(Model.)

J. D. DAVIS.

HINGE.

No. 458,100. Patented Aug. 18, 1891.

Fig. 1.

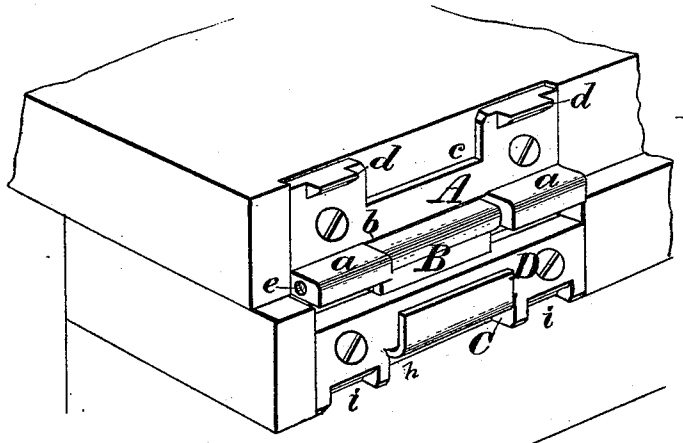


Fig. 2.

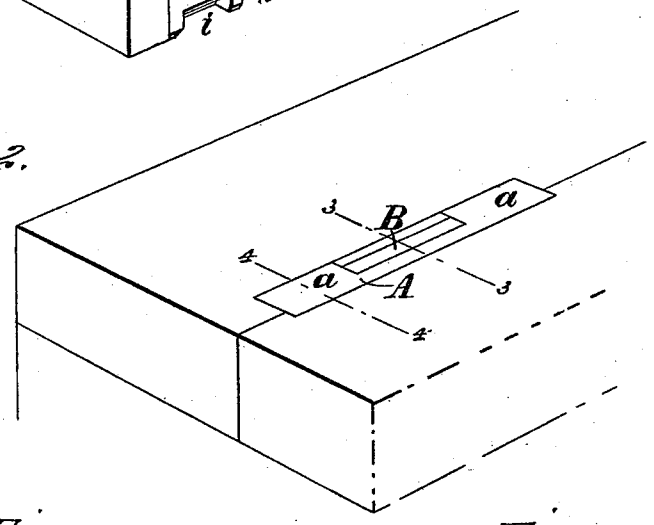


Fig. 3.

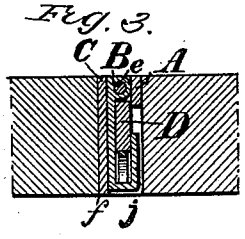


Fig. 4.

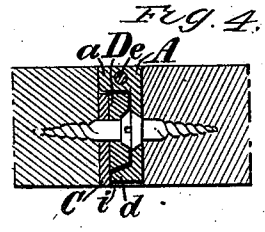
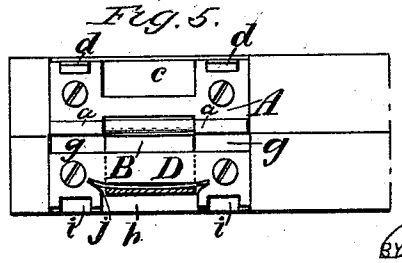


Fig. 5.



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UNITED STATES PATENT OFFICE.

JONATHAN D. DAVIS, OF BRIDGEPORT, CONNECTICUT.

HINGE.

SPECIFICATION forming part of Letters Patent No. 458,100, dated August 18, 1891.

Application filed February 25, 1891. Serial No. 382,801. (Model.)

To all whom it may concern:

Be it known that I, JONATHAN DUNLAP DAVIS, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and Improved Flush Hinge, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a perspective view of my improved flush hinge, showing the hinge open. Fig. 2 is a perspective view of the hinge, showing the hinge closed. Fig. 3 is a transverse section taken on line 3 3 in Fig. 2. Fig. 4 is a transverse section taken on line 4 4 in Fig. 2; and Fig. 5 is a front elevation of the open hinge, with a portion removed to show the spring.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to construct a flush hinge which will not project in either direction beyond the sides of the parts of the cover to which it is applied.

The invention consists in the particular construction and arrangement of parts as hereinafter fully described, and pointed out in the claims.

The angled plate A, forming one half of the hinge, is cut away upon opposite edges, forming ears *a*, with an intervening notch *b* at one edge of the plate and the notch *c* at the opposite edge of the plate. The portions of the plate at opposite ends of the notch *c* are provided with beveled lugs *d*, projecting outwardly from the plane of the plate. Upon a pintle *e*, passing longitudinally through the ears *a*, is pivoted one edge of the plate B. The other half C of the hinge is formed of a plate *f*, having notches *g* in the edge adjoining the plate A for receiving the ears *a*, and the plate D, which is secured to the plate *f*, is recessed at the back to receive the plate B and provided with a notch *h* for receiving the outwardly-bent portion of the plate B and with recesses *i* near the ends for receiving the lugs *d* projecting from the plate A. In the notch *h* is placed a curved spring *j*, the ends of which are secured in slots at the ends of the notch, and the free end of the plate B is bent over or returned parallel with itself, so as to embrace opposite sides of the plate D and inclose the spring *j*. As the cover is opened, the plate B is drawn out against the pressure of the spring *j* and the movable part of the cover is allowed to fold down over the fixed part and in contact therewith.

Where the hinge is used on covers that naturally lie in a horizontal position, the spring *j* may be omitted, and it is not essential that in all cases the plate B should be turned over parallel with itself, so as to partly inclose the plate D. Therefore in such cases the turned-over portion of the plate may be omitted. When the hinge is closed, the entrance of the lugs *d* into the recesses *i* prevents the longitudinal movement of one part of the hinge upon the other; but where there is no tendency to such longitudinal movement the lugs *d* and the recesses *i* may be dispensed with.

It is obvious that in the case of metal covers or doors the parts herein called "plates" may be formed integrally with the parts connected by the hinge, in which case the pivoted sliding piece and the pintle would be the only pieces additional to the cover or door, one of the parts of said cover or door being constructed with projections for supporting the pintle, the other part being provided with a slot or mortise parallel with the edge of the door for receiving the pivoted sliding plate.

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

1. A flush hinge formed of a pair of plates, a connecting-piece hinged to one of the plates and arranged to slide in a slot formed in the other plate in a plane parallel with the face thereof, and lugs projecting from one plate at opposite edges and near opposite ends and entering recesses in the other plate, substantially as specified.

2. A flush hinge comprising two plates fitted for attachment to the parts to which the hinge is to be applied, one plate being provided with notches in opposite edges and the other with a recess in its rear face, and a connecting-plate pivoted in one of the notches of one plate, sliding in the recess of the other plate, and having an outwardly-bent end, substantially as described.

3. In a flush hinge, the combination of the

plate A, having ears *a a*, the plate C, the recessed plate D, the angled plate B, adapted to slide in the recess of the plate D and pivoted between the ears *a a*, and the spring *j*, placed between the plate D and angled plate B, substantially as specified.

4. In a flush hinge, the combination of the plate A, having ears *a a*, the plates C D, and the pivoted spring-pressed plate B, substantially as specified.

JONATHAN D. DAVIS.

Witnesses:
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