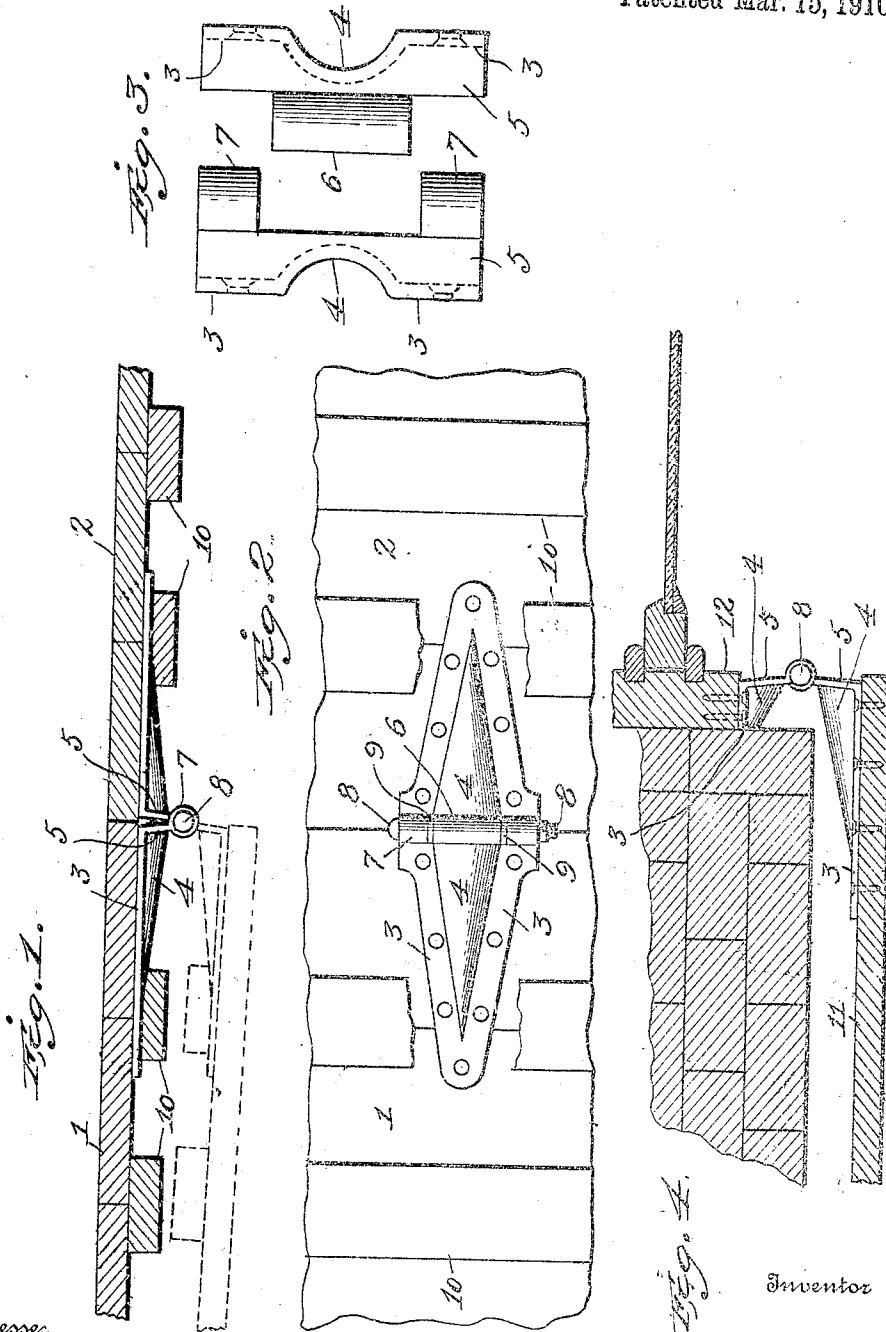


E. L. WILLIAM.
HINGE.

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952,059.

Patented Mar. 15, 1910.



Witnesses

Revin Bridges
Edwin Grey

By

Edward L. William

Edwin L. Jewell Attorney

Inventor

UNITED STATES PATENT OFFICE.

EDWARD L. WILLIAM, OF MOUNT STERLING, KENTUCKY.

HINGE.

952,059.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD L. WILLIAM, a citizen of the United States, residing at Mount Sterling, in the county of Montgomery and State of Kentucky, have invented certain new and useful Improvements in Hinges, of which the following is a specification.

My invention relates to hinges of that character known as strap hinges, and has for its object to provide certain improvements in the construction of the same as will be hereinafter more definitely pointed out and claimed, reference being had to the accompanying drawing, in which—

Figure 1 is a horizontal sectional view of a portion of a wooden building showing one of my improved hinges connecting a door thereof with the building wall. Fig. 2 is a front elevation of the same. Fig. 3 is a detail end view of the two parts of the hinge separated. Fig. 4 is a view similar to Fig. 1 showing my improved hinge applied to a window shutter.

Similar numerals of reference denote corresponding parts in the several views.

In the said drawing the reference numeral 1 denotes the wall of the building, and 2 the door.

My improved hinge is formed of two V-shaped leaves, each comprising a narrow outer surface 3 on each side uniting at the outer end of the leaf and connected by an intermediate arched reinforcement 4. The leaves at their inner ends are projected at an angle to their body portions at 5 and are provided with a removable bolt or pin receiving knuckles 6, 7. I prefer to unite the leaves by means of a bolt 8, and to render the movement of the parts easier I interpose washers 9 between the adjacent ends of said knuckles 6, 7.

By my improved construction wherein the knuckles 7 and 8 are offset from the parts to which their leaves are united by the projections 5, it will be seen that the door 2 will be permitted, when open, to lie snugly against the outer wall of the building, even when the latter and said door are provided with battens 10. By forming the leaves of the hinge with the narrow outer surface 3, which forms the connecting surface with the wall and door, and which is apertured at intervals to receive the screws, and by providing the intermediate arched reinforcement 4, I not only materially strengthen

said leaves, but also provide, in a wide leaf, a comparatively narrow contact surface with the wood-work, thus reducing the covered surface and preventing the rotting of the underlying wood-work through the accumulation of moisture thereunder. A further advantage in the reinforcement 4 is that the projections 5 are firmly braced thereby and may be projected materially without adding to the weight of the leaf. It will be observed by reference to Fig. 1 that the projections 5 of the leaves are disposed at such an angle that when the hinge is closed a V-shaped space is left therebetween, which will not permit of an accumulation of ice or snow to interfere with the closing of the door.

In Fig. 4 I have shown my improved hinge used with a shutter 11, that leaf of the same which is fastened to the window frame 2 being materially shortened to fit the width of said frame. It will be observed that my construction permits the window frame leaf of the hinge to be connected with the edge of said frame, instead of its inner face, whereby screws of any length may be used to attach it.

Having thus described my invention what I claim as new is:—

1. A hinge, embodying leaves each formed of a narrow outer surface adapted to contact with the part to which it is to be united, an intermediate arched reinforcement, an angular projecting inner end against which said reinforcement abuts to brace the same, and knuckles formed at the outer edge of said projecting inner end.

2. A hinge, embodying leaves each formed of a narrow outer surface adapted to contact with the part to which it is to be united, an intermediate arched reinforcement, an angular projecting inner end against which said reinforcement abuts to brace the same, and knuckles formed at the outer edge of said projecting inner end, said arched reinforcement being broadest at its point of contact with the projecting inner end and tapering, both in height and width, toward its other end.

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

EDWARD L. WILLIAM.

Witnesses:

B. FRANK PERRY;
REZIN McCURE.