

No. 608,459.

Patented Aug. 2, 1898.

C. W. JUDSON.

MIRROR HINGE.

(Application filed Nov. 15, 1897.)

(No Model.)

Fig. 1

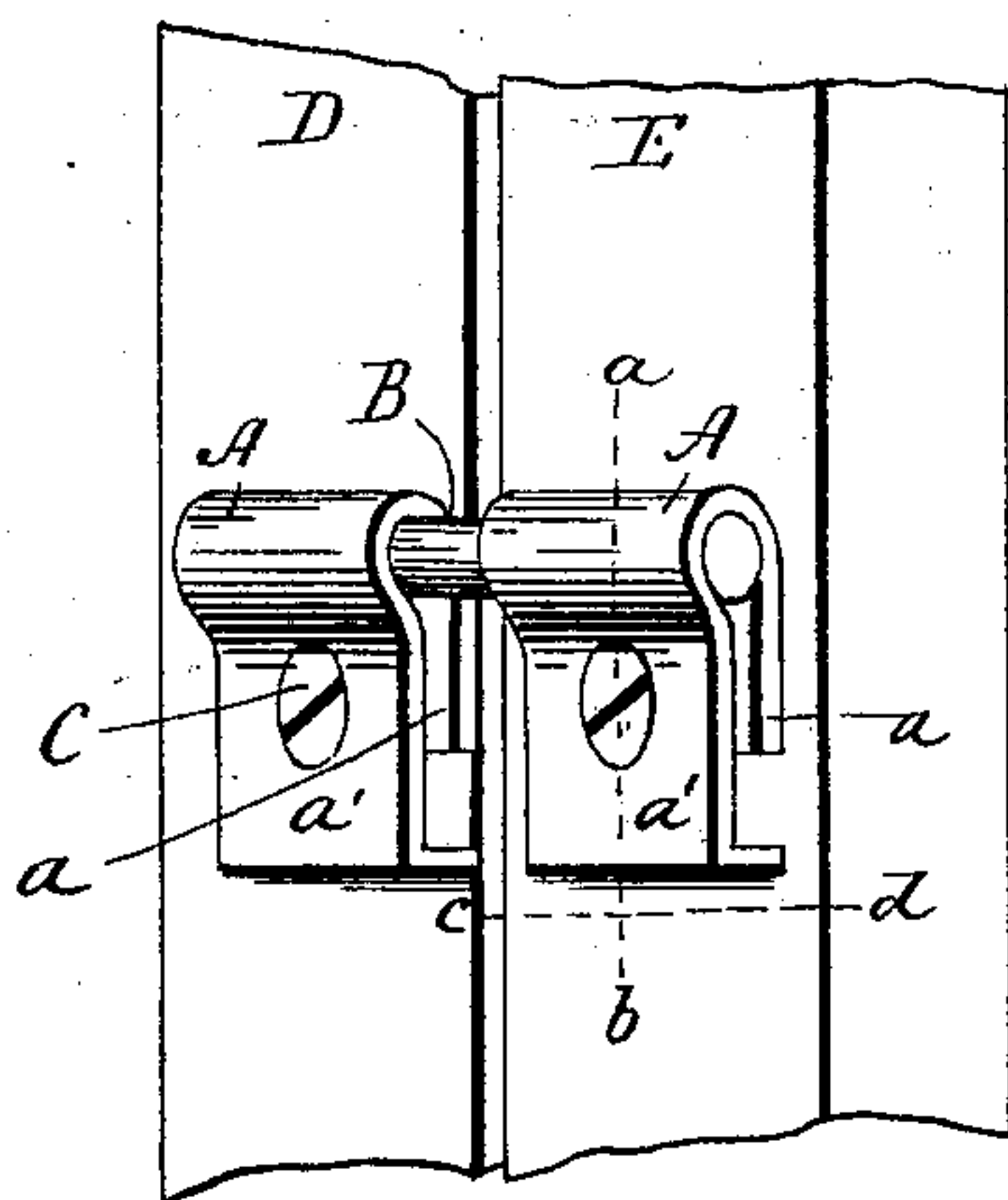


Fig. 2

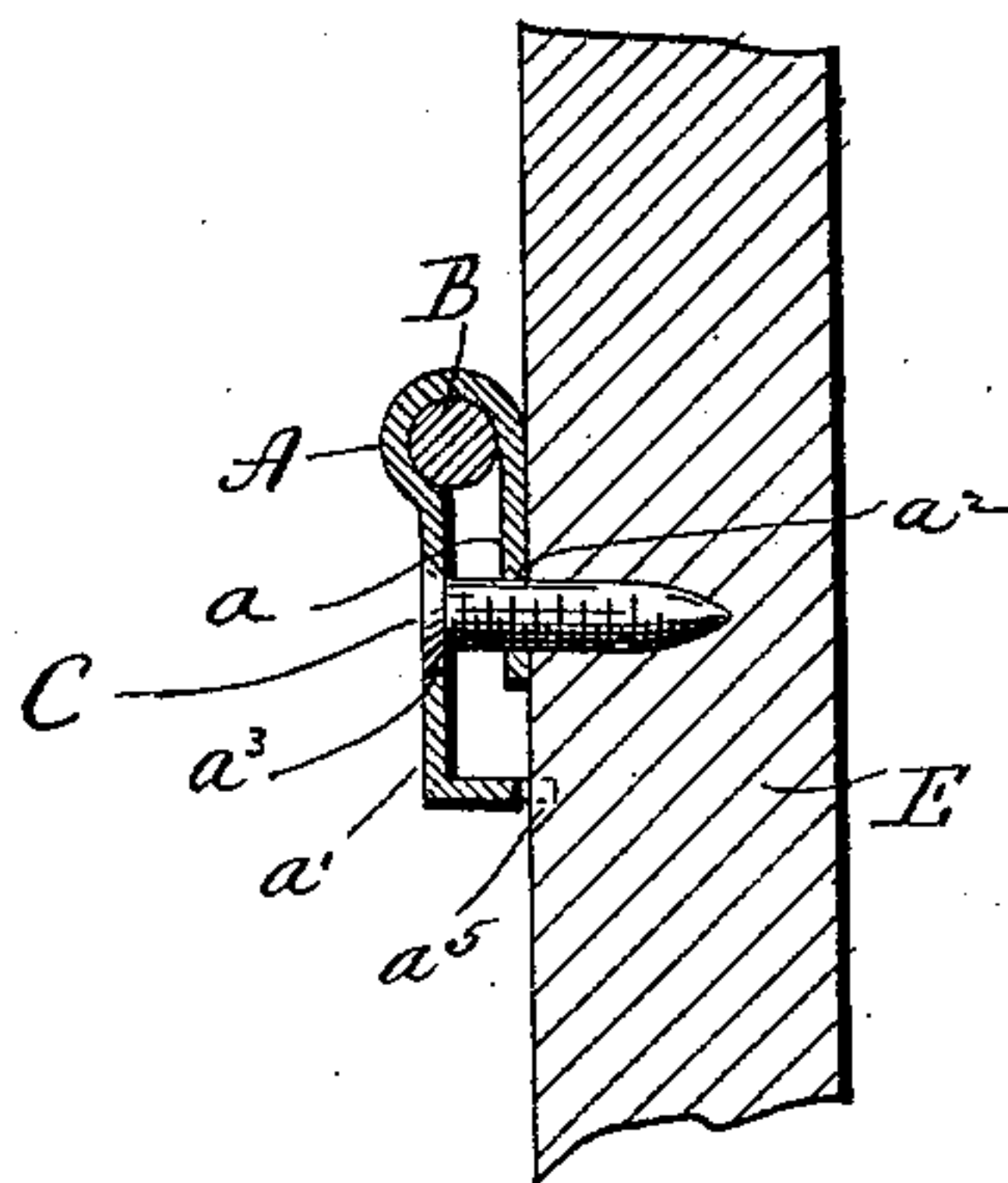


Fig. 3

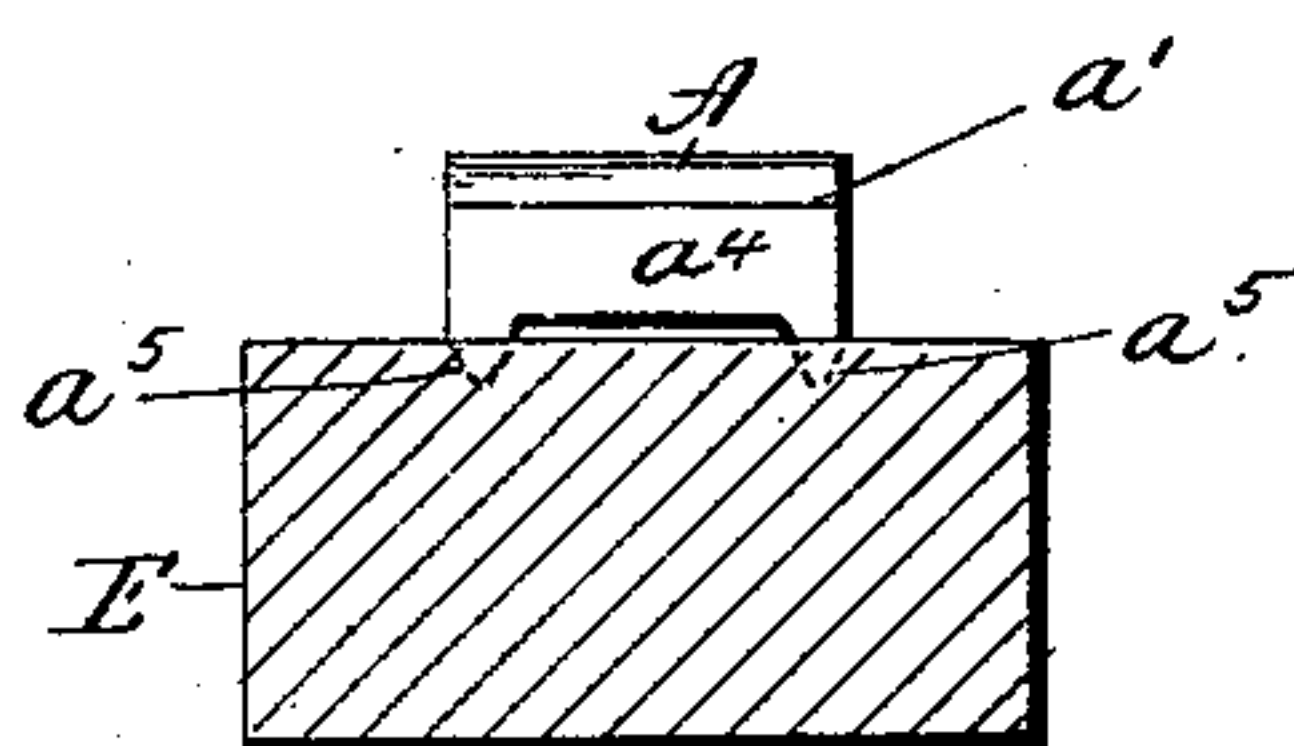


Fig. 4

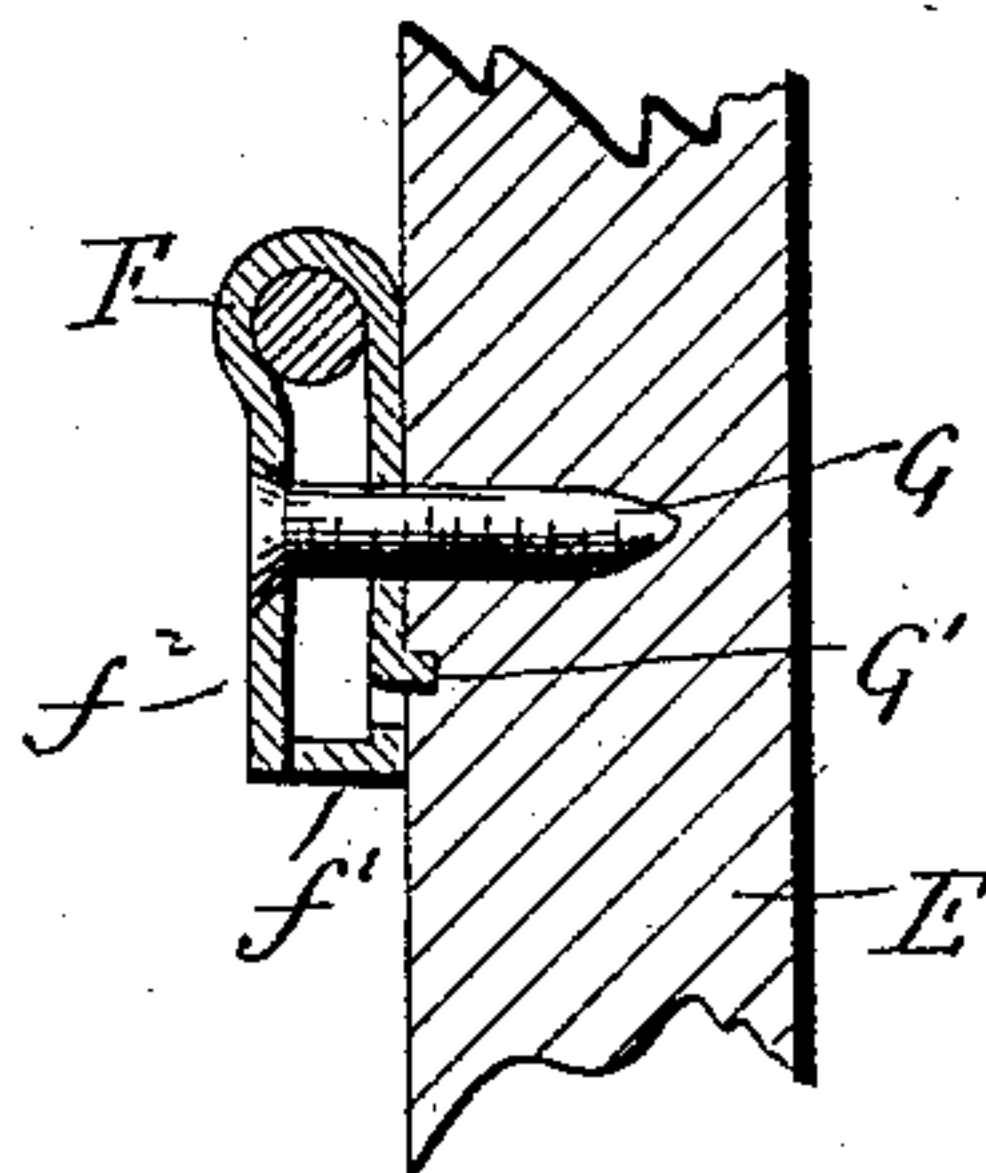
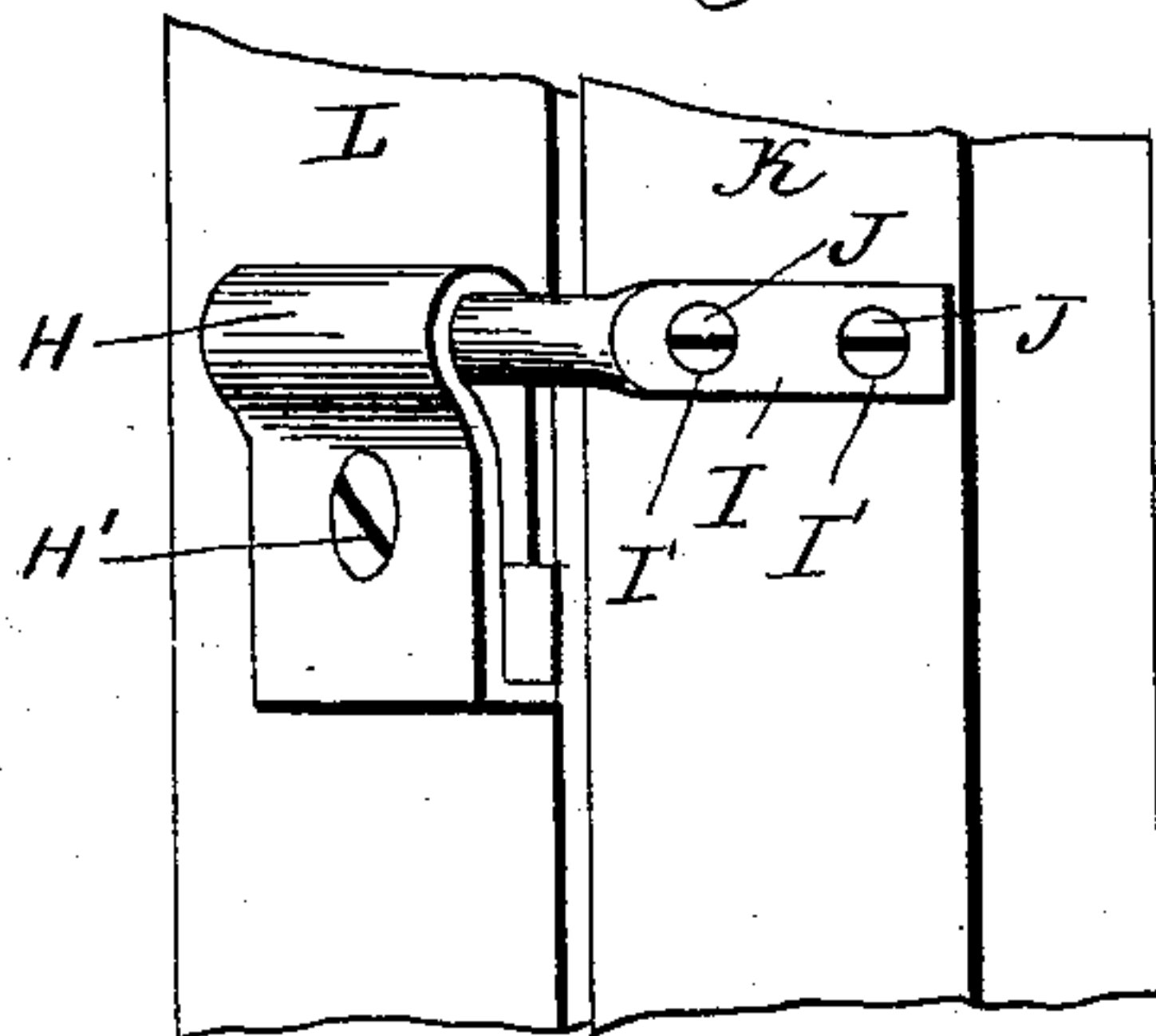


Fig. 5



Witnesses.
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UNITED STATES PATENT OFFICE.

CHARLES W. JUDSON, OF TERRYVILLE, CONNECTICUT, ASSIGNOR TO THE
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MIRROR-HINGE.

SPECIFICATION forming part of Letters Patent No. 608,459, dated August 2, 1898.

Application filed November 15, 1897. Serial No. 658,516. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. JUDSON, of Terryville, in the county of Litchfield and State of Connecticut, have invented a new
5 Improvement in Mirror-Hinges; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the
10 same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view of a hinge constructed in accordance with my invention; Fig. 2, a view in vertical section on the line
15 $a b$ of Fig. 1; Fig. 3, a view in transverse section on the line $c d$ of the same figure; Fig. 4, a view in vertical section of one of the modified forms which my improvement may assume; Fig. 5, a view in perspective of another of the modified forms which my im-
20 provement may assume.

My invention relates to an improvement in that class of friction-hinges designed to be used for the suspension of mirror-frames in
25 the mirror-frame supports of dressing-cases, toilet-bureaus, &c., the object being to produce simple, cheap, and effective hinges adapted to be readily adjusted to take up wear and constructed with particular refer-
30 ence to being held rigidly in place and to the preservation of their adaptation for adjustment.

I may here note that my invention constitutes an improvement upon the friction-hinge
35 forming the subject-matter of Patent No. 303,633, granted August 19, 1884, to William E. Gard.

With these ends in view my invention consists in a friction-hinge having certain details
40 of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In carrying out my invention as shown in Figs. 1 to 3, inclusive, of the drawings the
45 hinge consists of two corresponding straps A A and a pintle B. Each strap is made from a single piece of sheet metal bent upon itself so as to form a short inner leaf a and a long outer leaf a' . The bend or fold of each strap
50 is shaped into partially-tubular form to better adapt the strap to receive and clasp the pin-

tle. The inner leaf a of each strap is formed with a screw-hole a^2 and the outer leaf a' of each strap with an alined screw-hole a^3 , which is counterbored. These screw-holes
55 receive the screws C, by means of which the straps are applied to the mirror-frame D and the mirror-frame supports E, whether the latter form portions of a dressing-case or toilet-bureau. It is to be noticed that but a single
60 screw is employed for securing each strap in place. Therefore to prevent the straps from swinging or swiveling upon their single screws as upon pivots, which would result in the rack-
ing of the mirror between its supports, I turn
65 the free end of the outer leaf of each strap A inward at or by a right angle to form a flange a^4 , which is provided with two retaining-teeth $a^5 a^5$. These teeth enter the mirror-frame and mirror-frame supports and effectually
70 prevent the straps from turning upon their screws as upon pivots, as clearly illustrated in Figs. 2 and 3. The flanges A^4 also per-
form the important function of preventing
75 the leaves of the straps from being unduly drawn together, as they might be in their initial application by a careless workman. If the straps are initially drawn together too
much, the capacity of the hinge for being ad-
80 justed for taking up wear is impaired or destroyed; hence the important function of the flanges a^4 in the respect last mentioned.

In the modified construction shown by Fig. 4 the inner leaf of the strap F is formed with
85 an outwardly-turned flange f' , which supports, as it were, the free end of the outer leaf f^2 of the strap and prevents the two leaves from being unduly drawn together by the screw G. In employing this construction I might strike a tooth or projection G'
90 out of the inner leaf f for preventing the strap from swiveling, or provision for that purpose might be omitted altogether, although I prefer to provide against such tendency.

It is not necessary that my improved hinge
95 should employ two straps, as one will suffice. A hinge containing my invention but employing but one strap is shown in Fig. 5. This hinge consists of a strap H and a pintle I, the said strap being substantially like the straps
100 shown in Figs. 1, 2, 3, or 4, and the pintle I having its outer end flattened and formed

with two screw-holes I' I', receiving screws J J, which enter the mirror-frame support K and secure the pintle directly thereto instead of through the medium of another strap. In 5 this modified construction the strap II is secured by means of a screw II' to the mirror-frame L. The modified hinge thus described is perhaps less elegant than the hinge first described, but it is an effective hinge and 10 contains my invention.

It is obvious from the modification shown and described and of others that might be made that I do not limit myself to the exact construction set forth, but hold myself at 15 liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention. It will be understood, however, that in view of the Gard patent referred to at the outset of this description I do not 20 broadly claim a friction-hinge of the type herein shown and described.

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

25 1. A friction-hinge for mirrors, having a sheet-metal strap, each leaf of which is formed with a single screw-hole and the outer leaf of which is made longer than the inner leaf and

turned inward to form a flange, which prevents the two leaves from being unduly drawn 30 together by the screw passing through the single screw-holes of the respective leaves, and the said flange being also formed with teeth which enter the wood and hold the strap against swiveling upon the screw which passes 35 through said screw-holes.

2. A friction-hinge for mirrors, having a sheet-metal strap of which one leaf is longer than the other, each leaf being formed with a 40 single screw-hole and the longer leaf being bent at or substantially at a right angle to form a flange which prevents the two leaves from being unduly drawn together by the screw passing through the single screw-holes 45 of the respective leaves, and one leaf of the said strap being also adapted to enter the wood and hold the strap against swiveling upon the single screw which passes through the said screw-holes.

In testimony whereof I have signed this 50 specification in the presence of two subscribing witnesses.

CHARLES W. JUDSON.

Witnesses:

R. J. KIMBLE,
OTIS B. HOUGH.