

G. H. SCHIEK.
SEPARABLE HINGE.

APPLICATION FILED DEC. 22, 1902.

NO MODEL.

Fig. 1.

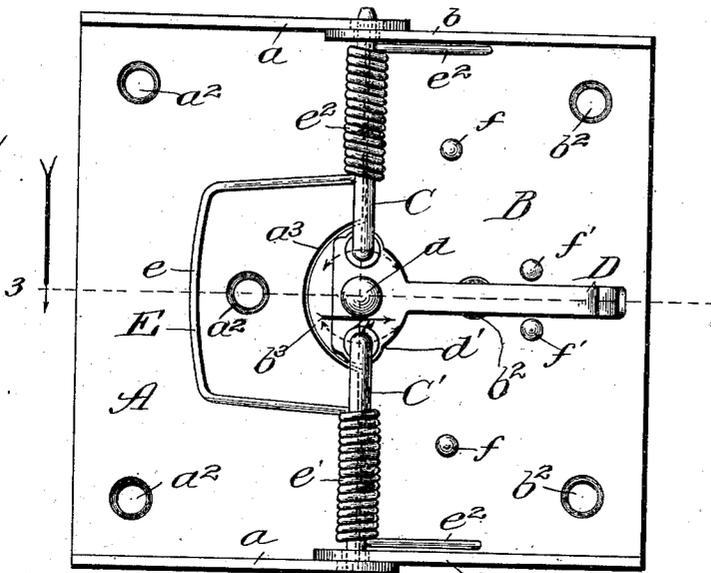


Fig. 2.

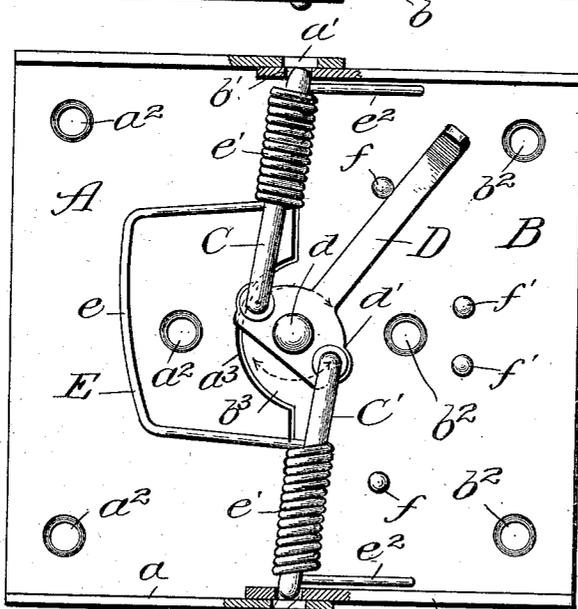
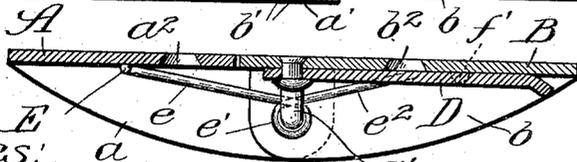
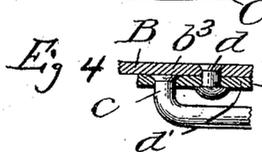


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE H. SCHIEK, OF JOLIET, ILLINOIS.

SEPARABLE HINGE.

SPECIFICATION forming part of Letters Patent No. 726,577, dated April 28, 1903.

Application filed December 22, 1902. Serial No. 136,224. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. SCHIEK, a citizen of the United States, residing at Joliet, in the county of Will and State of Illinois, have invented a new and useful Improvement in Separable Hinges, of which the following is a specification.

My invention relates particularly to separable spring-hinges—such, for instance, as are used upon screen-doors.

My primary object is to provide a hinge of this character of exceedingly simple construction and which may be separated with greater facility than hinges now in common use.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 represents an elevational view of the hinge as it appears upon the door; Fig. 2, a sectional view showing the lever turned and the pintle-sections withdrawn to permit the leaves of the hinge to be separated; Fig. 3, a section taken as indicated at line 3 of Fig. 1, and Fig. 4 a broken section taken as indicated at line 4 of Fig. 1.

A description of the preferred construction follows.

A represents one leaf of a hinge, having flanges *a* at its upper and lower ends, provided with pintle-receiving perforations *a'*, screw-receiving perforations *a''* in the body of the leaf, and a recess *a'''* at the inner lateral edge of the leaf; B, a hinge-leaf coacting with the leaf A and having at its upper and lower ends flanges *b*, provided with pintle-receiving perforations *b'*, screw-receiving perforations *b''* in the body of the leaf, and a bearing *b'''* at the inner lateral edge of the leaf and projecting into the recess *a'''*; C C', pintle-sections having their adjacent ends provided with downturned pivots *c*; D, a lever connected by a pivot *d* with the bearing *b'''* and having lateral arms *d'* at its base provided with perforations with which the pivots *c* of the pintle-sections connect, and E a spring having the central loop *e* bearing upon the leaf A, coils *e'* encircling the pintle-sections, and extremities *e''* bearing upon the leaf B.

The lugs or flanges *a* and *b* of the leaves preferably are of sufficient length to afford strengthening-ribs for the leaves, and the flanges *b* serve to prevent displacement of the

extremities of the spring. The leaf B is provided on its upper or outer surface with stops *f*, which limit the swinging movement of the lever in either direction, and with stops *f'*, which serve to hold the lever in its central position. These stops are preferably formed by stamping the metal of the leaf upwardly. The lever D lies flat upon the leaf B and swings in a plane parallel with the leaf. When desired, the lever may be sprung upwardly slightly and moved past either one of the stops *f'* and swung into engagement with one of the stops *f*. When the lever is in the position indicated in Fig. 2, the pintle-sections are withdrawn from the perforations *a'*, so that the leaves of the hinge may be readily separated.

In practice the leaf A is connected with the door-jam and the leaf B with the door, and when it is desired to hinge the door the lever D occupies the position shown in Fig. 2. It is necessary only to bring the hinge-sections together properly, with the loop *e* of the spring bearing upon the outer surface of the leaf A. When the leaves are properly located, the lever may be swung to its central position, in which position the pintle-sections engage the perforations *a'*.

It is evident that the improved hinge may be applied to the door by securing either leaf to the door as desired.

Changes in details of construction within the spirit of my invention may be made. Hence no undue limitation should be understood from the foregoing detailed description, which has been given for clearness of understanding only.

What I regard as new, and desire to secure by Letters Patent, is—

1. In a hinge, the combination with two hinge-sections arranged edge to edge and provided at adjacent edges with suitable alined pintle-receiving perforations, oppositely-moving pintle-sections entering said perforations and a lever located between said pintle-sections and pivotally joined to one leaf near the inner edge thereof and connected with the adjacent ends of said pintle-sections, for the purpose set forth.

2. In a hinge, the combination of a leaf provided at its end portions with pintle-receiving perforations, and at one edge with a re-

cess, a second leaf provided at its end portions with pintle-receiving perforations and at one edge with a bearing projecting into said recess, a lever pivotally connected with said bearing, and pintle-sections connected with said lever, for the purpose set forth.

3. A hinge comprising two leaves provided at their upper and lower portions with pintle-receiving perforations, a lever pivotally connected with one leaf near its inner verti-

cal edge, and pintle-sections connected with said lever above and below the pivot thereof, and a stop on the upper surface of said leaf for engaging said lever, for the purpose set forth.

GEORGE H. SCHIEK.

In presence of—

ALBERT D. BACCI,

WM. B. DAVIES.