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G. E. BILTON

FALL LEAF TABLE

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GEORGE E. BILTON, OF TORONTO, ONTARIO, CANADA.

FALL-LEAF TABLE.

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one end so as to fold close in against the To all whom it may concern: Be it known that I, GEORGE E. BILTON, a frame as shown in Figure 3, or to be swung subject of the King of Great Britain, and outwardly to almost a right angular posi-

5 York, Province of Ontario, in the Dominion as to support the leaves 3 well out toward of Canada, have invented certain new and their outer edges when extended, the outer useful Improvements in a Fall-Leaf Table, posts 5 of the legs extending to the floor. described in the following specification and Upon the underside of the leaves 3 are se-10 that form part of the same.

The principal objects of the invention are, to devise a table in which the leaves co-operate with the legs in opening or closing, so that upon the raising of the leaf the leg will 15 automatically move out to support the leaf and the leg may be moved inwardly by pressing down upon the leaf after it is first re- legs will engage the sloping surface and leased, or the leaf will move inwardly with the leg as it is moved into its closed position, 20 thereby ensuring the proper support of the leaves and the stability of the table and providing a table which may be folded into very small compass but which may be extended to present a large top area. The principal features of the invention ward movement of the legs. 25consists in the arrangement of an inclined When the legs are moved to their outersurface on the underside of the leaf to be most position as illustrated in Figures 1 engaged by the movable gate leg to raise the and 2 they will rigidly support the leaves 30 in the novel manner of automatic operation their hinges in an inward direction to clear of the leg to move outwardly upon the rais- the flat surfaces 8 before the leaves can be ing of the table top.

resident of the city of Toronto, county of tion, as illustrated in Figures 1, 2 and 4 so 60 illustrated in the accompanying drawings, cured the brackets 6 which are formed with 65 inclined under surfaces 7 which taper inwardly or upwardly toward the inner edges of the leaves. These brackets are set preferably at an angle of about forty five degrees to the longitudinal sides of the leaf and are 70 arranged in the path of the outward movement of the legs so that the top bars of the sliding thereunder lift the leaves.

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Each bracket is provided with a squared 5surface 8 at the outward end which when the leaf is fully extended rests upon the top of the leg structure.

Suitable stop lugs 9 are formed at the outward ends of the brackets to limit the out-⁸⁰

35 broken away to disclose the means for operating the gate legs.

Figure $\overline{2}$ is an elevational view on a smaller scale showing the legs extended.

Figure 3 is an elevational view showing 40 the legs and leaves in the closed position.

Figure 4 is a small underside diagrammatic plan view showing an arrangement of double coupled gate legs.

Gate leg tables are desirable principally

leaf and hold it in its raised position, and and require to be swung slightly upon 85 closed. Then the legs can be swung in-In the drawings, Figure 1 is a perspective wardly with the hand or with the foot or view of a table showing the leaves partly a downward pressure upon the leaf through 90 the inclined surface of the bracket will cause the leg to swing inwardly.

It is extremely desirable that the legs be operated with the leaves and two different forms are shown. In one form a 95 length of chain or cord 10 is secured at one end to the underside of the leaf and at the other end to the leg so that when the leaf is lifted the chain pulls the leg outwardly. A short coil spring 11 is inserted in the 100

- 45 because they can be closed to small dimen- chain so that its spring pull will carry the sions but will when opened out present a leg outward to its stop and hold it selarge top area which is rigidly supported curely in its outward position.
- from the floor. In the accompanying drawings the main 50 frame 1 of the table is of any suitable design leg and slides through a support in the having the rigid top 2 projecting beyond the frame.
 - To the longitudinal edges of the top 2 are hinged the leaves 3.
- The legs 4 are preferably of the gate type 55 hinged to the frame 1 preferably adjacent to

In the other form shown a rod 12 is pivotally attached to the inner side of the 105 table frame and a coil compression spring 13 encircles the rod. Upon the lifting of the leaf the compression spring 13 forces the leg outwardly. A sliding leg may be 110 similarly operated to engage the bevelled bracket on the underside of the leaf.

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In Figure 4 I show a pair of legs cou- the side thereof to swing in a vertical plane operate together.

5 merely necessary to lift the leaf and the leg the outer end of the leg, said bracket havwill automatically move outwardly and lock to hold the leaf raised.

When it is desired to lower the leaf the leg is pushed inwardly a short distance tion. 10 and the leaf will fall with it, or if the leg 2. A fall leaf table, comprising, a rigid is pushed inwardly until sufficient to re- frame, a leg shorter than the frame hinged tion of the block 6, a downward pressure to swing in a vertical plane, a leaf hinged on the leaf will move the leg to its closed to the table top, a beveled block angularly 15 position. arranged on the underside of the table top This construction and arrangement ob- adapted to engage the leg and rest upon as either the leaf or the leg will operate nected to the table top and to the leg to with the operation of the complement mem- pull the leg outwardly on the raising of ber. the table top, and a spiral spring arranged 20° What I claim as my invention is:within a loop of said flexible member.

pled together by a link 14 so that both will and resting on the floor, a leaf hinged to 25 the table top, and a bevelled bracket secured In using a table such as described it is to the underside of the table top to engage ing a portion parallel with and spaced from the table top to rest upon the top of the 30 leg when said leg is in its extended posi-

lease it from the lock on the squared por- at the side of the frame toward one end 35 viates breakage through careless handling the top thereof, a flexible member con- 40

1. A fall leaf table, comprising, a frame, a leg shorter than the frame and hinged to

GEO. E. BILTON.