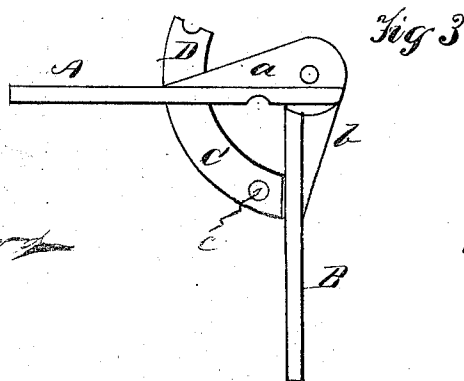
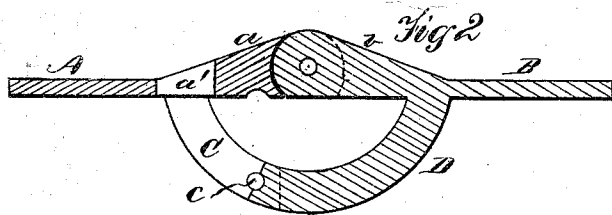
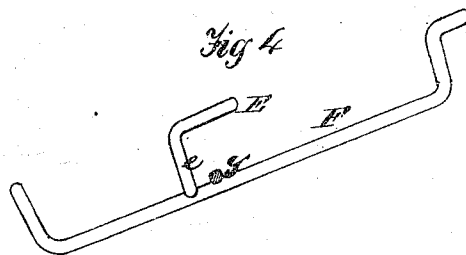
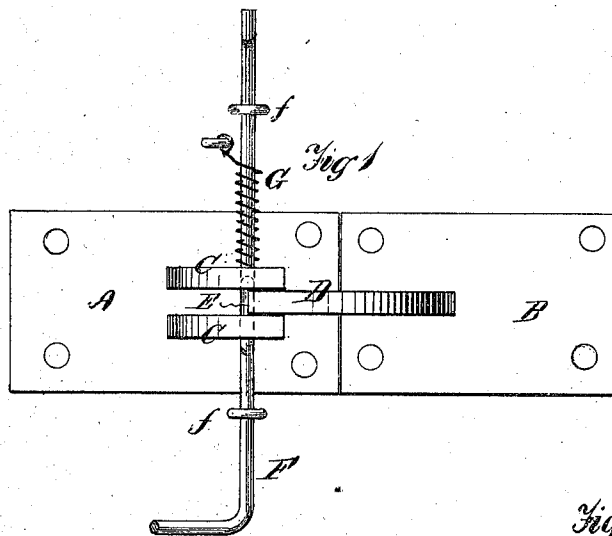


W. F. DALY.
Table-Hinges.

No. 142,210.

Patented August 26, 1873.



Witnesses
W. Bradford
A. Ruppert.

W. F. Daly
Inventor
D. P. Holloway & Co
Attys.

UNITED STATES PATENT OFFICE.

WILLIAM F. DALY, OF PERU, INDIANA, ASSIGNOR OF ONE-HALF HIS RIGHT
TO EDWIN D. OLIN, OF SAME PLACE.

IMPROVEMENT IN TABLE-HINGES.

Specification forming part of Letters Patent No. **142,210**, dated August 26, 1873; application filed
June 28, 1873.

CASE B.

To all whom it may concern:

Be it known that I, WILLIAM F. DALY, of Peru, in the county of Miami and State of Indiana, have invented a certain Improvement in Hinges, of which the following is a specification:

This invention relates to that class of hinges which, being more especially designed for connecting a folding leaf with a table, desk, or the like, are so constructed as to support the leaf when turned up into a horizontal position without the use of the ordinary fly-rail. My improvement consists in combining, with one or more segmental arms formed upon the exterior side of each plate of the hinge, a spring-bolt in such a manner that when the leaf is turned up the bolt will automatically slide through or behind the end of the arm on the movable plate of the hinge and form an abutment for said arm, which then constitutes a brace for supporting the movable plate of the hinge firmly in its extended position.

Figure 1 is a plan view of my improved hinge, showing its exterior side. Fig. 2 is a longitudinal section. Fig. 3 is a side elevation, showing the hinge folded. Fig. 4 illustrates, in perspective, the spring lock-bolt.

The same letters of reference are used in all the figures in the designation of identical parts.

The plates A and B of the hinge, illustrated in the annexed drawings, are pivoted together in manner of a knuckle-joint, suitable wings *a* and *b* being formed on them for the reception of the pintle. The plate A, intended to be the fixed or stationary one, has two parallel segmental arms, C C, formed upon its exterior side, which, starting from about the middle of the plate, curve downward and forward in the arc of a circle, described over the axis of the pintle as the center. They terminate at a line allowing the plate B to be folded down to a right angle with the plate A, as shown in Fig. 3. A similar segmental arm, D, is formed upon the exterior side of the movable plate B of the hinge. This arm is, however, somewhat longer than the arms C, between which it moves, a slot, *a'*, being cut in the plate A between its arms to let the arm D pass through it, and thus permit the folding of the movable plate to the extent stated. The end of the arm D is still between the arms C when the hinge is in the extended

position shown in Fig. 2, and the moment it assumes that position a bolt, E, playing through holes *c* in the arms C, springs or slides behind its end, and thus prevents the turning down of the plate B until withdrawn by hand. The bolt E is part of a sliding bar, F, which moves in staples or guides *f* across the fixed plate A of the hinge, being actuated by a spiral spring, G, which, encircling the bar, is fastened at one end to a stud, *g*, thereon, and secured with its other end to a fixed staple or similar device. The bar is provided with a handle at each end, by means of which it may be conveniently drawn or pushed to withdraw the bolt E from behind the arm D. The standard *e* of the bolt properly limits the movements of the sliding bar in both directions, by coming in contact either with one of the arms C or with the staple or guide *f* on that side. The bolt E, instead of sliding behind the end of arm D, may pass through holes therein, a series being provided to enable the bolt to support the plate at an inclination as well as horizontally.

I prefer, in all cases, to actuate the bolt by a spring to make it automatic in its locking action; but it may be operated altogether by hand.

I am aware that quadrant hinges, so termed, have heretofore been applied to tables to support a leaf in a horizontal position; but I believe myself to be the first who adapted an ordinary quadrant hinge, with rigid segmental arms, to such use, by combining with it an independent lock-bolt.

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

1. A hinge, the leaves A and B of which are provided with fixed and rigid segmental arms, in combination with an independent lock-bolt, with or without a spring, substantially as specified.

2. The combination, with the leaves A and B having segmental arms C and D, of the sliding bar F carrying the bolt E, and spiral spring G, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM F. DALY.

Witnesses:

JOS. M. BROWN,
THOS. D. OLIN.