

C. Gaylord,

Hinge.

No. 106,351.

Patented Aug. 16. 1870.

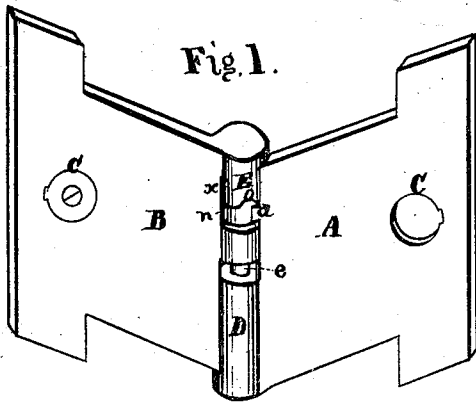


Fig. 3.

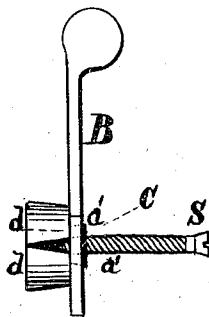
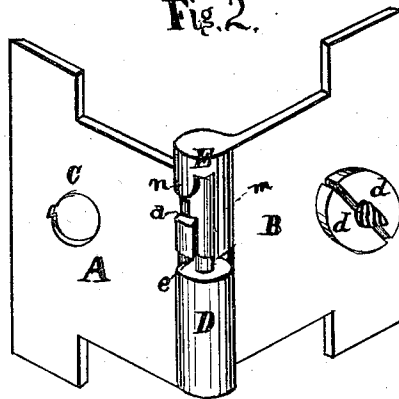


Fig. 2.



Inventor

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Witnesses

A. Davis
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United States Patent Office.

CHARLES GAYLORD, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 106,351, dated August 16, 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, CHARLES GAYLORD, of Washington city, in the county of Washington and District of Columbia, have invented certain new and useful Improvements in Hinges, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing and letters of reference marked thereon, in which—

Figure 1 is a perspective front view of my improved hinge, partially opened;

Figure 2 is a perspective rear view of the same; and

Figure 3 is a sectional view, showing my improved method of fastening the hinge to a blind or casing.

Similar letters indicate like parts in all the figures.

My invention is particularly applicable to hinges employed on window-blinds, though it may be used elsewhere; and

It consists in the employment of a projection or lug on that leaf of the hinge attached to the casing, which lug moves in a recess or groove of peculiar formation in the opposite leaf of the hinge, by means of which, when the blind is entirely or partially opened or closed, it will be securely fastened in position, thus obviating the employment of the ordinary window-fastenings.

My invention further consists in the employment, in lieu of screw fastenings as ordinarily used, of two pieces or semi-disks, having flaring sides and openings in their centers, which are let into countersunk holes or openings in the hinge, and also into the casing or wood-work to which they are applied, in conjunction with a screw or wedge which passes through the opening at the centers of the semi-disks, forcing them apart, and thus securely attaching the hinge.

In the accompanying drawing—

A represents that leaf of the hinge which is attached to the casing, in the manner hereinafter fully set forth.

This leaf is provided with a projection, D, on the upper end of which is a short pintle, e, which works in the socket or eye E, attached to the leaf B.

a is a lug or projection on the leaf A, which works, as the blind is opened or closed, in a peculiarly-formed recess or groove formed on the surface of the socket or eye E, which groove is constructed as follows:

The part m of the groove or recess, (see fig. 2,) is made vertical, and extends to the lower extremity of the socket or eye E, to allow the free passage of the lug a, when the blind is opened and it is designed to raise it, for removal or unlocking the fastening. At the upper extremity of that portion of the groove lettered n, (see fig. 2,) there is a recess formed between

the projecting portion n and the outer line of that portion of the groove lettered m, into which the projection or lug a is forced by the weight of the blind, when the latter is entirely opened, whereby it is securely locked when in that position.

o, fig. 1, is a recess in the projecting part n, which in a similar manner locks the blind when partially opened, and a recess, x, (see fig. 1,) is formed in the opposite side of the groove, into which the lug enters, by reason of the weight of the blind, when the latter is closed, thus securely locking it when in that position.

To unlock the blind when in any of the above-described positions, it is only necessary to raise it slightly, before turning it, to disengage the lug a.

O O are countersunk openings in the leaves A B, and d d are two pieces or semi-disks, made flaring on their exterior surfaces, or, when placed together, forming the frustum of a cone. An opening is made in the wood corresponding with the form of the two semi-disks when placed together.

Projecting pieces a' a', of less diameter than the semi-disks, are formed on their upper ends, and are made to enter, and are attached to, the countersunk openings O O in the hinge.

The parts d d being inserted into corresponding holes or openings made in the casing or wood, and the pieces a' a' being inserted into the openings O O, a screw, S, or wedge, is inserted in the opening at the center of the semi-disks, and, being forced therein, spreads apart the semi-disks, and forms a secure fastening.

This method of fastening is much more secure than the ordinary screw-fastening, and it may, obviously, be used elsewhere than in hinges in attaching parts together; and I do not, therefore, mean to confine this feature of my invention to the employment of said fastening only on hinges.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The leaf A, provided with the projection a on said leaf, in combination with the leaf B, having a horizontal groove, with perpendicular notches, on the exterior surface of its socket E, substantially as set forth.

2. The fastening, consisting of the plate B, in combination with the flaring pieces or semi-disks d d and screw or wedge, substantially as described.

CHARLES GAYLORD.

Witnesses:

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