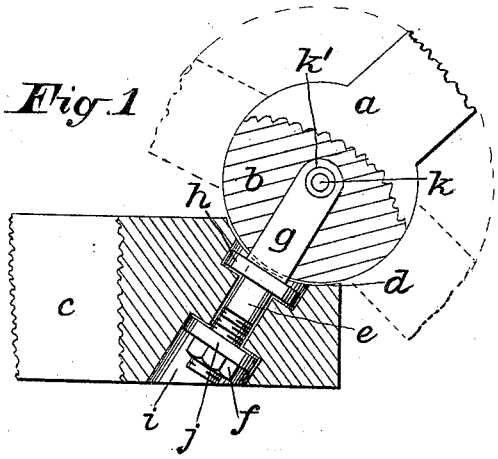
(No Model.)

R. H. GARLAND.

BOLT HINGE.

No. 302,905. Patented Aug. 5, 1884.

Fig. 1



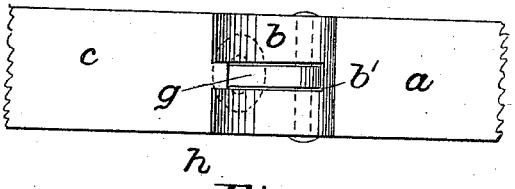


Fig. 2

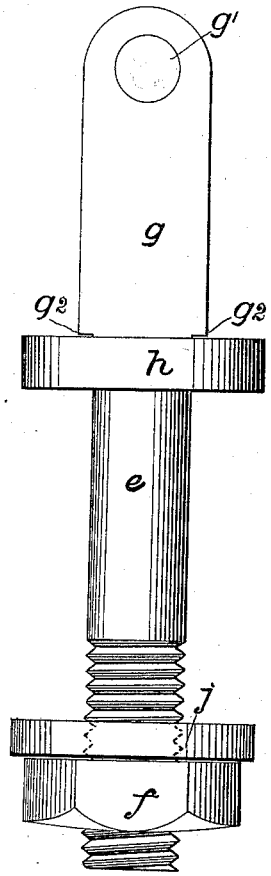


Fig. 3

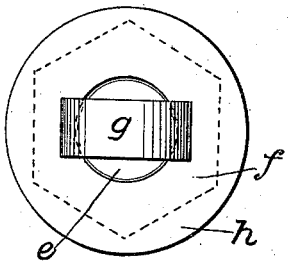


Fig. 4

Witnesses;
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UNITED STATES PATENT OFFICE.

RICHARD H. GARLAND, OF CHICAGO, ILLINOIS.

BOLT-HINGE.

SPECIFICATION forming part of Letters Patent No. 302,905, dated August 5, 1884.

Application filed December 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, RICHARD H. GARLAND, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Bolt-Hinge, of which the following is a specification.

My improvement relates to a peculiarly-constructed hinge, wherein I combine a screw-threaded bolt with wood, iron, or other material fashioned as hereinafter described.

Figure 1 is a vertical section of my invention, centrally broken away to show how the bolt is arranged; Fig. 2, a top view or plan of same; Fig. 3, a vertical view of bolt used; Fig. 4, a plan of Fig. 3.

Similar letters refer to similar parts throughout the entire views.

a represents a section of wood or other material, rounded at one end, so as to form a knob, *b*.

c represents a section of the same material as *a*, with a socket, *d*, cut in one side thereof, which occupies a portion of the arc of a circle. The socket *d* may be placed at any part of the material *c*—end, corner, upper or lower side—it depending on the use to which the hinge is put. In the present illustration it is shown as occupying an upper corner. When the parts *a* and *c* are brought together, the knob *b* will rest snugly in the socket *d*.

e represents an eyebolt screw-threaded at one end to receive a hexagon nut, *f*, and flattened at the other end to form a tongue, *g*, with an eye, *g'*. The tongue *g* is constructed with a shoulder, g^2, which rests, when in position, against a washer, *h*.

Previous to uniting the parts *a* and *c* I drill a hole, *i*, centrally in the socket *d*, and then introduce the screw end of the bolt *e* therein through the washers *h* and *j*, which are embedded in the hole. The bolt *e* catches into the nut *f* below the washer *j*, and is turned down with an ordinary wrench until the shoulder g^2 rests against the washer *h* and the nut *f* against the washer *j*. The flat part of the tongue will stand parallel with the width of the part *c*. The knob *b* has a slot, *b'*, cut longitudinally, half or little more than half the distance from outside surface toward the center of said part, which slot corresponds in width with the tongue *g*, or it may be a trifle wider, and fits over the said tongue when the parts *a* and *c* are brought together. A pintle, *k*, is then introduced through the knob *b* into the eye *g'* of the bolt *e*, passing through said knob to the other side, and is there secured by riveting. The hinge is then perfected. In some articles where I employ wood to form my hinge, and there is much play on the pintle, causing it to wear in the wood, I then introduce a hollow tubing, *k'*, which embraces said pintle on either side of the tongue *g*, and swage the pintle at either end, to prevent its withdrawal.

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

The combination, in a hinge, of the parts *a* and *c*, arranged as described, with an eyebolt, *e*, secured to said parts, as set forth, all constructed as and for the purpose specified.

RICHARD H. GARLAND.

Witnesses
I. T. CONGER,
H. LOUIS CLARK.