No. 721,641. PATENTED FEB. 24, 1903.

J. WHITEHEAD.

HINGE.

APPLICATION FILED JULY 25, 1902.

NO MODEL.

Fig. 1.

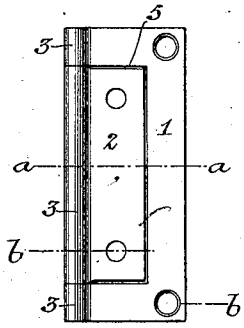


Fig. 5.

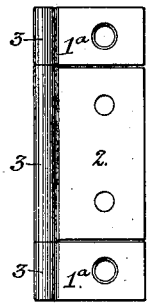


Fig. 2.

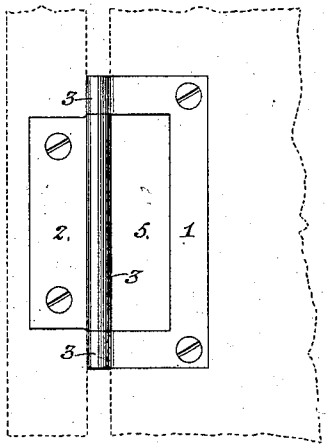


Fig. 4.

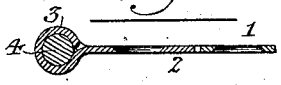
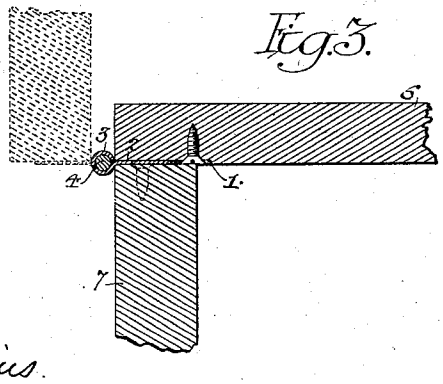


Fig. 3.



Witnesses:-

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by his Attorneys;

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

UNITED STATES PATENT OFFICE.

JOHN WHITEHEAD, OF NEWBURGH, NEW YORK, ASSIGNOR OF ONE-HALF TO WILLIAM H. MARGERISON AND A. E. MARGERISON, OF PHILADELPHIA, PENNSYLVANIA.

HINGE.

SPECIFICATION forming part of Letters Patent No. 721,641, dated February 24, 1903.

Application filed July 25, 1902. Serial No. 116,972. (No model.)

To all whom it may concern:

Be it known that I, JOHN WHITEHEAD, a citizen of the United States, and a resident of Newburgh, New York, have invented certain Improvements in Hinges, of which the following is a specification.

The object of my invention is to so construct a cabinet-hinge as to permit snug closing of the door or other hinged part against the frame or fixed portion without the necessity of mortising more than one of the parts and without mortising that part as deeply as usual. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a view of my improved hinge, showing the leaves of the same closed. Fig. 2 is a view of the hinge, showing the leaves of the same open and also showing by dotted lines parts of a door and door-frame connected by means of said hinge. Fig. 3 is a transverse section on the line *a a*, Fig. 1, showing the hinge connected to a door and door-frame, the door being shown closed by full lines and open by dotted lines. Fig. 4 is an enlarged section of the hinge on the line *b b*, Fig. 1; and Fig. 5 is a view similar to Fig. 1, but showing another form of hinge embodying my invention.

The hinge shown in Fig. 1 comprises two leaves 1 and 2, each provided with a looped portion or hub 3, whereby it is hung to the pintle 4, each leaf projecting from this portion in line radially with the axis of the pintle, so that when the hinge is closed, as shown in Fig. 1, both leaves will occupy the same radial plane, the leaf 1 being centrally recessed, as at 5, for the reception of the leaf 2, as best shown in Fig. 4. Such a hinge when used to connect a door and door-frame or equivalent parts which are to be connected together permits of the close fitting of one part to the other, while necessitating the mortising of only one of the parts, and that only to the extent of the thickness of the hinge-leaf, as shown in Fig. 3, where the portion 6 represents part of a frame or casing and the portion 7 part of a door hinged thereto, whereas an ordinary cabinet-hinge having its leaves extending tangentially from the periphery of the pintle requires the mortising of each part to the extent of one-half of the full thickness of the hinge or the mortising of one of the parts to the extent of the full thickness.

While I prefer in all cases to make the hinge as shown in Fig. 1—that is to say, with the leaf 1 centrally recessed for the reception of the leaf 2—said leaf 1 may, if desired, comprise independent parts such as shown at 1^a in Fig. 5, these parts serving the same purpose as the single leaf 1 of Fig. 1 and being for the purposes of this invention considered as a single leaf.

I am aware that it has been proposed to make a strap-hinge of two parts, one cut from the central portion of the other; but the purpose of this invention was simply to save material, and the resemblance between such hinge and mine is only superficial, since it lacks one of the essential features of my hinge—that is to say, the disposition of both of the leaves of the hinge in line radially with the axis—that is, the central line of the pintle.

When the hinge is made of sheet metal, the heads 3 can be formed by bending the same; but in hinges of the larger size the leaf and hub can be cast.

Having thus described my invention, I claim and desire to secure by Letters Patent—

A cabinet-hinge comprising two leaves each with coiled portion or hub for the reception of the pintle, each of said leaves projecting radially from the central line of the pintle and one of the leaves being recessed for the reception of the other whereby when the hinge is closed the opposite surfaces of the leaves will lie respectively in the same planes, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN WHITEHEAD.

Witnesses:

THOMAS MITCHELL,

FREDERICK DENNISTON.