(No Model.)

R. BOONE.

HINGE.

No. 436,691. Patented Sept. 16, 1890.

Fig. 1.

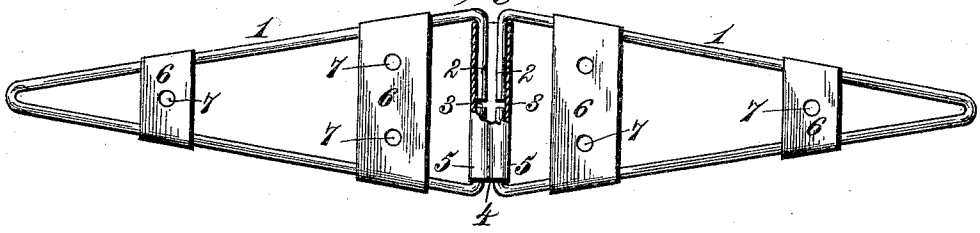


Fig. 2.

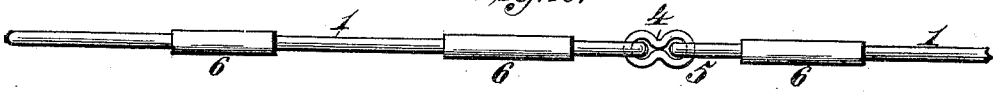


Fig. 3.

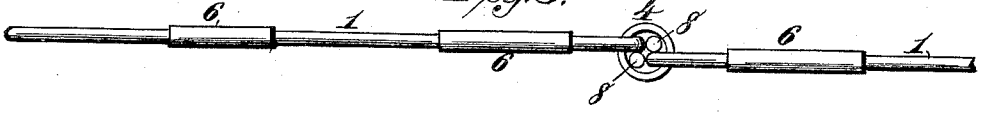


Fig. 4.

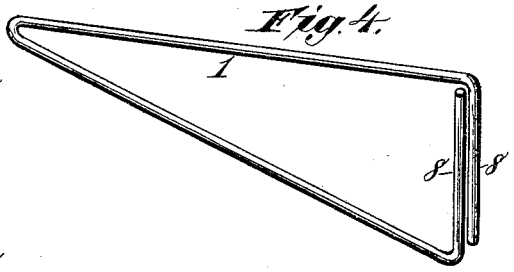


Fig. 5.

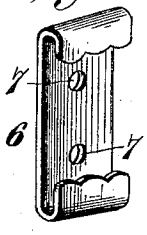
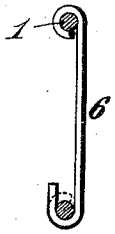


Fig. 6.



Witnesses.
Robt Ewett.
Percy B. Hills.

Inventor,
Robert Boone.
By James L. Norris,
Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ROBERT BOONE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO HORACE N. YOUNGMAN, OF SAME PLACE.

HINGE.

SPECIFICATION forming part of Letters Patent No. 436,691, dated September 16, 1890.

Application filed June 14, 1890. Serial No. 355,445. (No model.)

To all whom it may concern:

Be it known that I, ROBERT BOONE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Wire Hinges, of which the following is a specification.

It is the purpose of my invention to provide a cheap and simple hinge, suitable for boxes, crates, gates, barn-doors, and other purposes, or adapted for use in place of strap, T, and butt hinges.

To such end my invention consists of a hinge composed of two leaves, each formed of wire or other similar and suitable material, the bases being divided and inserted in a suitable central connection, and one or more clasps sliding upon the leaves for attachment to the structure to which the hinge is applied.

To enable others to understand and use my invention, I will describe the same in detail, reference being had to the accompanying drawings, in which—

Figure 1 is a sectional plan view showing my invention. Fig. 2 is a partial edge elevation of the parts shown in Fig. 1. Fig. 3 is a similar view showing a modified construction. Fig. 4 is a detail perspective showing a further modification. Fig. 5 is a detail perspective showing one of the clasps. Fig. 6 is a transverse section showing the manner of attaching the clasps.

In the said drawings, the reference-numeral 1 designates one leaf of the skeleton hinge, which is formed of any suitable wire and preferably of triangular form, the base 2 of said triangle being centrally divided at point 3. The divided parts of this base are sprung apart sufficiently to enable them to be inserted in a tubular connection 4, formed of metal or other suitable material. This tubular connection may either be duplex, consisting of two parallel and similar tubes 5, or it may be a single tube or tube-section 4, which may, if desired, be flattened upon two sides, giving the connection an oval form.

Upon each leaf is mounted one or more clasps 6, consisting of a plate having its ends bent over the arms or legs of the triangular leaf. After the divided base 2 has been sprung apart and its halves inserted in the tubular connection 4, this clasp is pushed up as far as it will go, thereby drawing the ends of the cleft base close together and holding them in that position, and at the same time imparting a strength and rigidity to the joint formed in the tubular connection, which is equal, or nearly so, to the integral union of the parts. I may employ one or more of these clasps, as shown in Figs. 1, 2, and 3, and in each one or more openings 7 may be made for a screw or other fastening. When the clasps are properly placed, they are either welded, soldered, or otherwise attached to the wires of the leaf. I may also form the base 2 of the triangular leaf of two parallel and overlapping parts 8, as shown in Fig. 4, each being of equal length; but the action of the parts in this case is the same as in the construction shown in Fig. 1.

I may divide the base 2 of the leaf at any point, if preferred, instead of dividing it centrally, as shown in Fig. 1.

What I claim is—

A hinge consisting of two leaves, each formed of wire or other similar and suitable material, the bases being centrally divided and inserted in a suitable central connection, and one or more clasps sliding upon said leaves and adapted to be attached to the structure to which the hinge is applied, substantially as described.

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

ROBERT BOONE.

Witnesses:
FRANK H. MASSEY,
J. R. MASSEY.