

No. 829,070.

PATENTED AUG. 21, 1906.

E. E. HANSEN.

HINGE.

APPLICATION FILED JAN. 30, 1906.

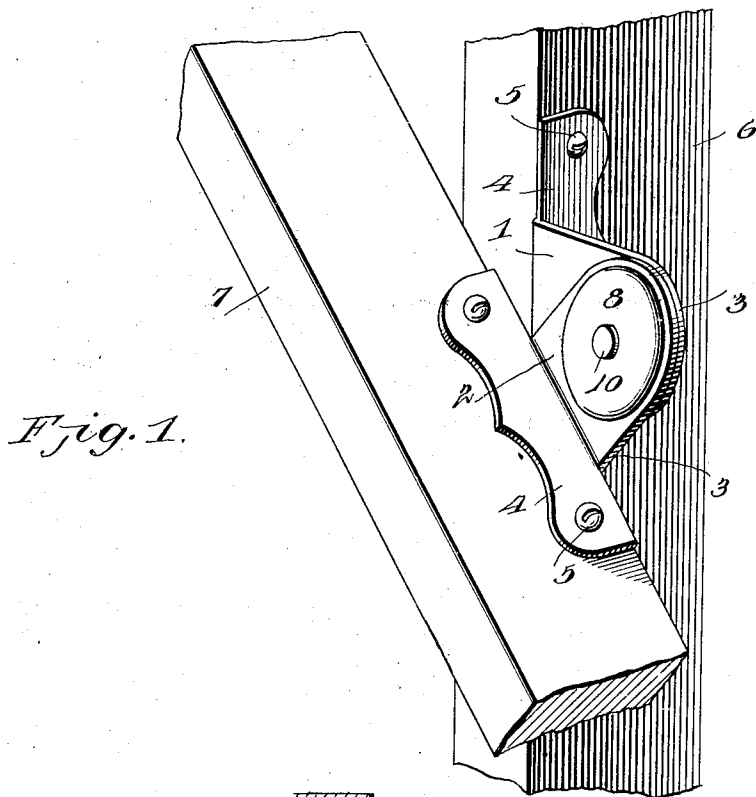


Fig. 1.

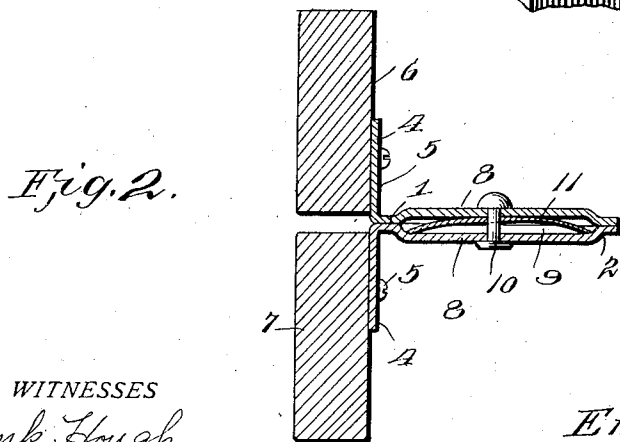


Fig. 2.

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HINGE.

No. 829,070.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EMIL E. HANSEN, a citizen of the United States of America, residing at New Britain, in the county of Hartford and State of Connecticut, have invented new and useful Improvements in Hinges, of which the following is a specification.

This invention relates to hinges for mirrors, transoms, skylights, and the like, which swing outwardly at an angle to their supporting-frames, the object of the invention being to provide a hinge of simple and inexpensive construction provided with means for instituting an effective frictional engagement between the members thereof to hold the mirror or other frame supported thereby firmly and securely at any desired angle.

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

Figure 1 is a perspective view showing the application of the hinge to one of the side pieces of the frame of a mirror, transom, or the like and the cooperating jamb of the supporting-frame. Fig. 2 is a horizontal section through the same with the parts in the position they appear when the mirror is swung to a vertical position or in alinement with the side pieces of its supporting-frame.

The hinge comprises two parts or members 1 and 2, each member consisting of a body portion 3, having a right-angularly-extending attaching-flange 4, said flange being perforated for the passage of screws or analogous fastenings 5 to attach it to the part to which it is to be applied. In the present instance I have shown the member 1 fastened to the jamb or side piece 6 of a supporting-frame, and the member 2 fastened to the side piece 7 of a mirror or transom frame, which is similarly mounted at both sides upon the supporting-frame to swing at an angle thereto.

The body portions 3 of the two hinge members are provided with complementary dished portions 8 and have their meeting faces disposed in contactual relation with the dished portions arranged opposite each other to

form an inclosed space or chamber 9, the two members being hinged or pivotally united by means of a rivet or other suitable pivot connection 10, axially connecting the dished portions, thus permitting the member 2 on the movable part to swing upon the member 1 on the fixed part. A bowed spring 11 is disposed within the chamber 9 and bears centrally upon one of the dished portions and terminally upon the other dished portion and institutes a yielding frictional connection or engagement between the two members of the hinge to normally hold them in fixed relation. It will thus be seen that the spring will be concealed and protected from injury and will permit the mirror or other swinging part to be swung to any desired angle with reference to its supporting-frame and will hold it firmly and securely in the position to which it is adjusted.

The dished portions 8 are, as shown, of less diameter than the length or width of the body portions 3, and consequently such portions 3 are formed all around the dished portions with flat abutting faces 12 lying in contact with each other. By this construction the supporting strain upon the dished portions is greatly diminished over a construction in which the edges of the dished portions are turned inward and have edgewise contact, and the sections of the hinge have a broad bearing contact and mutually brace and reinforce each other. As a result I am enabled to make the hinge of sheet metal in place of the more expensive castings heretofore employed.

Having thus described the invention, what is claimed as new is—

As a new and improved article of manufacture, a hinge comprising two members stamped from sheet metal, each having a body portion and an attaching-flange arranged at right angles to each other, the body portion of each member being dished and provided around the dished portion with a flat marginal bearing-face, the dished portions of the members being arranged to form an intervening chamber and having their

marginal bearing-faces lying flatly in contact with each other, a pivot-pin passing axially through the dished portions, and a bowed spring-strip centrally engaged and
5 held by the pin, the central portion of said strip having its convex face arranged to bear upon the dished portion of one member, and having the free ends or terminals thereof

bearing against the dished portion of the other member. 10

In testimony whereof I affix my signature in presence of two witnesses.

EMIL E. HANSEN.

Witnesses:

JOHN A. NELSON,
JULIUS GRENNEROD.