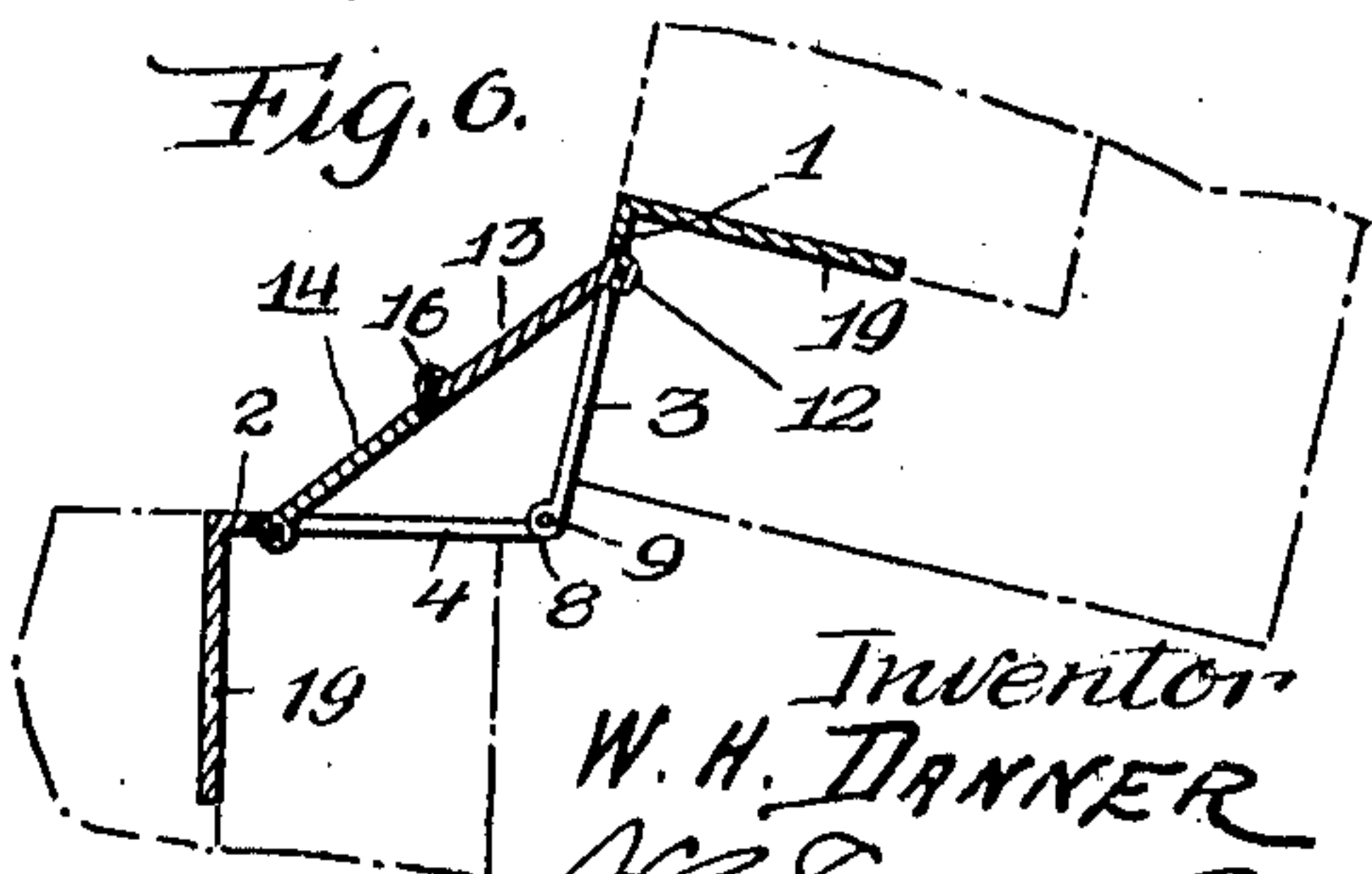


HINGE.

992,115.

Patented May 9, 1911.



Witnesses:—

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HINGE.

992,115.

Specification of Letters Patent.

Patented May 9, 1911.

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To all whom it may concern:

Be it known that I, WILLIAM H. DANNER, a citizen of the United States of America, residing at Marietta, in the county of Washington and State of Ohio, have invented certain new and useful Improvements in Hinges, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to hinges and the primary object of the invention is to provide a hinge that can be advantageously used in connection with a trunk, tool chest, or any receptacle having a hinged lid, the
15 hinge being designed to limit the opening movement of the lid and to retain the lid at such an angle when in an open position that the lid will not be subjected to stresses or strains due to its weight or will not contact
20 and in all probability injure walls or surfaces in the vicinity of the receptacle.

Another object of the invention is to furnish a hinge with simple and effective means for limiting the opening movement of the
25 hinge, the hinge being constructed whereby it can be used and installed similar to the present type of leaf hinge.

I attain the above objects by a mechanical construction that will be hereinafter specifically described and then claimed, and reference will now be had to the drawing forming a part of this specification, wherein:

Figure 1 is a sectional view of a portion of a receptacle having a lid showing the
35 hinge in full lines in a closed position and in dotted lines in an open position. Fig. 2 is a perspective view of a detached hinge in a closed position. Fig. 3 is a similar view of the hinge in an open position. Fig. 4 is an
40 enlarged side elevation of a modified form of hinge in a closed position. Fig. 5 is a longitudinal sectional view of the same, and Fig. 6 is a similar view showing the hinge in an open position.

45 A hinge in accordance with this invention comprises two leaves 1 and 2 bifurcated or cut away, as at 3 and 4 respectively, the cut away material being utilized for a purpose that will presently appear. The leaves
50 1 and 2 have the bifurcated ends thereof cut away, as at 5 and 6, and bent to provide knuckles 7 and 8, the knuckles 7 extending

into the cut away portion 5 of the leaf 1 and the knuckles 8 extending into the cut away portion 6 of the leaf 2, whereby said
55 knuckles can longitudinally alipe and be connected by pivot pins 9.

In bifurcating or cutting away the leaves 1 and 2, as at 3 and 4, the closed end of each bifurcation is provided with knuckles 10
60 and pivotally connected to these knuckles by pins 11 are knuckles 12 carried by members 13 and 14, these members corresponding to the material removed from the bifurcations 3 and 4. The members 13 and 14 are
65 provided with knuckles 15 pivotally connected together by a pin 16.

The hinge is made of light and durable metal and the members 13 of a thickness corresponding to the leaves 1 and 2, whereby
70 said members will occupy the bifurcations 3 and 4 when the hinge is folded.

As shown in Fig. 1, the receptacle 17 has the leaf 2 suitably connected to the upper edge thereof and the leaf 1 is suitably con-
75 nected to the lid 18 of the receptacle. When the lid is swung to an open position as shown in dotted lines, the members 13 and 14 will support the lid 18 at an inclination to the receptacle 17 and prevent its weight
80 from unduly subjecting the hinge and its connections to any stresses and strains.

A modification of the invention is shown in Figs. 4 to 6 inclusive, wherein the outer ends of the leaves 1 and 2 are extended and
85 bent at right angles to provide lugs 19, these lugs being secured to the inner side of the receptacle and the lid thereof and providing additional fastening means for securing the
90 hinge in position.

While in the drawings there is illustrated a preferred embodiment of the invention, it is to be understood that the structural elements thereof are susceptible to such changes as fall within the scope of the appended
95 claim.

What I claim, is:

A hinge comprising a pair of leaves each bifurcated to provide a pair of arms with the free ends of the arms of one leaf opposing
100 the free ends of the arms of the other leaf, means for pivotally connecting the arms of one leaf to the arms of the other leaf, a brace formed with a pair of members, each

of said members mounted in a furcation
and of less length than the length of the fur-
cation, means for hinging one end of a mem-
ber directly to the inner wall of a furcation,
5 means for hinging the other ends of the
members together, said members of the same
thickness as said leaves whereby when the
leaves are folded, the members will nest in

said furcations and be flush with the faces of
said leaves. 10

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

WILLIAM H. DANNER.

Witnesses:

HOWARD M. DANNER,
RALPH R. COMBS.