

No. 854,580.

PATENTED MAY 21, 1907.

W. S. JOHN.
HINGE.

APPLICATION FILED DEC. 6, 1908.

Fig. 1.

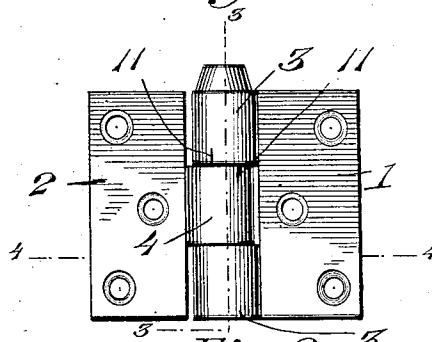


Fig. 2.

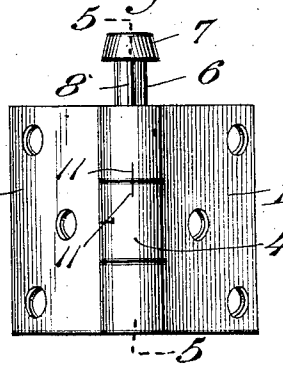


Fig. 5.

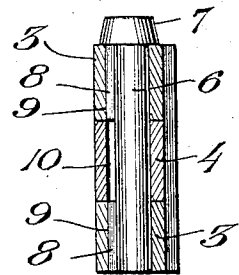


Fig. 4.

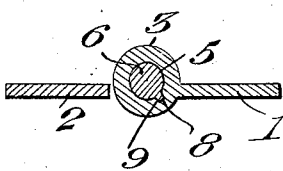
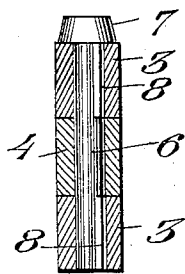


Fig. 3.



Inventor

William S. John.

Witnesses

Phil. C. Barnes
J. S. Elmore

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM S. JOHN, OF HUMANSVILLE, MISSOURI, ASSIGNOR OF ONE-HALF
TO EDGAR E. JOHN, OF BILLINGS, MONTANA.

HINGE.

No. 854,580.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed December 5, 1906. Serial No. 346,455.

To all whom it may concern:

Be it known that I, WILLIAM S. JOHN, a citizen of the United States, residing at Humansville, in the county of Polk and State of Missouri, have invented new and useful Improvements in Hinges, of which the following is a specification.

This invention relates to hinges, and has for its objects to provide a comparatively simple, inexpensive device of this character wherein the hinge leaves may be readily and securely maintained in operative relation, and one wherein the pintle will be normally locked against longitudinal movement, thus to prevent its accidental escape from the hinge knuckles.

With these and other objects in view, the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings: Figure 1 is an elevation of a hinge embodying the invention, showing the parts operatively connected. Fig. 2 is a similar view, showing the position of the parts during the operation of inserting or removing the hinge pintle. Fig. 3 is a detail sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a cross section taken on the line 4—4 of Fig. 1. Fig. 5 is a sectional view taken on the line 5—5 of Fig. 2, showing the pintle fully seated in place.

Referring to the drawings, it will be seen that the hinge comprises a pair of hinge members or leaves 1 and 2 of which the former is provided with a pair of spaced knuckles 3 adapted to receive between them a corresponding knuckle 4 formed on the leaf 2 to form conjointly therewith a pintle receiving barrel having a central, longitudinal bore 5 designed to receive a pivoting bolt or pintle 6 for hingedly connecting the leaves.

The pintle 6 which has a head 7 formed on its normally upper end is provided with a pair of longitudinally spaced splines or feathers 8 adapted to fit in corresponding grooves or channels 9 formed in axial alinement in

the knuckles 3, there being formed in the central knuckle 4 a corresponding longitudinal groove or channel 10 which normally non-registers but may be brought into alinement with the grooves 9 to permit insertion or removal of the pintle 6, while formed on the knuckle 4 and one of the knuckles 3 is a pair of indicator marks 11 adapted to indicate the alinement of the grooves 9 and 10 and facilitate insertion or removal of the pintle.

In practice, the parts of the hinge are assembled by arranging the knuckle 4 between the knuckles 3 with the leaves 1 and 2 disposed at an angle to each other and the marks 11 in register, whereupon the groove 10 will register with the grooves 9 to permit ready introduction of the pintle 6. After the pintle has been introduced the hinge leaves are turned to the position as in Fig. 1, whereupon the groove 10 will be moved out of alinement with the grooves 9, thereby causing the end walls of the knuckle 4 to engage the inner ends of the splines 8 for locking the pintle against longitudinal movement, thus to obviate its accidental escape.

Having thus described my invention, what I claim is:

A hinge comprising a pair of leaves having knuckles adapted to conjointly form a barrel provided with a longitudinal bore, a pintle extended longitudinally through said barrel for hingedly connecting the leaves, said pintle being provided with a pair of spaced longitudinal splines and the knuckles having longitudinal grooves to receive said splines, the groove in one of the knuckles being adapted to non-register with those in the other knuckles for locking the pintle against longitudinal movement.

In testimony whereof, I affix my signature in presence of two witnesses.

WILLIAM S. JOHN.

Witnesses:

E. FOSTER,

T. C. MASHBURN.