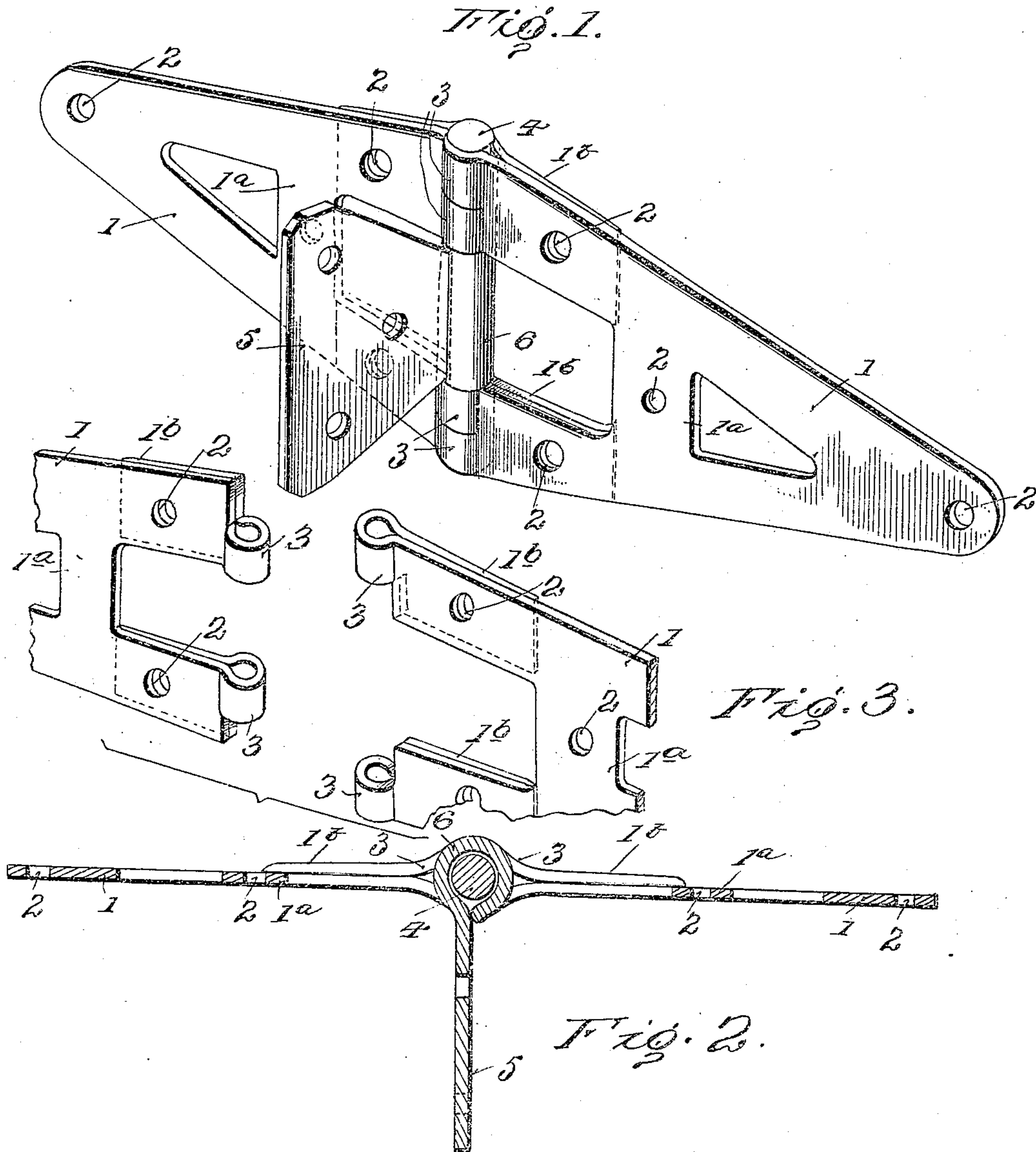


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HINGE.

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Witnesses
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HINGE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES C. MEYER, a citizen of the United States, residing at Vincennes, in the county of Knox and State of Indiana, have invented certain new and useful Improvements in Hinges, of which the following is a specification.

The object of this invention is to form a simple, strong and durable hinge, and the invention consists in certain constructions, and arrangements of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a hinge embodying the improvements of my invention; Fig. 2 is a longitudinal sectional view thereof; Fig. 3 is a detail perspective view of portions of the main leaves constituting the hinge detached.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

My improved hinge comprises two A-shaped main leaves 1 the cross beams 1^a of which are each formed with a screw hole 2, and the adjoining ends of which are returned upon themselves as indicated at 1^b, said doubled ends or extremities being cut away to form knuckles 3 arranged in two pairs with an open space between as clearly illustrated in Fig. 1.

4 designates the pintle or hinge pin which is inserted through the knuckles 3 whereby to hingedly connect the leaves 1.

5 designates an auxiliary leaf one end of which is curled upon itself as indicated at 6 to form a knuckle which is mounted to swing upon the hinge pin 4, the knuckle 6 slipping in between the two pairs of knuckles 3, and serving as a brace common to both pairs of knuckles thereby effectually preventing the breaking down of the main leaves at this point, it being noted that all of the parts with the exception of the hinge pin are constructed of relatively light sheet metal. By this means a strong and durable hinge is provided. The doubled ends of the metal

straps or leaves 1 are also formed with screw holes 2, said holes extending through both pairs whereby when the screws are applied, the doubled ends are held securely together by the screws and the parts prevented from separating.

In the practical use of my improved hinge two of the parts of the same, say for instance, one of the main leaves 1 and the auxiliary leaf 5 are secured to the hinge post or jamb of the door casing, and the remaining part is secured to the door or gate which is thus rendered susceptible of being swung into open position in both directions, and when left in such position, it will be seen that the hinge is braced by the parts thereof secured to the support on opposite sides of the hinge pin, thus preventing the hinge from being subjected to excessive strain, and considerably increasing the efficiency thereof.

Having thus described the invention, what is claimed as new is:

A hinge comprising main leaves having their inner ends bifurcated to form spaced arms, the terminals of which are returned upon themselves a distance equal to the length of the bifurcation and bear against the adjacent sides of the leaves at the bifurcated portion thereof to form spaced knuckles, the inner portions of the knuckles of one leaf being cut-away and the outer portions of the knuckles on the mating leaf being cut-away to permit the knuckles on one leaf to interengage with the knuckles on the mating leaf, a single auxiliary leaf disposed at the abutting ends of the main leaves and having one end thereof bent upon itself to form a knuckle interposed between the knuckles of one of said main leaves, and a pintle extending through all of said knuckles and forming the pivotal axis of said main and auxiliary leaves, there being openings formed in the auxiliary leaf and in the arms of the main leaves for the reception of fastening devices.

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

CHARLES C. MEYER. [L. s.]

Witnesses:

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