

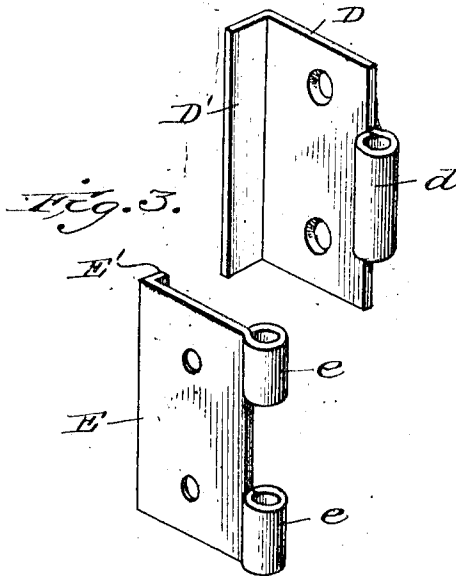
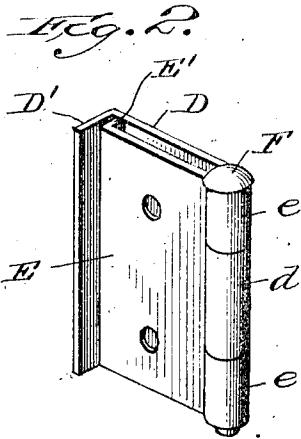
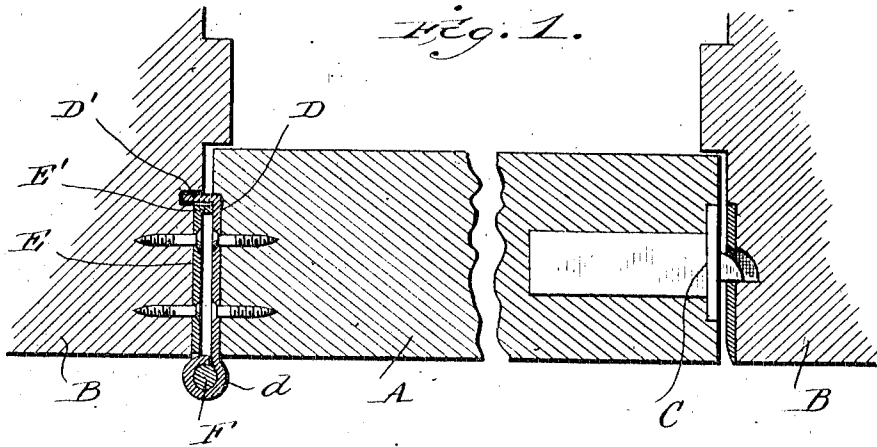
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HINGE.

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1,105,666.

Patented Aug. 4, 1914.



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UNITED STATES PATENT OFFICE.

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HINGE.

1,105,666.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GERALD M. JOHNSON, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Hinges; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, and to the figures and letters of reference marked thereon.

With the separable leaf hinges commonly employed for supporting the doors of apartments, closets, etc., it is a comparatively easy matter to gain access through the door opening by removing the pintle which separably connects the leaves of the hinge and opening the door from the back edge. This means of entry is one which is commonly adopted by unauthorized persons to enter closets and apartments and it is especially prevalent in apartment houses of the present day where the entrance doors are made to open outwardly and consequently the pintles of the hinges are exposed in the public hallways.

The present invention is designed to overcome this defect by providing the leaf of the hinge which is secured to the door with an edge projection adapted to overlap the corresponding edge of the other leaf when the door is in closed position, thus forming a locking tongue at the back edge which will prevent its outward movement even though the pintle of the hinge be entirely removed.

Referring to the accompanying drawings Figure 1 is a section in a horizontal plane with portions broken away, through a door and door jamb, having a hinge embodying the present improvements. Fig. 2 is a perspective view of the simple form of hinge adopted for illustrating the invention; and Fig. 3 is a similar view with the two leaves separated.

Like letters of reference indicate the same parts throughout all the figures.

In Fig. 1 of the drawings the letter A indicates the door, B the door jamb and C an ordinary catch for holding the door closed. The hinge which connects the back end of the door and jamb is formed by leaves D and E having separable pintle bearings *d* and *e* at one edge in which a removable pintle F is mounted for pivotally connecting the edges of the leaves together.

The opposite or free edges of the leaves are provided with overlapping projections preferably formed by bending the edges of the leaves in opposite directions. Thus, as shown, the leaf D is provided with an edge projection D' arranged at substantially right angles to the plane of the leaf and of sufficient length to overlap the corresponding edge of the leaf E and project a sufficient distance to prevent its disengagement should the pintle be removed and the door forced against the jamb at its front or latch edge. In order that the length of the projection D' at right angles to the body of the leaf may be made less than would otherwise be the case, the cooperating leaf E is also provided with a projection E' which extends in an opposite direction from the projection D'. The projection E' is of such length that it will arrest the movement of the leaves toward each other when they are in normal parallel position, as shown in Fig. 1, but it forms, as it were, an extension of the edge of the leaf against which the projection D' will seat should the pintle be removed and an attempt made to open the door from its rear edge.

Obviously, the hinge leaves may be made as ornate or ornamental as desired, and it is, therefore, not the intention to limit the invention to the particular type of hinge illustrated although it is a simple form which lends itself conveniently to the purpose.

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

1. A hinge embodying leaves separably connected by a pivotal joint at one edge, the free edge of one of said leaves being provided with a projection extending at substantially right angles to the plane of the leaf and overlapping the edge of the other leaf when the leaves are in closed position.

2. A hinge embodying leaves having pintle bearings at one edge, one of said leaves being provided with a projection extending along the entire length of its free edge and overlapping the corresponding edge of the other leaf when the leaves are folded together and a removable pintle for separably connecting the leaves.

3. A hinge embodying leaves separably connected by a pivotal joint at one edge, the opposite or free edges of the leaves being formed with projections at substantially

right angles to the planes of the leaves, said projections overlapping each other when the leaves are folded together.

4. A hinge embodying leaves separably
5 connected at one edge by a pivotal joint, the opposite or free edges of the leaves being formed with oppositely directed edge flanges

extending the length of the leaves and overlapping each other when the hinges are folded together.

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