

G. F. Outten,

Hinge.

No. 101,908.

Patented Apr. 12, 1870.

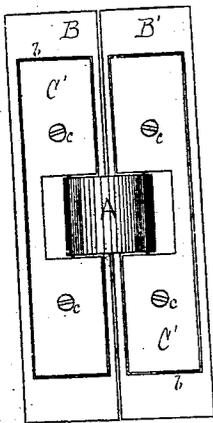


FIG: 1.

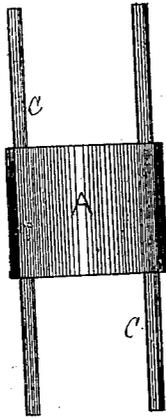


FIG: 2.

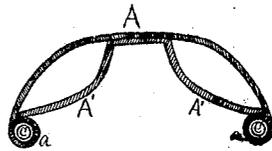


FIG: 3.

WITNESSES.

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GEORGE FRANKLIN OUTTEN, OF NORFOLK, VIRGINIA.

Letters Patent No. 101,908, dated April 12, 1870.

IMPROVEMENT IN HINGES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE FRANKLIN OUTTEN, of Norfolk, in the county of Norfolk and State of Virginia, have invented certain new and useful Improvements in Hinges; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon making part of this specification, in which—

Figure 1 is a front view of the hinge attached when the door or leaf is open.

Figure 2 is a front view of the hinge and its bearing-rod, the device being detached.

Figure 3 is a vertical sectional view through the center of the hinge.

The object of my present invention is to furnish a hinge that is so constructed and that can be attached in such manner to an ordinary door, table-leaf, or piano-top, that when the same is closed the hinge shall be entirely invisible from either side.

The nature of my invention consists in securing circular brace-plates on the inner surface of the curved plate which furnishes the face or base of the spring, which not only prevent the main plate from springing, thus causing it to preserve its original contour under all circumstances, but at the same time these plates act as guide-bearings, causing the hinge readily to accommodate itself to the circular sweep made by the door or leaf as they move on being opened or closed. On the outer edges of the main or face-plate, and at its point of union with the brace-plates, are small tubes, which are intended to receive the bearing-rods, and by means of which the door, leaf, or piano-top is attached. These rods, as well as the ends of the spring, are to be inserted in mortises cut in the edge of the leaf or door, and also in the table or jamb, and are retained by blocks suitably secured. When two or more springs are used, these blocks can be so tightened that while they will allow of the free movement of the door or leaf, still they will retain the same at any desired point.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

A is the main or face-plate of the hinge. This plate is of metal, and is to be curved in the form shown in fig. 3.

A' A' are brace-plates, and are also curved in the form shown. These plates are to be secured on the inner surface of the plate A.

a a are two tubes, which are secured on the opposite sides of the hinge, and at the point at which the plates A A' meet.

B B represent the table and leaf, or piano and top, &c., edge views of the same being given, and are mortised as seen at b b. In these mortises are inserted the ends of the hinge, and also the bearing-rods C C.

These rods C C are of the form shown, and are inserted in the tubes a a. They are retained in the mortises by means of blocks C' C', which are slotted at their centers to allow of the free movement of the hinge and the door or leaf.

The blocks C' C' are held in position by means of screws c c. By tightening these screws c c, when two or more hinges are used, not only the joint can be closed, but the door or leaf can be retained at any desired point.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent of the United States, is—

The combination of the plate A and brace-plates A', tubes a a, rods C C, and blocks C' C', substantially as described, as and for the purpose specified.

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

GEORGE FRANKLIN OUTTEN.

Witnesses:

J. S. AMES,
JAS. H. PEARCE.