

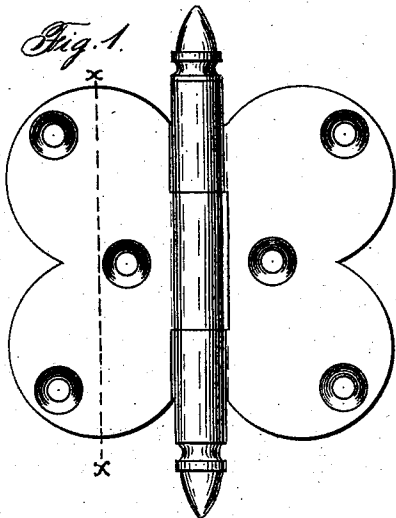
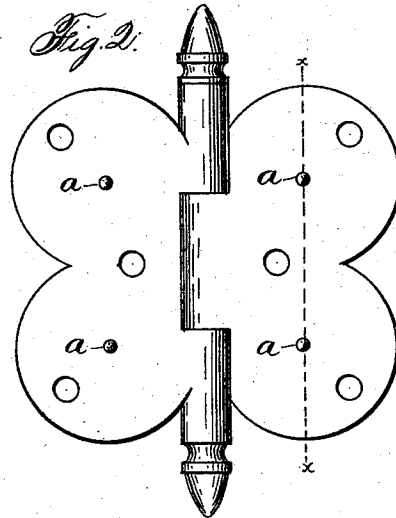
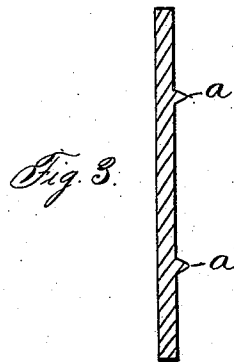
(No Model.)

A. N. & G. A. PARNALL.

HINGE.

No. 290,464.

Patented Dec. 18, 1883.



Witnesses:
John Edwards Jr.
Eddy M. Smith.

Inventors:
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Atty.

UNITED STATES PATENT OFFICE.

ALF N. PARNALL AND GEORGE A. PARNALL, OF DENVER, COLO., ASSIGNORS
OF ONE-HALF TO FRED GOODRICH, OF NEW BRITAIN, CONN.

HINGE.

SPECIFICATION forming part of Letters Patent No. 290,464, dated December 18, 1883.

Application filed November 2, 1883. (No model.)

To all whom it may concern:

Be it known that we, ALF N. PARNALL and GEORGE A. PARNALL, both of Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Hinges, of which the following is a specification.

Our invention relates to improvements in that class of hinges which have their contour composed of segments of circles, so that the recess in the wood for receiving the hinge-leaves may be formed entirely by boring-bits.

The object of our invention is to furnish simple and convenient means for centering or marking off the centers for boring. We attain this object by the simple construction illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of our improved hinge. Fig. 2 is a rear elevation of the same, and Fig. 3 is a vertical section of the same on line *x x* of Figs. 1 and 2.

In this class of hinges, when the screw-holes are located or disposed in the best manner, they are outside of the center of the circles whose arcs form the contour of the leaves, as shown in Figs. 1 and 2.

Upon the back of the hinge-leaves, and in the center of the circles upon whose arcs the hinge-leaves are formed, we affix small points *a a*, the same being preferably made integral therewith, so that they may be forged or cast thereon, as the cheapest mode; but they may, if desired, be otherwise formed and affixed to the hinge-leaves.

In order to fit the hinge for letting into its

recess, it is only necessary to place it in proper position over the casing or jamb where it is to be secured, and then press gently upon the same to force the points *a a* into the wood, and thereby mark the centers for boring to let the hinge-leaves into the wood. The entire hinge-leaf is let into the wood without any cutting, except that which is done by the boring-bit, and the points upon the back of the hinge enable these centers to be marked very readily.

The hinge-joint may be of any ordinary construction, and the hinge-leaves may be formed in the arc of one or more circles, as may be desired.

We are aware that a prior patent, No. 174,639, March 14, 1876, shows a hinge having the outer portions of its leaves formed in segments of one, two, or three circles, whereby the hinge can be let into the wood by only such cutting as is done by a cutting-bit, and we hereby disclaim the same.

We claim as our invention—

A hinge having the outer portion of its leaves formed in arcs of circles, and provided with points *a* upon the back of the leaves, in the center of the respective circles whose arcs form the edge of said leaves, substantially as described, and for the purpose specified.

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