No. 713,338. Patented Nov. 11, 1902.

H. A. PAQUETTE.

HINGE.

(Application filed Aug. 28, 1902.

(No Model.)

Fig. 1.

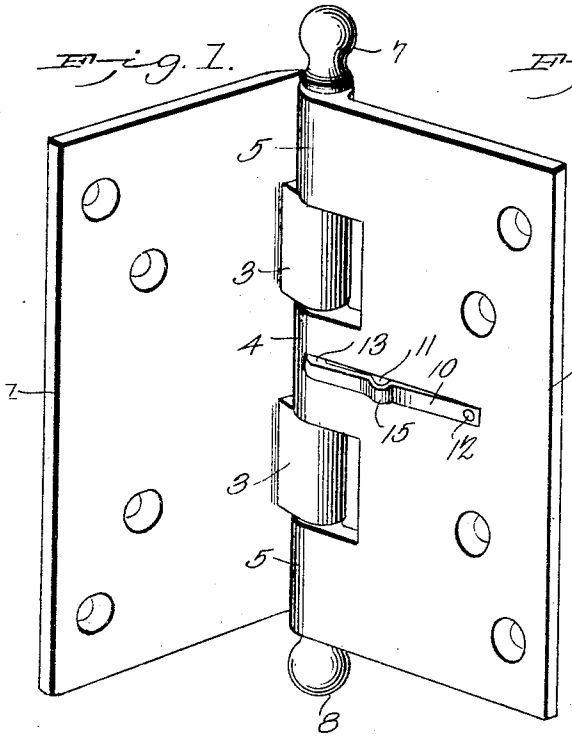


Fig. 5.

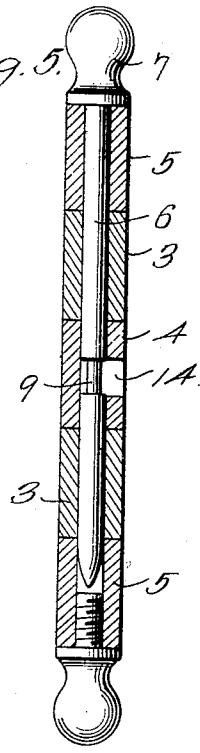


Fig. 2.

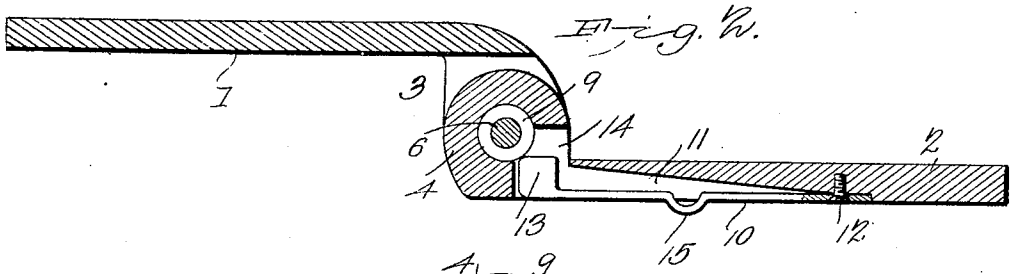
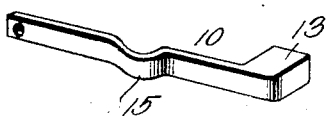


Fig. 4.



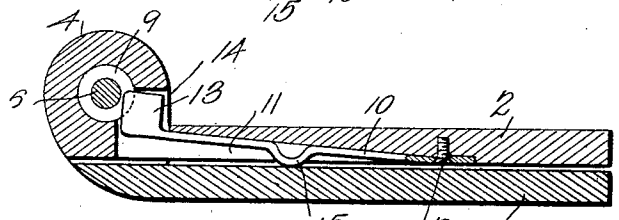


Fig. 3.

Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HERMAN A. PAQUETTE, OF BLACKSTONE, VIRGINIA, ASSIGNOR TO NAPOLEON PAQUETTE, OF BLACKSTONE, VIRGINIA.

HINGE.

SPECIFICATION forming part of Letters Patent No. 713,338, dated November 11, 1902.

Application filed August 28, 1902. Serial No. 121,371. (No model.)

To all whom it may concern:

Be it known that I, HERMAN A. PAQUETTE, a citizen of the United States, residing at Blackstone, in the county of Nottoway and State of Virginia, have invented a new and useful Hinge, of which the following is a specification.

The invention relates to improvements in hinges.

The object of the present invention is to improve the construction of hinges and to provide a simple and comparatively inexpensive one of great strength and durability designed, primarily, for use on doors and capable when the door is closed of effectually locking the pintle in the eyes of the leaves and of effectually preventing the removal of the same while the leaves are in such position.

A further object of the invention is to provide a locking device adapted to be readily applied to a hinge and capable of automatically engaging the pintle thereof when the leaves are closed and adapted also, should the pintle be imperfectly arranged in the eyes, to yield and prevent breakage should the leaves be closed under such conditions.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of the hinge constructed in accordance with this invention and shown open. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a similar view illustrating the arrangement of the catch when the leaves are closed. Fig. 4 is a detail view of the catch. Fig. 5 is a vertical sectional view of the hinge.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 and 2 designate leaves of a hinge designed for use on doors and provided with the usual countersunk perforations for the reception of screws or other suitable fastening devices for securing the leaves to the door and to the door jamb or frame. The leaf 1 is provided with eyes 3, which are arranged between eyes 4 and 5 of the leaf 2 and which are connected with the same by the removable pintle 6. The pintle 6 is provided at its upper end with a suitable ornamental head 7, and the lower eye 5 of the leaf 2 receives a plug 8 of the ordinary construction.

The eyes are laterally offset from the plane of the leaves to afford greater access to the pintle, and the latter is provided between its ends with an annular recess 9, arranged at the center of the central eye 4 when the pintle is in position and adapted to be engaged by a resilient catch 10. The resilient catch 10, which is arranged in a transverse recess 11 of the front or exposed face of the leaf 2, is secured at its end 12 by a screw or other suitable fastening device to the said leaf 2, and its other end 13 is provided with an engaging head arranged in a slot 14 of the eye 4 and adapted to be projected into the bore or opening of the said eye 4 when the leaves 1 and 2 are closed and abut. The annular groove of the pintle registers with the slot 14 of the leaf 2 when the said pintle is in position, and the catch is provided between its ends with an approximately U-shaped or V-shaped bend 15, projecting outward beyond the face of the leaf 2 and adapted to engage the face of the leaf 1 when the hinge is closed, whereby the engaging end or head 13 of the catch will be pressed into the groove of the pintle to lock the latter in the eyes of the hinge and to prevent the said pintle from being removed while the door is closed. The projecting portion of the catch is resilient and is adapted to be compressed and forced into the recess of the leaf 2 without breaking the catch should the hinge be closed when the pintle is improperly placed in the eyes with its annular groove out of register with the slot 14 of the leaf 2. This will prevent the parts from being broken under such conditions. As soon as the leaf 1 by the opening of the hinge is carried out of contact with the spring-catch the latter will automatically disengage itself from the pintle, which may be readily removed and replaced when the hinge is open.

It will be seen that the hinge is exceedingly simple and inexpensive in construction, that it possesses great strength and durability, and that while it securely locks the pintle in the eyes when it is closed it affords ready access to the pintle when it is open. It will

also be clear that the locking device is so arranged that it will not be broken or otherwise injured should the hinge be closed while the pintle is improperly placed in the eyes with the annular groove out of register with the slot of the central eye.

What I claim is—

1. In a device of the class described, the combination with a hinge, of a movable catch mounted on one of the leaves of the hinge and so constructed and arranged as to be engaged by the other leaf when the hinge is being closed, whereby it is moved into engagement with the pintle of the hinge to lock the latter in place, substantially as described.

2. In a device of the class described, the combination with a hinge, of a resilient catch mounted on one of the leaves of the hinge and adapted to be engaged by the other leaf when the hinge is being closed, whereby it is carried into engagement with the pintle, substantially as described.

3. In a device of the class described, the combination of a hinge provided with a pintle having a groove, said hinge being also provided in one of its leaves with a recess communicating with the adjacent eye, and a resilient catch mounted in the recess and projecting beyond the leaf having the said recess and constructed to be engaged by the other leaf when the hinge is being closed, whereby it is forced into the groove of the pintle, substantially as described.

4. In a device of the class described, the combination of a hinge provided with a pintle having a groove, said hinge being also provided in one of its leaves with a recess communicating with the interior of the adjacent eye, and a resilient catch mounted in the recess and arranged to extend into the said eye to engage the groove of the pintle, said catch being also provided with an outwardly-extending bend arranged to be engaged by the other leaf of the hinge and adapted to be compressed without injury should the hinge be closed while the groove of the pintle is out of register with the said recess, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HERMAN A. PAQUETTE.

Witnesses:
W. J. DILLON,
J. H. JOCHUM, Jr.