

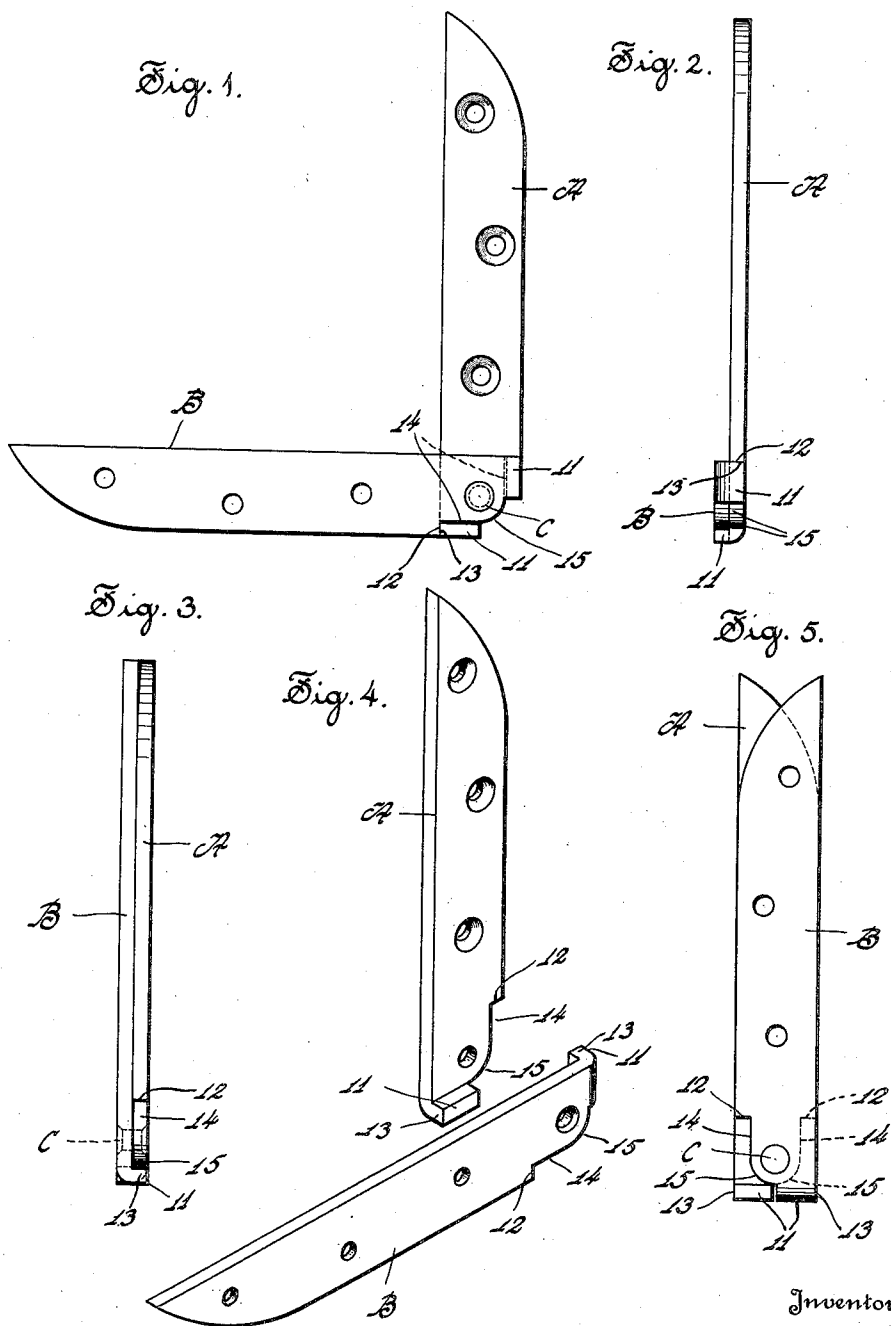
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HINGE

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HINGE

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This invention relates to hinges and, particularly, to hinges of the sort adapted to pivotally support a leaf, lid or cover, such, for example, as the leaf or lid of a desk, cabinet or the like. My improved hinge, while having general application, is particularly adapted for use in hingedly supporting a leaf or closure which, when in open condition, is substantially in a horizontal plane.

The aim of the present invention is to provide a hinge of this sort which is very simple in construction, which may be cheaply manufactured, which may be readily assembled and applied, and which is relatively strong.

In accordance with the present invention, the hinge is made of two identical leaves, each of the leaves being of such shape that it may be economically made by stamping out a blank from sheet metal, the leaves having such relation to one another when assembled that the pivot connecting the leaves is relieved, to a large extent, of lateral strains.

Other objects will be in part obvious and in part pointed out more in detail hereinafter.

The invention accordingly consists in the features of construction, combination of elements and arrangement of parts which will be exemplified in the construction hereinafter set forth and the scope of the application of which will be indicated in the appended claims.

Referring to the drawings in detail, wherein I have shown, for illustrative purposes, one embodiment which the present invention may take:

Figure 1 is a side elevation of the hinge in open condition;

Fig. 2 is a forward edge view of the hinge in open condition;

Fig. 3 is an edge view of the hinge in closed condition;

Fig. 4 is a perspective view of the hinge leaves; and

Fig. 5 is a side view of the hinge in closed condition.

Referring to the drawings in detail, my improved hinge is composed of two leaves A and B pivotally connected by a pin or rivet C. It may be assumed, for purposes of example, that the leaf A is secured to the body

of the cabinet or desk at the side of the opening in the front thereof, and that the leaf B is connected to the end edge of the cover or lid which is adapted to be swung from an open horizontal position to a closed vertical position. It will be evident, however, as the description proceeds, that either of the leaves may be connected to the body portion and the other one to the lid or cover.

Each leaf of the hinges is, as previously stated, preferably formed from sheet metal by stamping out a blank of the desired configuration. Each leaf has, at its pivoted end, a lug which, when the hinge is in the open position shown in Fig. 1, engages in abutment on the other leaf. The lugs are designated by the numeral 11 and the abutments by the numeral 12. In the present illustrative disclosure, the lugs 11 are at the extreme pivoted ends of the leaves and extend from one side edge of the leaf to short of the longitudinal medial line thereof. The end 13 of each lug forms a shoulder which is adapted to engage an abutment 12. The other side edge of the leaf, adjacent the pivot, is recessed or stepped as at 14 so as to provide the shoulder or abutment 12. The abutment 12 and the shoulder 13 of each leaf are generally to opposite sides of the pivot C and disposed generally at like distances therefrom. The rear end of the leaf at the side of the lug 11 is curved or rounded, as at 15.

From the foregoing description, taken in connection with the accompanying drawing, it will be seen that my improved hinge comprises two identical parts, and the hinge may be used either on the left hand side or the right hand side of the member to be pivotally supported.

Each leaf may be formed by stamping from a sheet of metal a blank with one end formed to provide a tab, which tab may then be turned up at right angles so as to constitute the lug 11. When the hinge is in closed or folded position, as shown in Figs. 3 and 5, the lugs are in alignment with one another and within the confines of the side edges of the leaves. When the hinge is open, as shown in Figs. 1 and 2, the active end 13 of each lug 11 engages against the abutment or

shoulder 12 of the other leaf. The horizontal leaf B is then in the form of a level, so to speak. The engagement of each lug against the other leaf limits the extent of opening movement of the hinge and, due to this engagement, lateral or shearing strains on the pivot pin or fulcrum are considerably reduced.

As many changes could be made in the above construction and many apparently widely different embodiments of this invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the language used in the following claims is intended to cover all of the generic and specific features of the invention herein described and all statements of the scope of the invention which, as a matter of language, might be said to fall therebetween.

I claim as my invention:

1. A hinge of the character described comprising a pair of identical leaves in the form of strips, and a pin pivotally connecting said leaves, each of said leaves having at its pivoted end a laterally extending lug and an abutment to opposite sides of said pin.

2. A hinge of the character described comprising a pair of identical leaves, and a rivet pivotally connecting said leaves, each of said leaves having on its pivoted end a lateral lug extending from one side edge of the leaf to a point adjacent the medial line thereof, each of said leaves having in its other edge a recess with a shoulder with which the lug of the other leaf engages when the hinge is open.

3. A hinge of the character described comprising a pair of identical leaves, each composed of a flat, thin strip of metal, and each having at its edge an integral outwardly bent projecting portion constituting a laterally extending lug, said leaves engaging flat-wise against each other when the hinge is closed and the pivoted leaf being adapted to swing in the plane of its width, and a pivot member pivotally connecting said leaves, the lug of each leaf projecting into the plane of the other leaf and being adapted to engage the edge of the other leaf when the hinge is opened.

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