L. E. BOLTON.

Hinge.

No. 168,368. Patented Oct. 5, 1875.

Fig. 1.

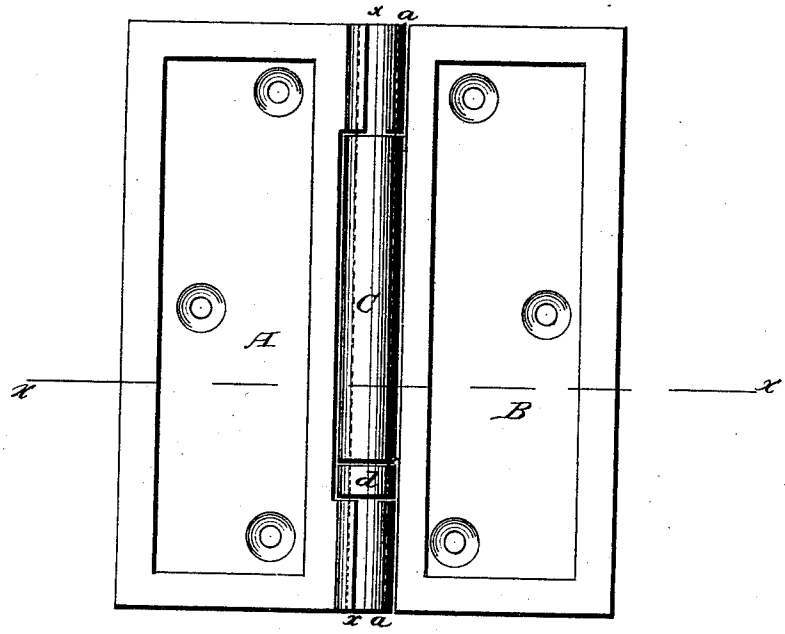
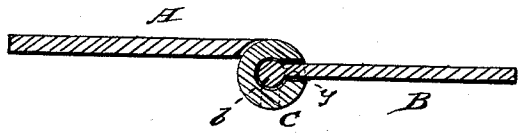


Fig. 2.



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UNITED STATES PATENT OFFICE.

LEWIS E. BOLTON, OF DES MOINES, IOWA.

IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. **168,368**, dated October 5, 1875; application filed June 23, 1875.

To all whom it may concern:

Be it known that I, LEWIS E. BOLTON, of Des Moines, in the county of Polk and State of Iowa, have invented certain new and useful Improvements in Hinges; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in hinges; and consists in a reversible right-and-left hinge, formed of a leaf having slotted tubular end projections, a leaf with suitable web, a pin or pintle, a slotted sleeve, and a detachable collar, as will be hereinafter more fully described, and pointed out by the claim.

In the accompanying drawing, Figure 1 is a view of my hinge opened; and Fig. 2 is a section of the same through the line *x x*, Fig. 1.

A and B represent the two leaves of my hinge. The leaf A, which goes on the door-jamb, or other stationary object, is formed at each end on the inner edge with a tubular projection, *a*, which has a vertical slot, *x*, formed in it, the slots of the two projections being on a line with each other. The leaf B, which goes on the door or movable object, is provided along its inner edge, and parallel therewith, with a pin, *b*, of the same length as the hinge, and which is connected to the leaf by a web, *y*, of such length as to leave at each end just room enough for the tubular projections of the leaf A, and of a loose collar, hereinafter described.

The space between the two tubular projections *a a* is filled by a sleeve, *c*, and a collar, *d*, the sleeve being slotted longitudinally for the passage of the web *y* of the leaf B. The pin *b* of the leaf B is passed from the top downward through the projection *a* at the top of the leaf A, and through the sleeve *c*, the web *y* passing through the slots in said projection and sleeve. The collar *d* is then placed between the lower end of the sleeve *c* and the lower projection *a*, and the pin *b* passing through them, the web *y* resting on the collar.

To reverse the hinge the collar must be changed, so as to be always at the lower end of the sleeve.

When the hinge is made of wrought-iron the tubular projections are partly formed in one piece with the leaf and partly formed by plates attached thereto, and the pin or spindle is formed by rolling.

I am aware of the United States Patent No. 97,907, and lay no claim to anything shown therein; but,

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The within-described reversible right-and-left hinge, formed of the leaf A, having slotted tubular end projections *a a*, the leaf B, having pin *b* and web *y*, the slotted sleeve *c*, and collar *d*, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

LEWIS E. BOLTON.

Witnesses:

F. D. BOOTH,

J. PARKER.