

D. W. LONG.

Improvement in Hinges.

No. 130,729.

Patented Aug. 20, 1872.

Fig. 1.

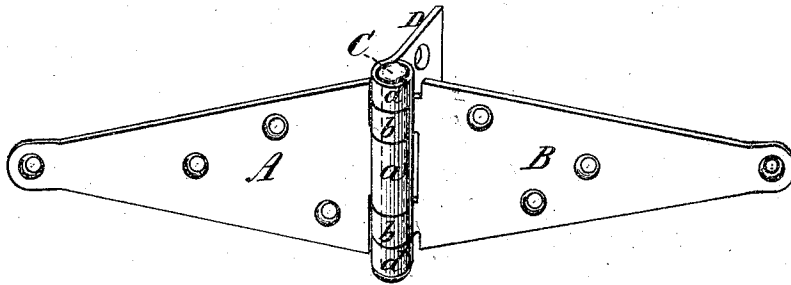


Fig. 2.

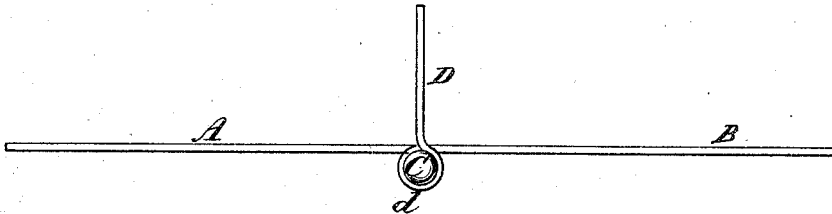
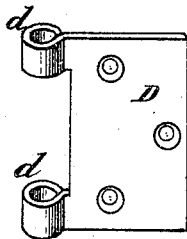


Fig. 3.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

DAVID W. LONG, OF PARKERSBURG, WEST VIRGINIA.

## IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. 130,729, dated August 20, 1872.

Specification describing a certain Improvement in Hinges, invented by DAVID W. LONG, residing at Parkersburg, in the county of Wood and State of West Virginia.

The nature of my invention consists in combining with the ordinary leaves of a hinge an extra leaf, which is attached to the pintle, and intended to be screwed upon the side of the jamb or post facing the edge of the door or gate when closed; the object being to transfer a portion of the strain upon the neck connecting the strap and knuckle of the leaf fastened to such jamb or post to such extra leaf, lessening the liability of rupture of the former at the point mentioned.

Figure 1 is a perspective view of my improved hinge. Fig. 2 is a plan or edge view of the same. Fig. 3 is a perspective view of the additional leaf detached.

The same letters of reference are employed in all the figures in the designation of identical parts.

I have illustrated my improvement in connection with a strap-hinge, the leaf A of which is intended to be screwed to the door-jamb or gate-post, and the leaf B to the door or gate. The knuckle *a* of the leaf A is embraced by the knuckles *b b* of the leaf B in the usual manner, and an ordinary pintle, C, passing through the knuckles, completes the joint. It is quite common in hinges of this kind to become broken at the neck which connects the

knuckle *a* to its leaf, by reason of the strain of the door or gate upon it; to obviate or at least lessen which liability I provide the short additional leaf D, which is attached, by its knuckles *d d*, to the pintle C, and will be screwed against the side of the jamb or post. Thus the wrenching strain of the door upon the hinge will be borne in part by this additional leaf. An incidental advantage of the employment of this extra leaf consists in the fact that it will prevent the screws or nails used in securing the leaf A from working loose.

I am aware that a third leaf is not of itself new, and such, of itself, I do not claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

The leaves A and B, combined with the additional leaf D, which latter is to be secured to the post at right angles to the plane of the door when closed, the knuckles and the pintle both falling without the plane of the leaves A B when they are both in a right line, this arrangement being such as to allow the door to move through half a circle, all as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID W. LONG.

Witnesses:

R. H. STOUTENBOROUGH,  
J. H. SIMPSON.