

May 12, 1925.

1,537,562

R. STOCK

HINGE

Filed Sept. 24, 1919

Fig. 1.

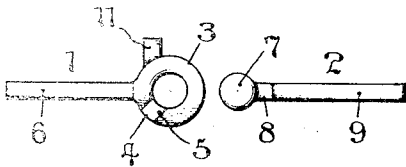


Fig. 3.

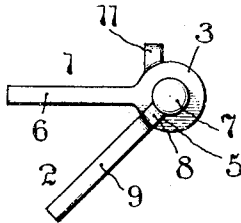


Fig. 5.

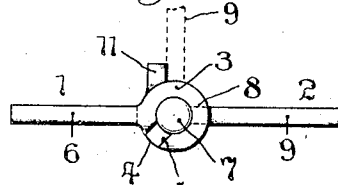


Fig. 2.

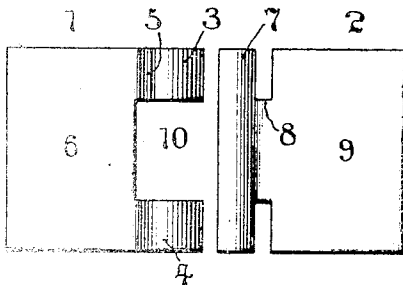


Fig. 4.

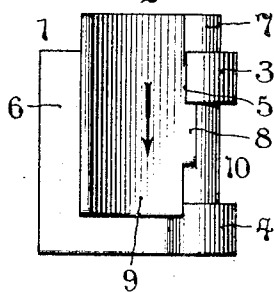


Fig. 6.

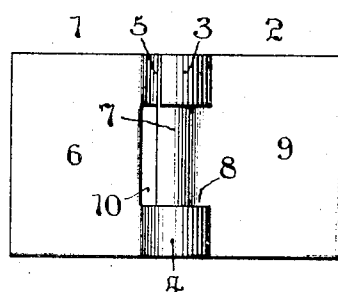


Fig. 7.

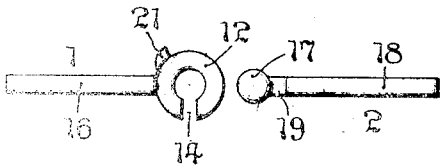


Fig. 9.

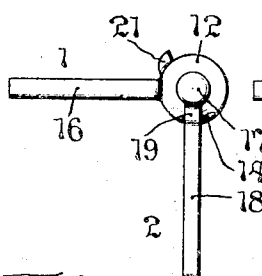


Fig. 11.

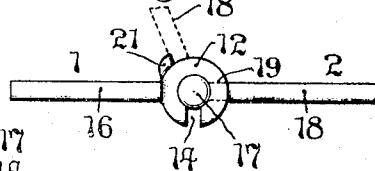


Fig. 8.

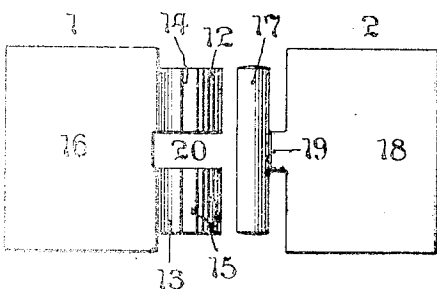


Fig. 10.

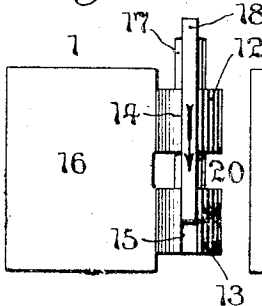
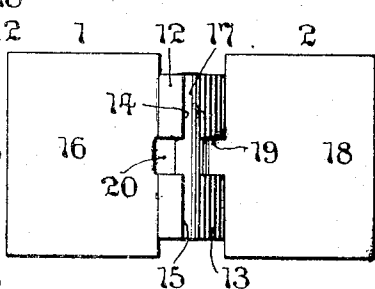


Fig. 12.



Inventor:

Robert Stock
by attorney
Brown & Seward

Patented May 12, 1925.

1,537,562

UNITED STATES PATENT OFFICE.

ROBERT STOCK, OF SANDUSKY, OHIO.

HINGE.

Application filed September 24, 1919. Serial No. 325,988.

To all whom it may concern:

Be it known that I, ROBERT STOCK, a citizen of the United States, and resident of the city of Sandusky, in the county of Erie and State of Ohio, have invented a new and useful Improvement in Hinges, of which the following is a specification.

This invention relates to improvements in hinges and has for its object to provide a hinge having members provided with means by which they may be locked into operative relation and when desired the members may be released.

Another object is to provide a hinge having a knuckle member provided with a slot in the knuckle member through which the pintle member may be inserted and removed, and said knuckle member being provided with a stop for limiting the movement of the pintle member in one direction.

Another object is to provide a hinge having a plurality of knuckles on one member, certain of said knuckles being provided with a slot for the insertion of the fixed pintle member.

A still further object is to provide certain improvements in the form, construction and arrangement of the parts whereby the above named and other objects may be effectively attained.

A practical embodiment of my invention is represented in the accompanying drawings in which,

Fig. 1 represents a plan view of my improved hinge showing the members separated.

Fig. 2 represents a front elevation of the same.

Fig. 3 represents a plan view similar to Fig. 1, showing the member in position to be assembled.

Fig. 4 represents a front elevation of the same.

Fig. 5 represents a plan view of the members in operative relation, the pintle member being shown in dotted outline at the limit of its movement in one direction.

Fig. 6 represents a front elevation of the same.

Fig. 7 represents a plan view of a modified form of hinge member, showing the members separated.

Fig. 8 represents a front elevation of the same.

Fig. 9 represents a plan view of the members in position to be assembled.

Fig. 10 represents a front elevation of the same.

Fig. 11 represents a plan view of the members in operative relation, the pintle member being shown in dotted outline at the limit of its movement in one direction.

Fig. 12 represents a front elevation of the same.

The hinge in all the forms shown in the drawings comprises two members denoted by 1 and 2. The member 1, shown in Figs. 1 to 6 inclusive, is provided with knuckles 3, 4. The knuckle 3 has a vertical slot 5 arranged in close proximity to the leaf or strap 6. The member 2 is provided with a pintle 7 rigidly connected to a neck 8 which projects from the leaf 9. To assemble the members 1 and 2, the member 2 is placed in position above the member 1 so that the pintle 7 will enter the knuckle 3 and the neck 8 in alignment with the slot 5 of the knuckle 3. Upon the member 2 being moved downwardly, as shown by the arrow in Fig. 4, the neck 8 will engage the knuckle 4 and register with the space 10 between the knuckles, whereupon either member may be swung arcuately and limited in movement by a stop 11 fixed on the knuckles 3, 4. In Fig. 5 the pintle member 2 is shown in dotted outline swung to the stop 11. In the form shown in Figs. 7 to 12 inclusive, the member 1 is provided with knuckles 12, 13 having vertical slots 14, 15 arranged approximately at an angle of 90° from the leaf 16. The member 2 is provided with a pintle 17 attached to a leaf 18 by a neck 19 which rides in the space 20 between the knuckles 12, 13. The movement of the members is limited by a stop 21 carried by the knuckles 12, 13.

In all the forms shown, it will be seen that the members 1 and 2 are interlocked and can only be disengaged at the point where the slots are located in the knuckles.

It will also be understood that the stops may be located at various positions on the knuckles to afford different movements of the members.

It is obvious that various changes may be resorted to in the form, construction and arrangement of the several parts without departing from the spirit and scope of my invention; and hence I do not intend to be

limited to the details herein shown and described, except as they may be included in the claims.

What I claim is:

- 5 1. In a separable hinge, the combination with a knuckle member and a member having a pintle connected thereto by a neck, said knuckle member being provided with a slot for the reception and removal of said neck,
10 of a laterally projecting stop on the knuckle member adapted to be engaged by the pintle member for limiting the movement of the members.
2. In a separable hinge, the combination with a knuckle member and a member having
15 a pintle connected thereto by a neck, said knuckle member being provided with a slot for the reception and removal of said neck, of a laterally projecting stop formed in-
20 tegral with the knuckle member and adapted to be engaged by the pintle member for limiting the movement of the members.

In testimony that I claim the foregoing as my invention, I have signed my name this 22nd day of September, 1919.

ROBERT STOCK.