

S. T. DAVIS.
Hinge.

No. 164,365.

Patented June 15, 1875.

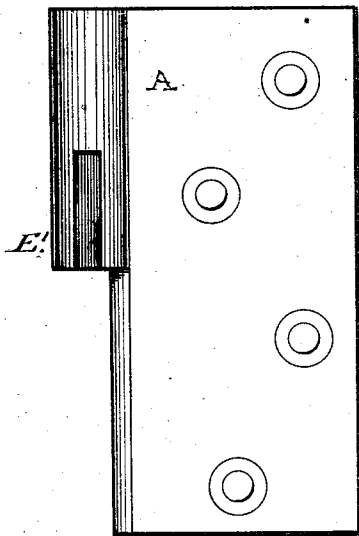


Fig. 2.

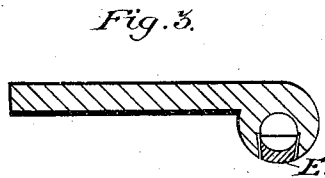


Fig. 3.

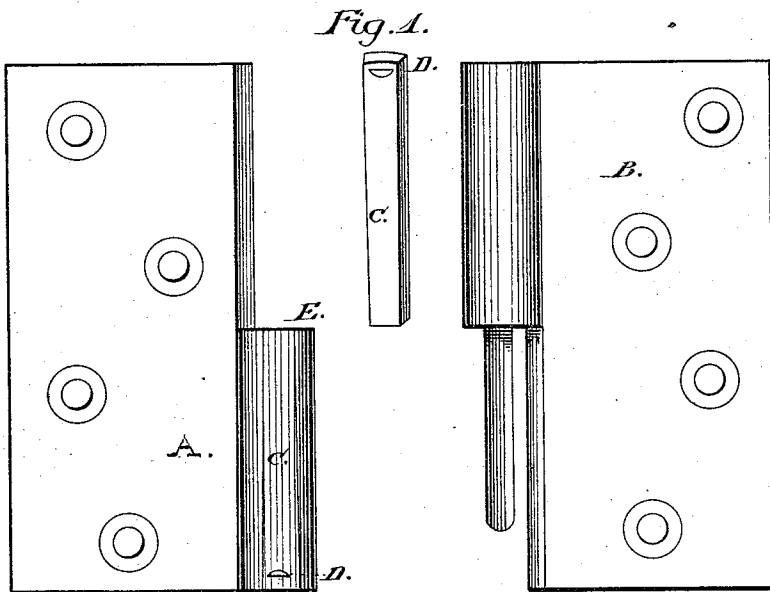


Fig. 4.

Witnesses:
Edw. W. Dunn
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UNITED STATES PATENT OFFICE.

SAMUEL T. DAVIS, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. **161,365**, dated June 15, 1875; application filed March 13, 1875.

To all whom it may concern:

Be it known that I, SAMUEL T. DAVIS, of Washington, District of Columbia, have invented certain Improvements in Hinges, of which the following is a specification:

My invention is fully described in the annexed specification, taken in connection with the drawings, forming a part of the same.

The object of my invention is to economize labor and time, and to facilitate the hanging of doors and shutters or other objects where this hinge can be used; and my invention consists in making a slot in the eye-piece or knuckle of the hinge, thus enabling the hinge, when attached to a door or shutter, simply to be placed on the pintle or pivot of the lower part of the hinge, and then closing the slot by a sliding key, which may have a spring or catch on its inner surface, if desired. It also consists in providing the eye-piece or pintle with a slot somewhat shorter than the pintle, so that when placed over the pintle and the hinge raised the door or shutter to which it is attached will drop into place itself, and be held firmly and securely.

In the annexed drawings, Figure I is a perspective view of the parts of my improved hinge. A is the slotted part, with the sliding key C in place. E is the slot, and D a recess in the key C, to facilitate its removal. B is the remaining half of the hinge, which is constructed in the ordinary manner. Fig. II represents the slot E', cut somewhat shorter, so that, in most instances, by this construction, the key may be dispensed with. Fig. III is a cross-section near the bottom of the recess.

The mode of constructing my improved hinge is as follows: In the rear or at either side of the eye-piece or knuckle, I form the slot, which may be straight with dovetailed sides, or wedge-shaped, as preferred. In this slot, the pivot or pintle of the hinge is received, and a sliding key or wedge is then inserted. This key is provided with a slot or catch to facilitate its removal.

The slot may be slightly shorter than the depth of the recess, as at E', and if cut at either side, the use of the key, as in the dove-

tailed slot, may be dispensed with, although it is more secure with it.

The hinges can be made of any size desired, and of any material commonly used for the purpose.

In hanging heavy doors, especially where two and sometimes three men are required, one man can do the work, and in considerably shorter time.

The advantages of this invention will be especially perceived where the necessity for three hinges is required.

In hanging the doors, an ordinary loose-joint hinge is suggested for the top, though not necessarily, and the lower one (or two) of those with the slot and key.

The door should be hung on the upper hinge, and with the greatest ease can be adjusted on the others, and the key pushed into its place.

Another very great advantage is in hanging outside shutters where a loose-joint hinge is used, which may be done on the same principle as described above for the door—that is to say, an ordinary loose-joint hinge at the top and the slotted hinge at the bottom.

It will readily be perceived with what ease and convenience, and how quickly, the shutter may be secured, and how especially advantageous my invention will prove where three hinges are required on outside shutters.

I claim as my invention—

1. A loose-joint hinge in which the eye piece or knuckle A is provided with a slot, E', starting from the bearing-seat for the pintle-piece, and continued a suitable distance, in order that the pintle of the lower hinge may be inserted and drop into place after the upper hinge is partially hung, all substantially as and for the purpose set forth.

2. A loose-joint hinge in which the eye-piece or knuckle A is formed with a slot, E, which is closed by a sliding key, C, substantially as and for the purpose specified.

SAMUEL T. DAVIS.

Witnesses:

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