

(No Model.)

J. F. BUZZELL.

FRICTION HINGE FOR MIRRORS.

No. 359,555.

Patented Mar. 15, 1887.

Fig. 1.

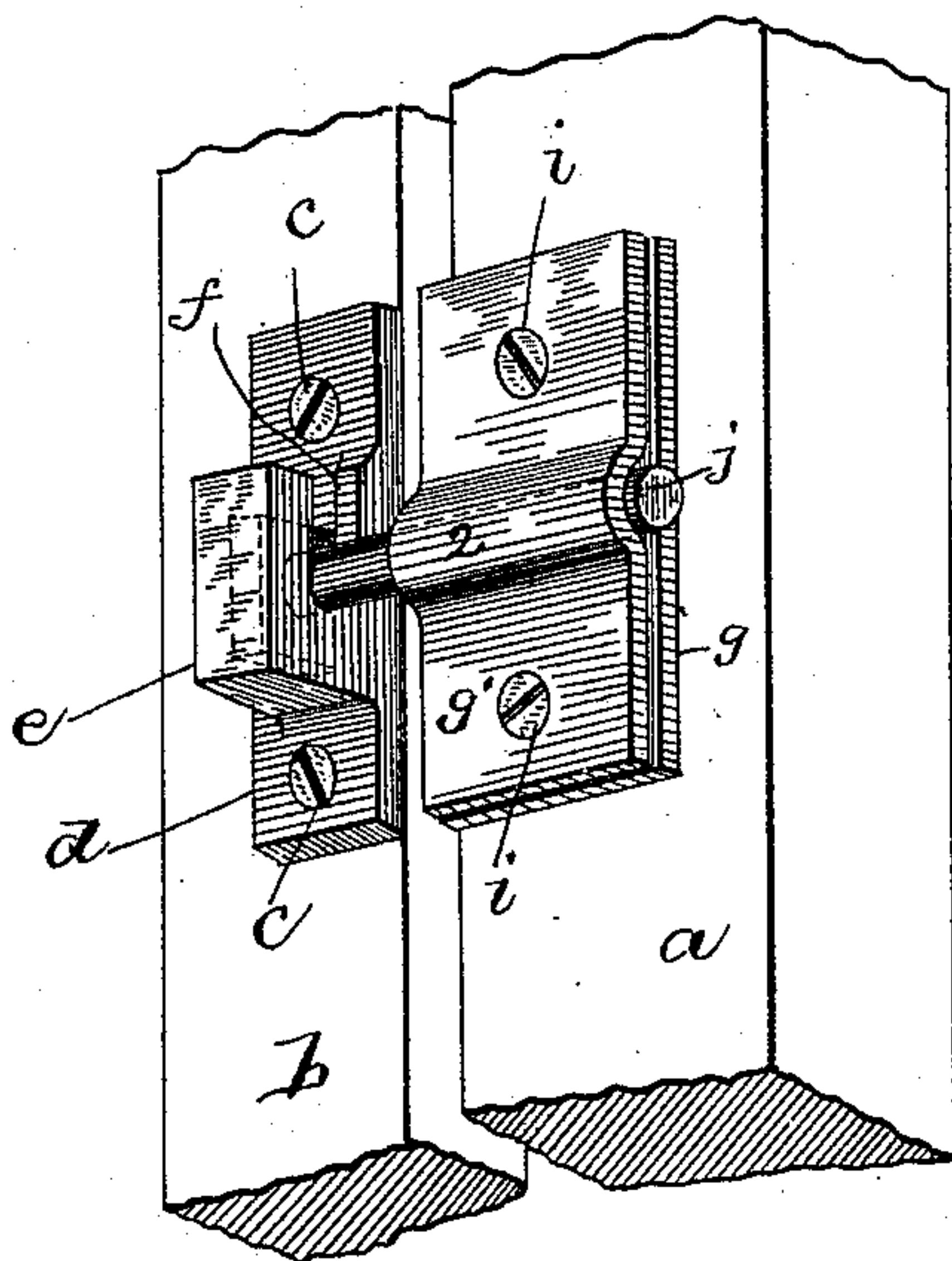


Fig. 2.

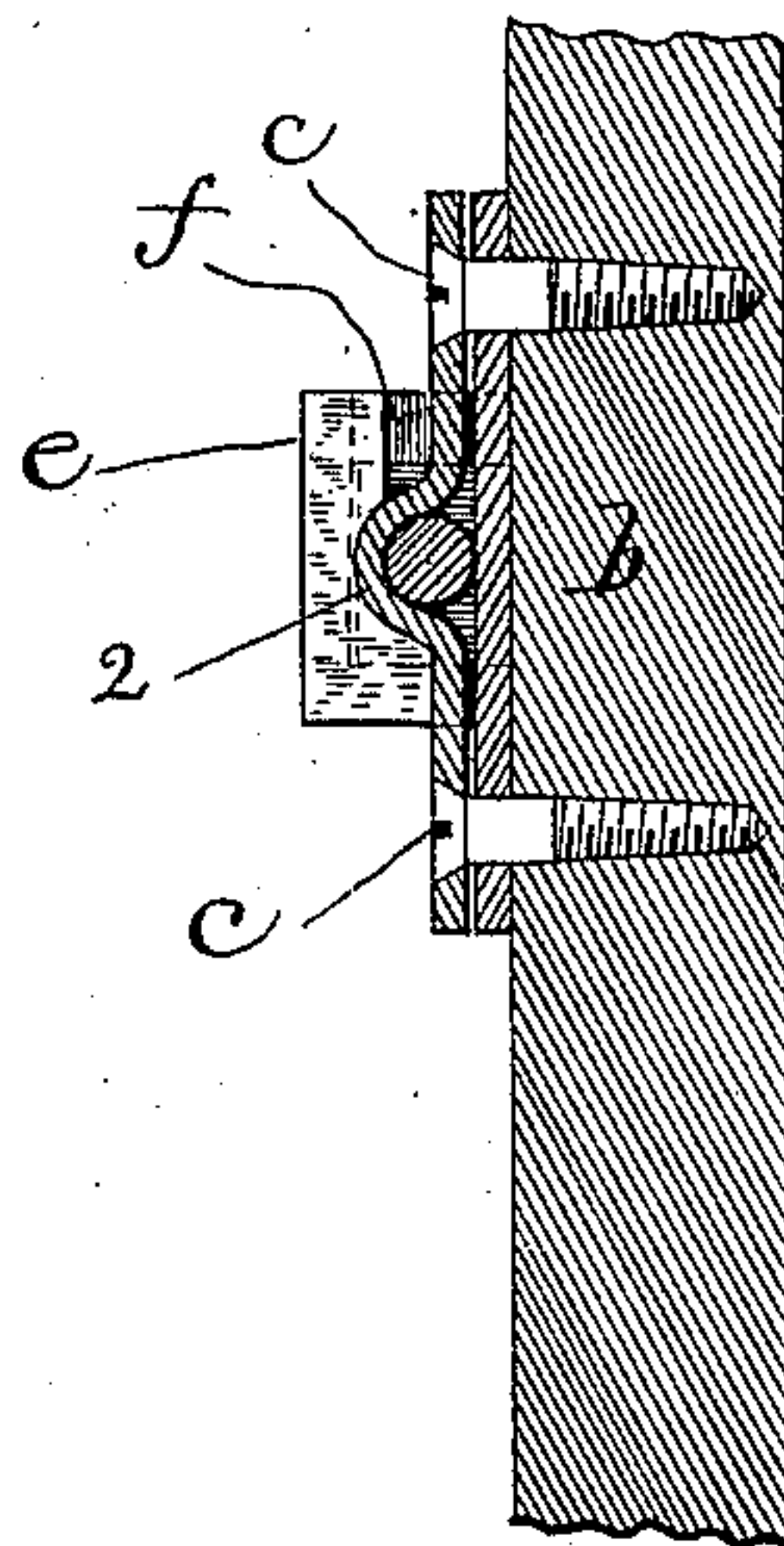


Fig. 3.

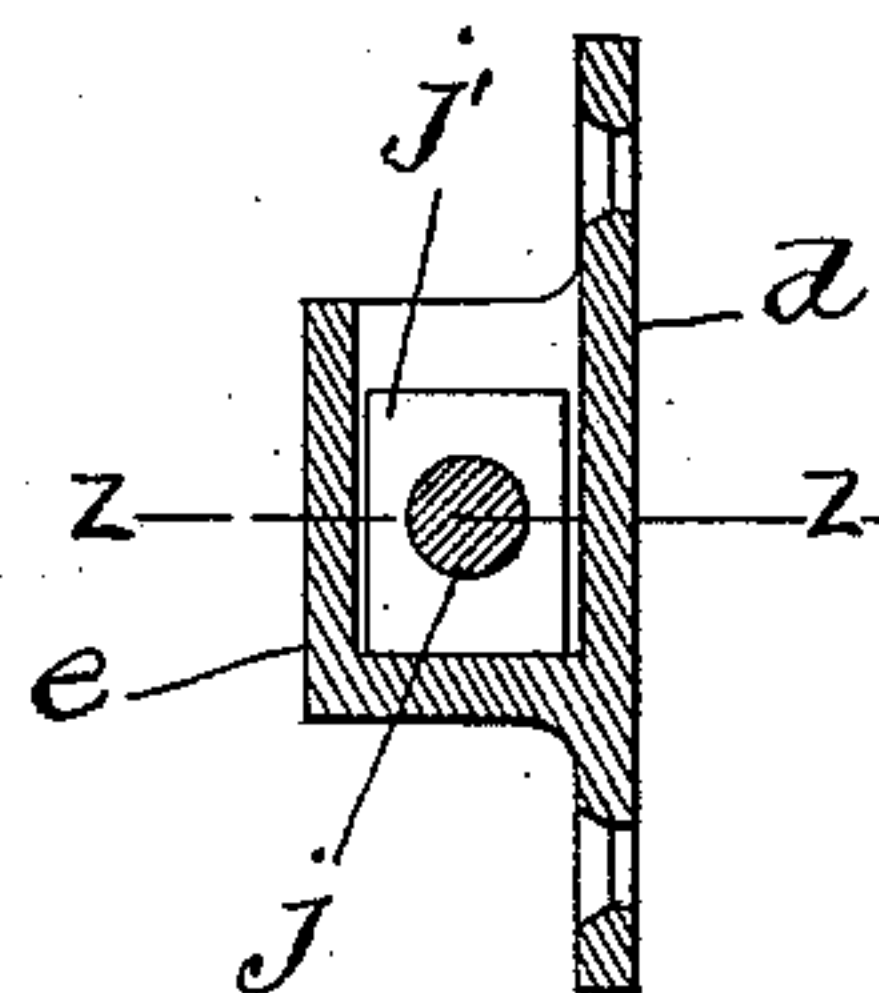


Fig. 4.

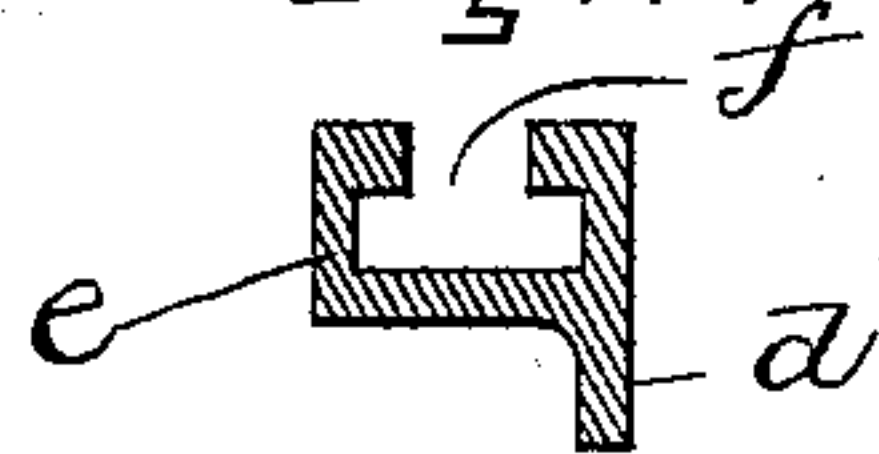
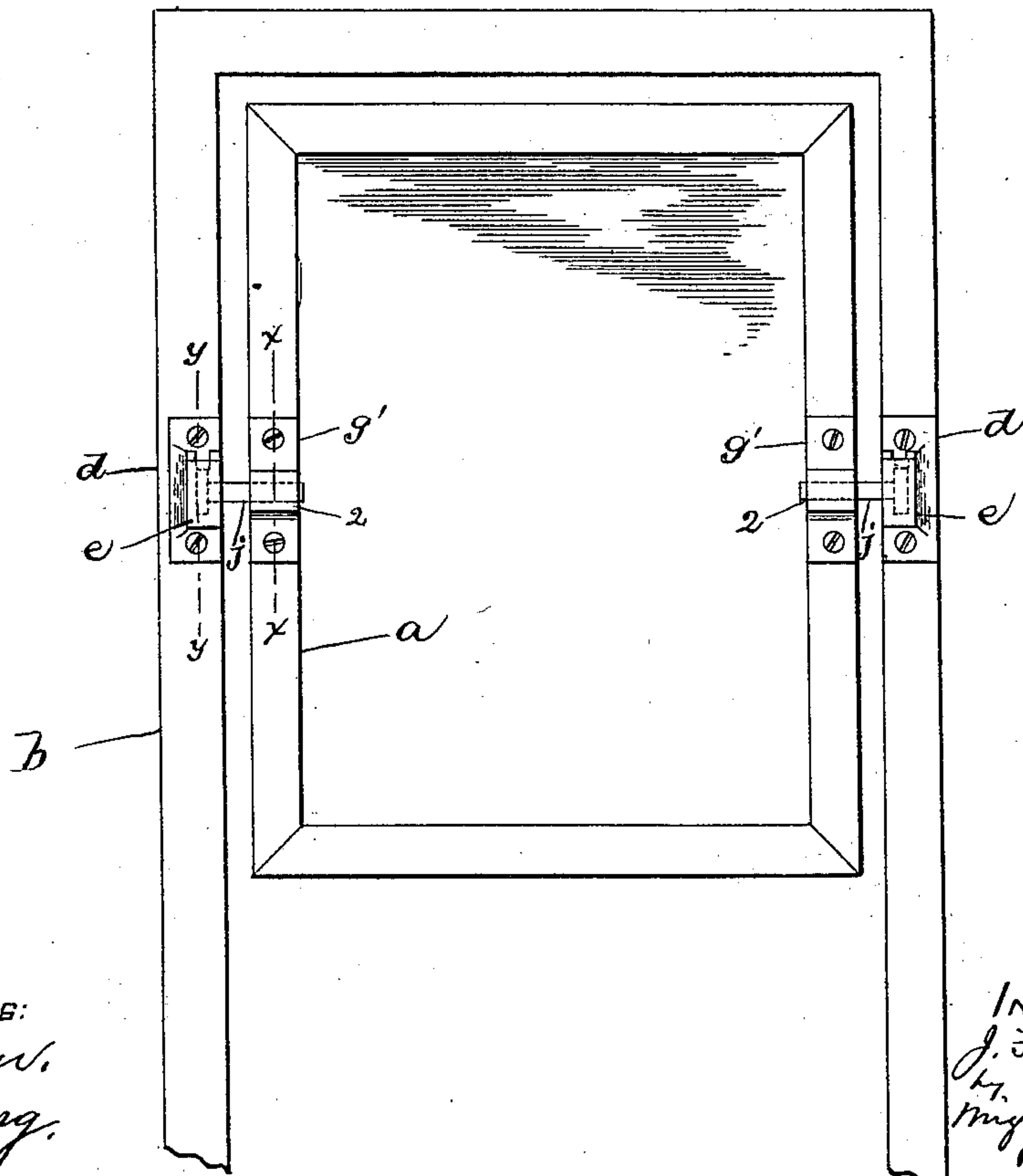


Fig. 5.



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# UNITED STATES PATENT OFFICE.

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## FRICITION-HINGE FOR MIRRORS.

SPECIFICATION forming part of Letters Patent No. 359,555, dated March 15, 1887.

Application filed August 18, 1886. Serial No. 211,183. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN F. BUZZELL, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and  
5 useful Improvements in Friction-Hinges, of which the following is a specification.

This invention has for its object to provide a friction-hinge adapted to pivotally connect  
10 a mirror or other frame or like object to a supporting-frame, and hold the mirror at any desired angle or inclination, and also permit the ready removal of the mirror from the fixed supporting-frame, the invention having special  
15 reference to toilet-mirrors which are pivoted within inclosing-frames, so as to be capable of swinging and assuming such angles as may suit the user's convenience.

The invention consists in the improved device which I will now proceed to describe and  
20 claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a perspective view of my improved hinge. Fig. 2 represents a section on line *x x*, Fig. 5. Fig. 3 represents a section on line *y y*, Fig. 5.  
25 Fig. 4 represents a section on line *z z*, Fig. 3. Fig. 5 represents a rear elevation of a mirror and its inclosing-frame.

The same letters of reference indicate the  
30 same parts in all the figures.

In the drawings, *a* represents a mirror-frame, and *b* represents the inclosing-frame to which the mirror-frame is pivoted. To the back of the inclosing-frame are attached by screws *c c*  
35 two plates, *d d*, on which are formed sockets *e e*, each open at one end, closed at its other end, and provided with a slot, *f*, in its outer side, extending from its open end nearly to its closed end.

To the mirror-frame *a*, I attach metal plates  
40 *g g'*, the former being flat, and the latter having a loop or socket. Said plates are attached to the frame *a* by screws *i i*, and have no connection with each other, excepting that  
45 which is afforded by said screws, the plates being separable from each other when the screws are loosened.

*j j* represent pivot bolts or rods, which are interposed between the plates *g g'*, and are con-  
50 tained in the loops 2 2 of the plates *g'*. Said

bolts are provided with rectangular heads *j'*, which are formed to enter and fit in the sockets *e e*, the bolts being of such size that they can enter the slots *f* in said sockets.

It will be seen that when the heads of the  
55 bolts *j j* are in the sockets *e e* the bolts and the mirror are supported by the inclosing-frame, and it will also be seen that the mirror may be removed by lifting the rods *j j* from the open ends of the sockets *e e*.  
60

The plates *g g'* may be caused by the screws  
65 *i i* to grasp the rods *j j* with any desired degree of pressure, and thus exert sufficient friction on the rods to hold the mirror at any desired inclination.

It will be seen that this device is simple and cheap in construction and provides a conven-  
70 ient separable friction-hinge, whereby a mirror or other like object may be quickly applied to and removed from its support.

If desired, the plates *g g'* may be applied to the inclosing-frame, and the sockets *e e* to the mirror-frame, in which case the sockets should be inverted from the position shown, their open ends being at the bottom, so that  
75 the mirror would be removed by lifting it with the sockets thereto attached from the bolt-heads.

I claim—

1. The improved separable friction-hinge, 80 composed of a headed rod, adjustable clamping or friction plates, between which said rod is clamped, and a socket formed to receive and fit the head of the rod, as set forth.

2. The combination of a mirror or other like  
85 object having separable friction-plates attached thereto, of headed rods clamped between said plates, a fixed frame inclosing the mirror, and having open-ended sockets attached to it, said socket being formed to re-  
90 ceive the heads of said bolts, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 10th day of August, 1886.

JOHN F. BUZZELL.

Witnesses:

C. F. BROWN,

A. D. HARRISON.