

(No Model.)

H. W. BAKER & W. J. STUMP.
HINGE.

No. 473,688.

Patented Apr. 26, 1892.

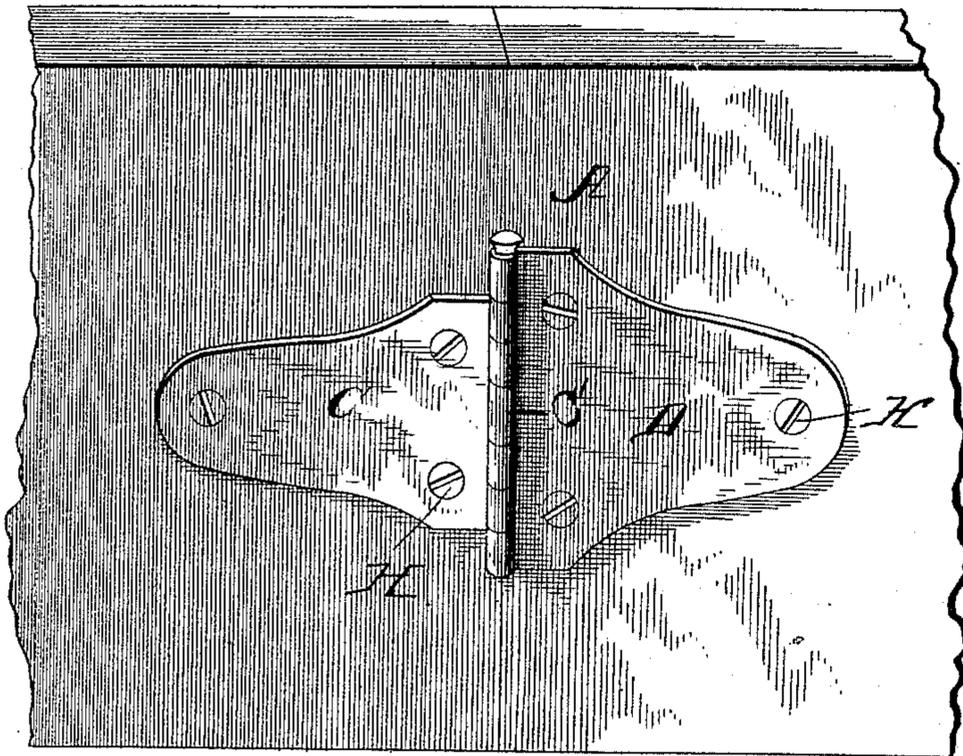


Fig. 1.



Fig. 2.

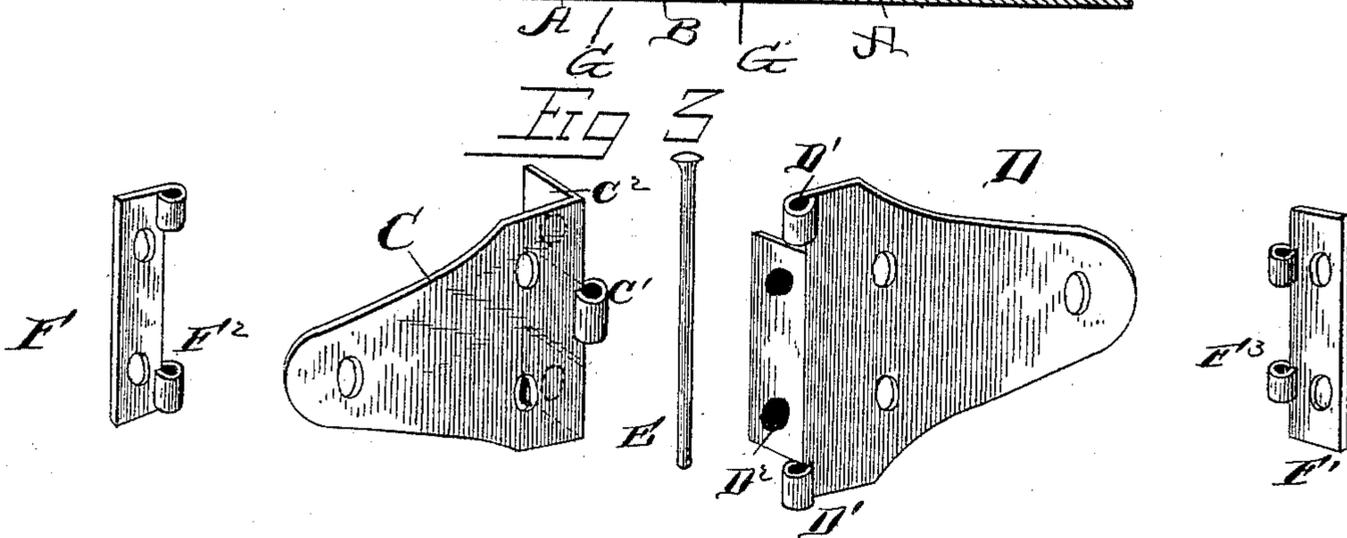


Fig. 3.

WITNESSES

J. B. McGivver
D. H. Naylor

Henry W. Baker
William J. Stump
INVENTORS

by *Wm. A. Moore*
Attorney.

UNITED STATES PATENT OFFICE.

HENRY W. BAKER AND WILLIAM J. STUMP, OF KEYSER, WEST VIRGINIA.

HINGE.

SPECIFICATION forming part of Letters Patent No. 473,688, dated April 26, 1892.

Application filed March 14, 1891. Serial No. 384,984. (No model.)

To all whom it may concern:

Be it known that we, HENRY W. BAKER and WILLIAM J. STUMP, citizens of the United States, residing at Keyser, in the county of Mineral and State of West Virginia, have invented certain new and useful Improvements in Hinges; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in hinges, and is what may be termed a "double hinge;" and the object of our invention is the provision of a hinge which will hold securely in position and not permit the door or other part to which it is attached to move from the proper position, which will be strong and durable in construction, and which can be produced at a comparatively low price.

To attain the desired objects the invention consists of a hinge constructed substantially as herein illustrated and described, and finally specifically defined by the claims.

In order that the construction, operation, and advantages of our hinge may be readily understood and appreciated, we have illustrated the invention in the accompanying drawings, in which—

Figure 1 represents a perspective view of the hinge attached in position. Fig. 2 represents a sectional view thereof. Fig. 3 represents a perspective view of the parts of the hinge detached to more clearly illustrate the construction thereof.

Referring by letter to said drawings, in which similar letters are used to designate corresponding parts in all the figures thereof, A designates the parts to which our hinge is applied, which are provided on their opposing edges with recesses B, the purpose of which will presently appear.

The hinge illustrated in Figs. 1, 2, and 3 is what may be considered a "combined butt and strap hinge," and consists of the leaf C, having the inner end formed with a bearing or sleeve C' at or near the center thereof, and the two lugs or lips C², one on each side of the sleeve C', and arranged at a right angle to the leaf

and reversely to the said lips C², the leaf D of said hinge having the bearings or sleeves D' at the upper and lower sides, and the lug or lip D² between said lips and at a right angle to the leaf reversely to said bearings of the leaf. Passing through the sleeves or bearings C' and D' of said leaves is the pintle E, thus forming a pivot for the leaves, and the leaves F and F' of the butt-hinge are formed with eyes or bearings F² and F³, which also engage the said pintle and are arranged as shown with reference to the strap-leaves.

By the double construction of hinge, as set forth, combining a strap-hinge and an intermediate hinge, a reinforced device is provided with the greatest resistance at the point of greatest strain and wear. This is accomplished by the formation, with the strap-hinge, of the angularly-projecting leaves or lips with openings therein, against which the leaves of the butt-hinge are applied with the openings therein aligning with said openings of the strap-hinge. The bearings or knuckles of each set of hinges align with each other and all are pivotally connected by a single pintle. It will be seen that the double set of leaves stiffen the joint of the hinge, and combines therewith the strap connection with the frame and door. From this construction it will be seen that the hinges are all mounted on the same pintle and that the lips C² and D² are first placed in the recesses B, and then the leaves F and F' are placed upon said lips, and through the leaves and lips are passed suitable retaining screws or bolts G, and the leaves C and D are secured to the parts by means of fastenings H, all as clearly shown. From this construction it is evident that the parts of the hinge are securely attached and that they form a lock to prevent the door from sagging or moving from its true position. It will also be seen from the foregoing description and drawings that our hinge can be used either as a butt or strap hinge, or as both as a combined butt and strap hinge, and will be thoroughly efficient. It will also be seen that the hinge can be made by stamping the parts out of suitable metal or the parts may be cast, as may be found convenient and desirable. It will also be seen that the arrangement and manner of securing the parts is such as to properly distribute the strain thereon and to

always retain the parts to which the hinge is attached in the true position. It is also evident that our hinge is compact, strong, and durable, is of ornamental appearance and will not disfigure the door or other part to which it is applied, and can be produced at such a price as will make it economical and practical.

We claim as our invention—

1. A hinge consisting of two leaves having lips at right angles thereto and eyes or sleeves, leaves having eyes or sleeves and adapted to rest against and be secured to said lips, and a pintle passing through the eyes or sleeves of all of said leaves.

2. A hinge consisting of a leaf having a

central eye or sleeve and lips at right angles thereto, a leaf having a central lip and sleeves at the edges thereof, leaves having sleeves normally in line with the sleeves of the first-named leaves and adapted to rest against and be secured to said lips, and a pintle passing through all of said sleeves, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

HENRY W. BAKER.
WILLIAM J. STUMP.

Witnesses:

L. A. RIZER,
C. R. WAGONER.