J. HAUER.

HINGE.

APPLICATION FILED MAR. 14, 1910.

975,131. Patented Nov. 8, 1910.

Fig. 1.

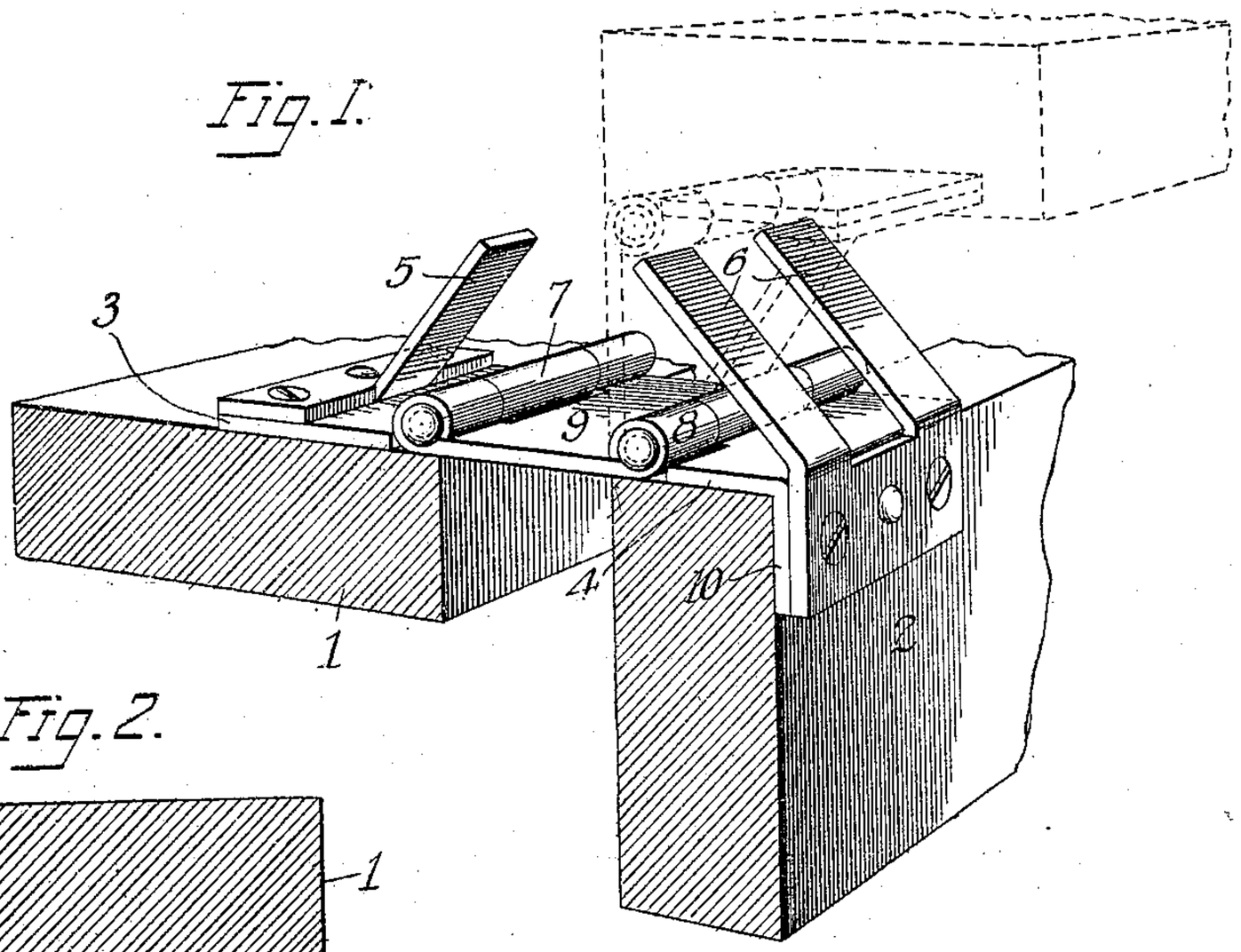


Fig. 2.

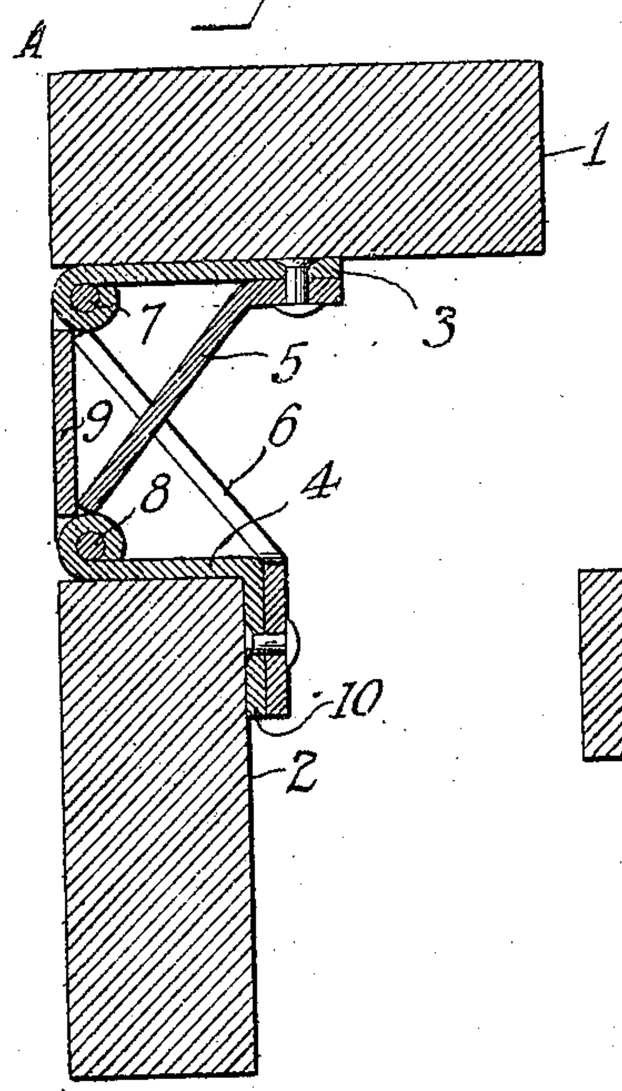
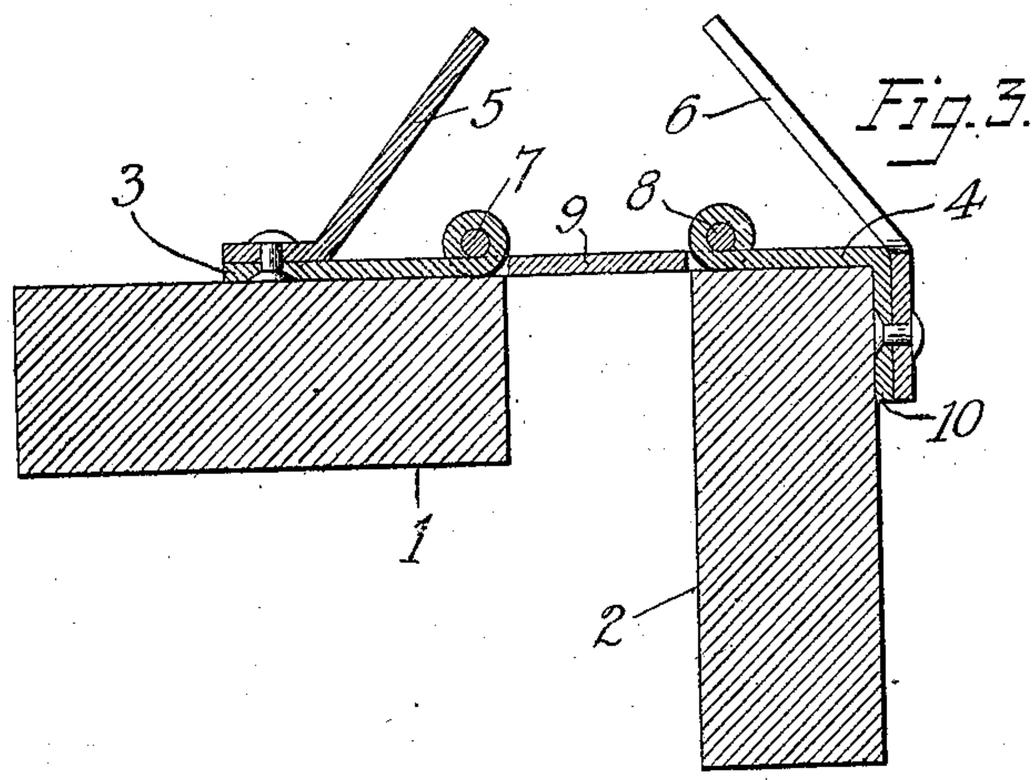


Fig. 3.



A

Witnesses
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UNITED STATES PATENT OFFICE.

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HINGE.

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To all whom it may concern:

Be it known that I, JOSEPH HAUER, a citizen of the United States of America, and a resident of Chicago, county of Cook, State of Illinois, have invented certain new and useful Improvements in Hinges, of which the following is a specification.

In the ordinary use of the common two leafed hinge, as applied to folding davenports, the joint projects beyond the edge of the frame to which it is attached in order to afford sufficient space for upholstering between the opposed faces of the standing and folding parts of the davenport when in its bed position.

The main objects of this invention are to provide an improved hinge which will allow front faces of the standing and folding parts of the davenport to be substantially flush when in the folded position and to be spaced apart to allow room for the upholstery when in the open position without having any part of the hinge project beyond the plane of the front faces when in the folded position; and to provide an improved arrangement of stops which will prevent the collapsing or closing of the hinge beyond a given position.

A specific embodiment of this invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a perspective of the hinge in an open position, and showing the closed position by the dotted lines. Fig. 2 is a transverse sectional view of the hinge in a closed position. Fig. 3 is a transverse sectional view of the hinge in the open position.

In the construction shown in the drawings, the various parts of the hinge are arranged so as to be suitable for attaching the folding seat section of a davenport. The bars 1 and 2 are the members of seat section and frame of the davenport which are at the front and which the plates 3 and 4 of the hinge are attached. These plates are provided with stops 5 and 6 in the form of braces disposed at an angle to the respective hinge plates and securely riveted thereto. The joints 7 and 8 of the hinge are similar to the usual forms, but are located inward of the front faces of the parts 1 and 2. The plate or link 9 is interposed between the joints 7 and 8, and is designed to afford suitable space between the members 1 and 2 for the accommodation of upholstering or other intervening material when the davenport is in the open position. The stops 5 and 6 are preferably so disposed as to abut snugly within the angles of the joints 7 and 8 respectively and provide rigid bracing for the part 9 when in its vertical position. Fig. 1 also shows the flush front surface A—A of the davenport when closed.

To add strength and rigidity to the connection of the plate 4 to the bar 2, the plate 4 is bent to a right angle to fit over the inner corner of the part 2 and the depending part 10 is fastened to the rear face of the bar 2. In the form shown, there are two stops 6 located at opposite sides of a central stop 5.

Although but one specific embodiment of this invention is herein shown, it will be understood that some details of the construction shown may be altered or omitted without departing from the spirit of this invention.

I claim:—

1. A hinge, comprising a plurality of flat plates hinged together on axes substantially parallel to the plane of one of the adjacent plates to permit relative movement in one plane with respect to a plurality of different joints, and stops projecting from one or more of said plates and abutting against others for limiting the movement at each of said joints.

2. A hinge, comprising a plurality of flat plates hinged together to permit relative movement in one plane with respect to a plurality of different joints, and stops projecting from one or more of said plates and abutting against others for limiting the movement at each of said joints, each of said stops being disposed at an angle to the plate to which it is secured and located to engage the joint between two other plates.

3. A hinge, comprising three plates hinged together end to end to permit relative motion about two joints spaced apart, a stop on one of said plates located to engage the joint between the other two for limiting the movement of said one plate with respect to another.

4. A hinge, comprising an inner plate and two outer plates respectively hinged to opposite ends of said inner plate, each of said outer plates having thereon a stop inclined at an angle thereto and adapted to engage said inner plate adjacent to its joint with the other outer plate.

5. A hinge, comprising an inner plate and two outer plates respectively hinged to opposite ends of said inner plate, one of said outer plates having thereon a stop inclined at an angle thereto and adapted to engage said inner plate adjacent to its joint with the other outer plate.

6. A pair of parts hinged together and having faces lying substantially in the same plane and a plural jointed hinge connecting said parts and having its axes located inward from the plane of said faces, said hinge being adapted to permit one of said parts to be turned outward through an angle of 180 degrees with respect to the other.

7. In a hinge, the combination of a pair of joints spaced apart, a plate intervening between said joints, an outer plate revolving upon each of said joints respectively, and stops superimposed upon said outer plates, said stops having free ends abutting snugly against the shoulders formed by respectively different joints.

Signed at Chicago this 12th day of March 1910.

JOSEPH HAUER.

Witnesses:
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