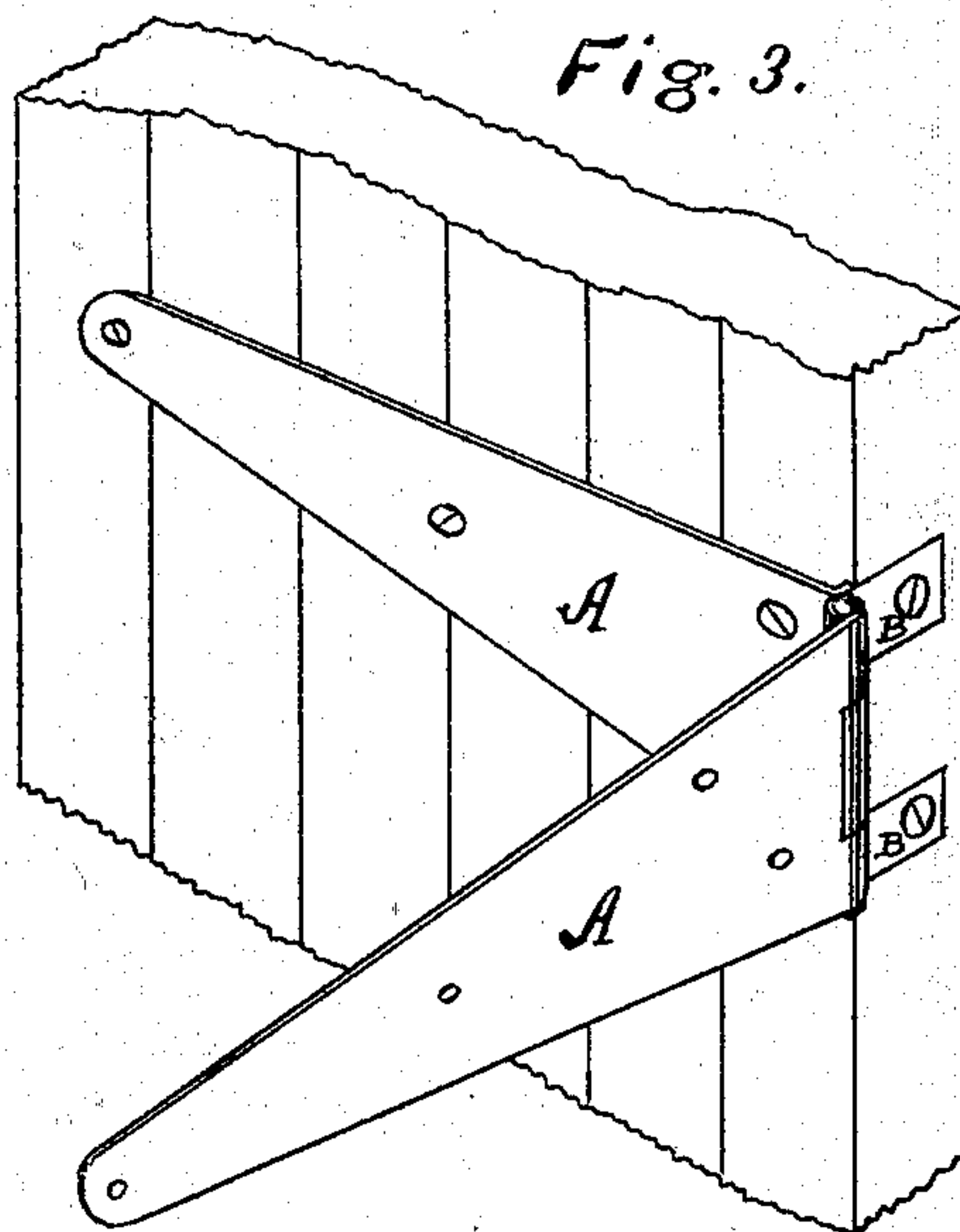
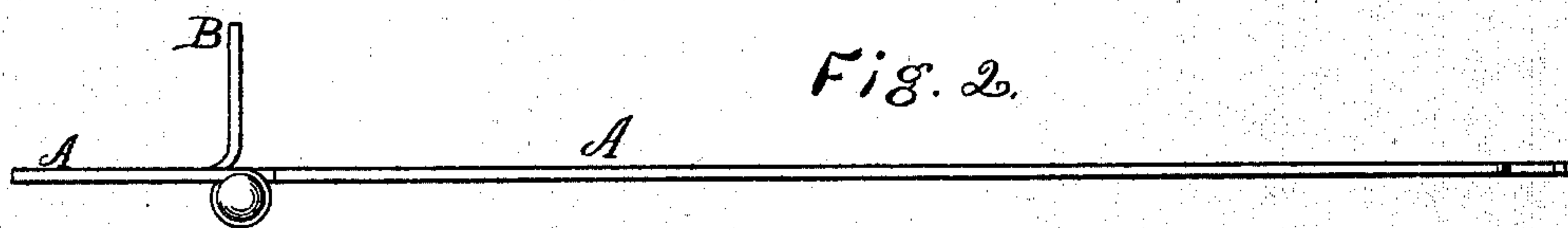
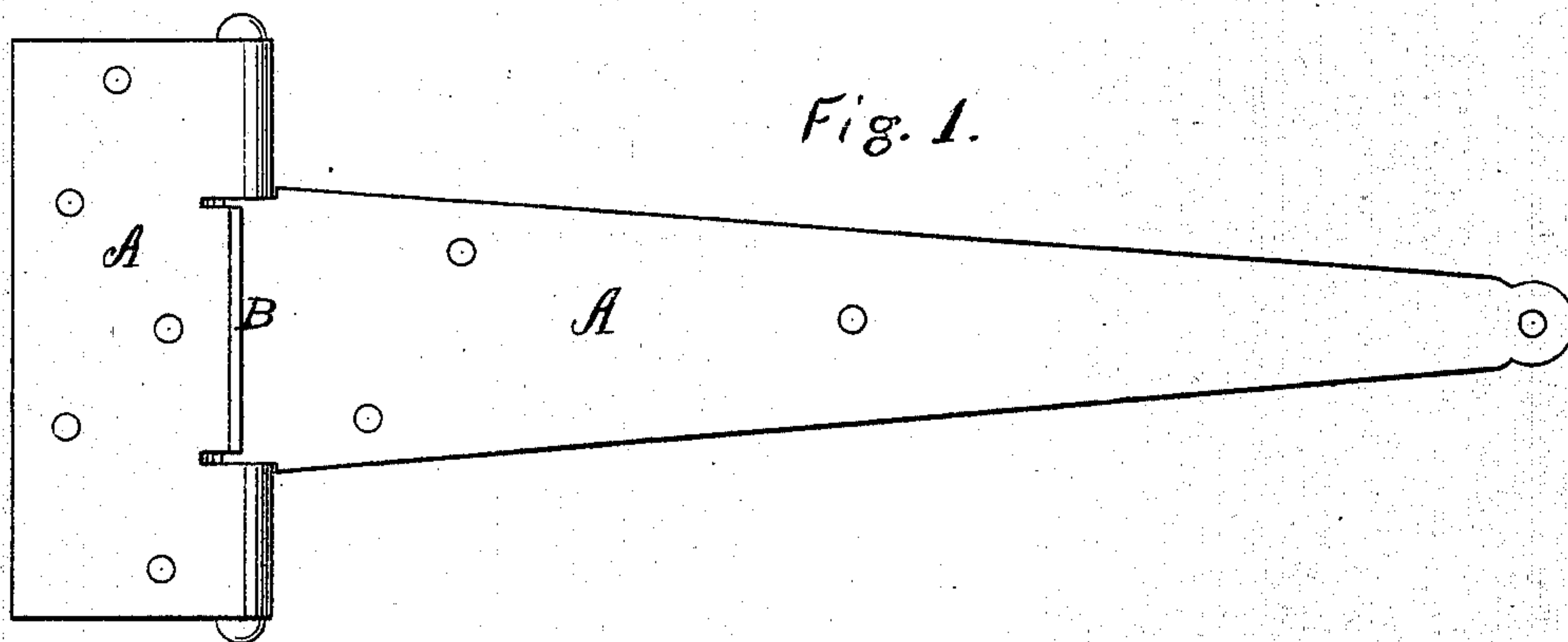


W. H. HART.
Sheet-Metal Hinges.

No. 139,464.

Patented June 3, 1873.



Witnesses.

Nella Shepard.
C. A. Shepard.

Inventor.

William H. Hart.
By James Shepard Atty.

UNITED STATES PATENT OFFICE.

WILLIAM H. HART, OF NEW BRITAIN, CONNECTICUT.

IMPROVEMENT IN SHEET-METAL HINGES.

Specification forming part of Letters Patent No. **139,464**, dated June 3, 1873; application filed May 13, 1873.

To all whom it may concern:

Be it known that I, WILLIAM H. HART, of New Britain, in the county of Hartford and State of Connecticut, have invented a new and Improved Sheet-Metal Hinge, of which the following is a specification:

In my improved hinge the portion or portions which have to be removed from the hub of one leaf to make room for the hub of its fellow are bent out, instead of cut away, and form a rigid arm, standing at about right angles to the leaf, as hereafter described.

My improvement is designed for that class of hinges, the leaves of which rest upon the flat surface of the door and wall, and which are usually termed strap and T-hinges, in contradistinction to that class in which the leaves rest upon the edges of the door and siding.

In the accompanying drawing—

Figure 1 is a rear elevation of a T-hinge, which embodies my invention. Fig. 2 is a top or edge view of the same; and Fig. 3 is a perspective view of a strap-hinge, which embodies my invention, and one leaf of which is secured to a side wall.

A A represent the leaves of the hinge, and B designates the rigid arm formed upon one of the leaves A. If in a T-hinge it should be formed upon the short leaf, as shown in Figs. 1 and 2, but for a strap-hinge, Fig. 3, it may be formed upon either leaf or both leaves, if desired.

I form these hinges of sheet metal and make them by simply slitting the ends of the leaf and then bending a portion or portions into a coil to form the hub, as in the ordinary sheet-metal hinge, and bending out the arm B from the portion or portions which have to be removed to make room for the coil or hub of the opposite leaf, and which portion is cut

out and wasted in the ordinary sheet-metal hinge.

In bending out the arm B care should be taken to bend it sufficiently to allow free play for the hub of the opposite leaf, and it should be left with the outside of the arm B nearly in line with the axis of the pintle, as shown in Figs. 1 and 2.

The manner of securing the leaf and arm B by screws, in their proper position, to the siding or wall is clearly shown in Fig. 3.

Whether there be one or more arms, B, depends merely upon whether one or more portions of the hub are to be removed to make room for its fellow, for if the arm is bent from a hub, in which only one portion is removed, as in Figs. 1 and 2, there will be but one arm to bend out, but if it is bent from the opposite hub of a strap-hinge, in which two portions of the hub are removed, as in Fig. 3, two arms may be bent out.

The object of my invention is to produce a hinge which, without increasing its size and the stock from which it is made, may be secured in place with extra firmness, and I produce this superior hinge with but little, if any, additional cost.

I claim as my invention—

As a new article of manufacture the strap or T-hinge, herein shown and described, in which the portion or portions which have to be removed from the hub of one sheet-metal leaf, in order to make room for the hub of its fellow, are bent out instead of cut away, and form a rigid arm, B, standing at about right angles to the leaf, substantially as and for the purpose set forth.

WM. H. HART.

Witnesses:

WILLIAM PARKER,
JAMES SHEPARD.