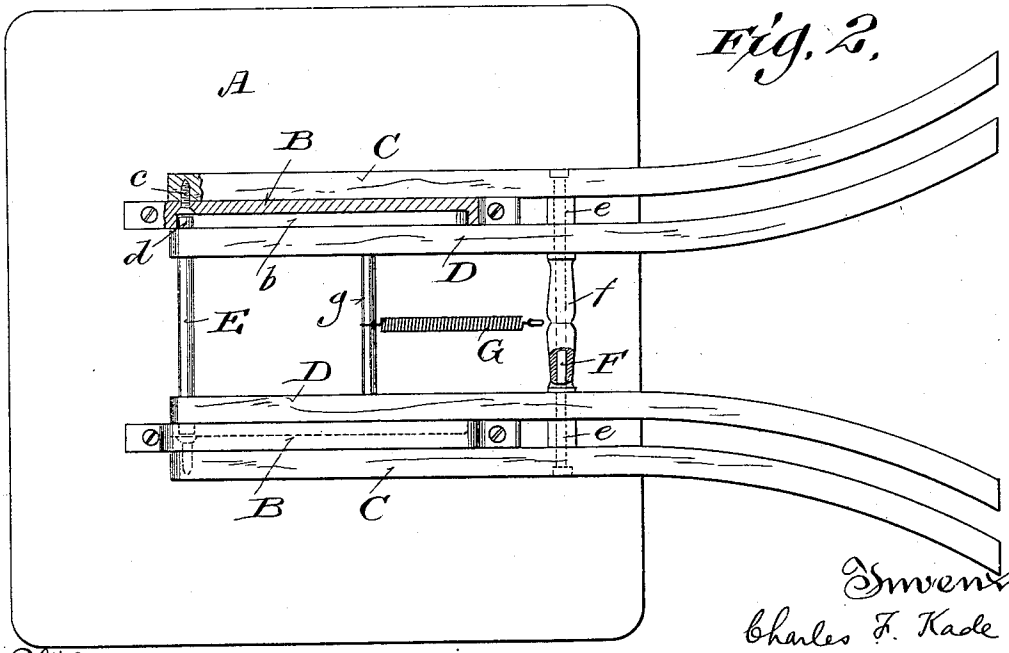


Fig. 1.

Fig. 2.



Witnesses:
Geo. N. Young.
N. E. Oliphant

Inventor
Charles F. Kade
By H. G. Underwood
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES F. KADE, OF SHEBOYGAN, WISCONSIN, ASSIGNOR TO KATHARINE FRANCIS WINTER AND ISABELLA FRANCIS KADE, OF SAME PLACE.

FOLDING TABLE.

SPECIFICATION forming part of Letters Patent No. 633,762, dated September 26, 1899.

Application filed February 17, 1899. Serial No. 705,788. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. KADE, a citizen of the United States, and a resident of Sheboygan, in the county of Sheboygan and State of Wisconsin, have invented certain new and useful Improvements in Folding Tables; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide simple, strong, and economical folding tables devoid of hinges and very compact when collapsed.

Therefore said invention consists in certain peculiarities of construction and combination of parts hereinafter set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a sectional view of one of my improved folding tables set up for use, and Fig. 2 a plan view of the table collapsed.

Referring by letter to the drawings, A represents the top of the aforesaid table, having its under side provided with a pair of parallel cleats B, arranged at a predetermined distance apart, and each of these cleats has an inner side longitudinal recess *b*, rounded at its ends. A pair of legs C have their upper ends in pivotal connection with the cleats B, the pivots being preferably screws *c*, having their heads concealed within the cleat-recesses at terminals of the same. Another pair of legs D have their upper ends connected by a cross-brace E, and rounded ends *d* of this brace projecting outside of the latter legs engage the cleat-recesses.

The design of the top and legs is immaterial and may be indefinitely varied. Intermediate of their extremities the legs in each pair are loose on a rod F, headed at its ends in the outer legs, and spacing-sleeves *e f* are arranged on the rod in the intervals between legs.

Fast to the middle of a cross-piece or round *g*, connecting the legs D above rod F, is one end of a spiral spring G, the other end of this spring being made fast to the under side of the table-top on a line midway of the cleats B, above specified.

When the table is collapsed, all of its legs are parallel with the under side of top A, close against the same. The collapsed table being stood upon its legs and its top lifted, there will be tension of spring G exertive to draw the upper ends of legs D from the position shown in Fig. 2 to that shown in Fig. 1, the ends *c* of brace E moving along in the cleat-recesses *b*, with which they are engaged, and said legs being then crossed with the legs C on the rod F the table is set up for use.

To collapse the table, the legs D are caused to come parallel with the ones C, and incidental to this operation there will be tension on the part of spring G to swing the top of said table parallel to all of said legs, it being understood that while said spring has no tension except when the table is being set up or collapsed it acts as a resistance against automatic movement on the part of the top and legs, or, in other words, it operates to keep the table set up or collapsed, as the case may be.

The disposition of the cleats and legs is such that said legs are out of the way of the knees of persons seated at the table, and the setting up and collapsing of the latter may be easily effected without danger to the hands of the operator.

While I have shown a preferred construction and arrangement of parts, the details of the same may be somewhat varied without departure from my invention.

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

1. A folding table comprising a top provided with a pair of parallel under side cleats having longitudinal recesses, a pair of legs having their upper ends in pivotal connection with the cleats, another pair of legs provided with upper end projections engaging the cleat-recesses, a rod having loose engagement with all the legs, intermediate of their extremities, a cross-piece above the rod between those of the legs having the aforesaid projections, and a spiral spring connecting the table-top with said cross-piece.

2. A folding table comprising a top provided with a pair of parallel under side cleats having longitudinal recesses, a pair of legs

having their upper ends engaged by screws extending through the cleats at extremities of the recesses therein, another pair of legs provided with an upper cross-brace having projecting ends engaging the cleat-recesses, a rod having loose engagement with all the legs intermediate of their extremities, spacing-sleeves on the rod in the intervals between legs, a cross-piece above the rod between those of the legs in union with the aforesaid cross-brace, and a spiral spring connecting the table-top with said cross-piece.

3. A folding table comprising a top, provided with a pair of parallel under side cleats having longitudinal recesses, two pairs of legs on a common pivot intermediate of their extremities, pivots connecting the upper ends of one pair of legs with the cleats, projections on the other pair of legs engaging the cleat-recesses, and a spiral spring in connection with the table-top and latter pair of legs.

4. A folding table comprising a top provided with a pair of under side cleats, a pair of legs having their upper ends in sliding pivotal connection with the cleats, another pair of legs in pivotal connection with the ones aforesaid, fixed pivots for the upper ends of the second pair of legs, and a spiral spring connecting the table-top with a cross-piece between the first pair of legs.

In testimony that I claim the foregoing I have hereunto set my hand, at Sheboygan, in the county of Sheboygan and State of Wisconsin, in the presence of two witnesses.

CHARLES F. KADE.

Witnesses:

PETER J. PETERSON,

FRED H. POETLING.