(No Model.)

J. J. FARRAR.

HINGE.

No. 603,897. Patented May 10, 1898.

Fig. 1.

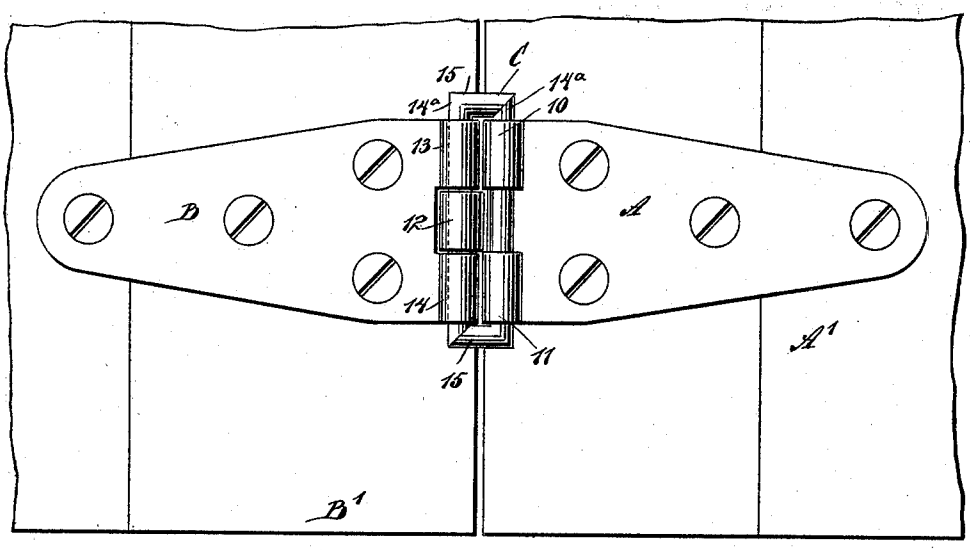


Fig. 2.

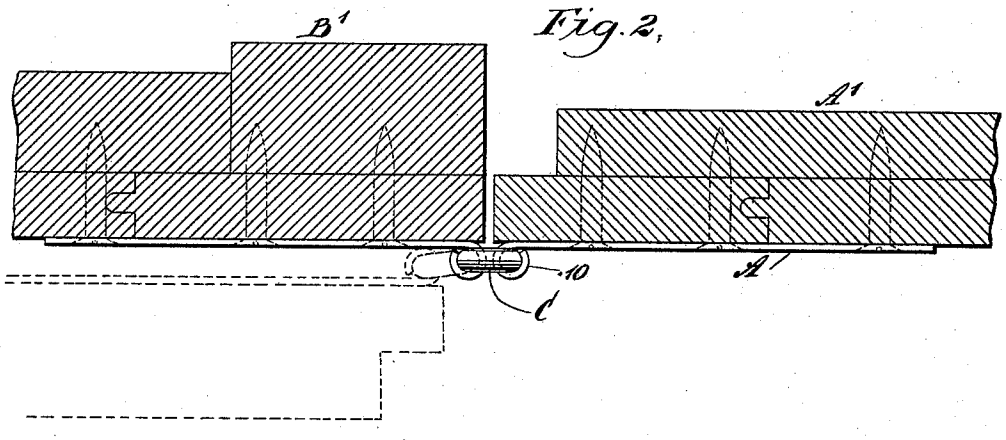
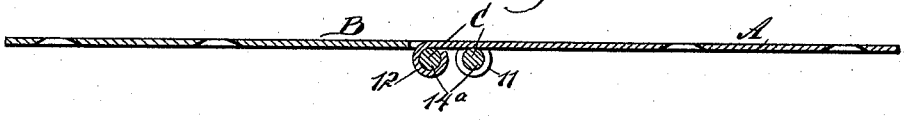


Fig. 3.



WITNESSES:

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INVENTOR

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BY

ATTORNEYS.

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

UNITED STATES PATENT OFFICE.

JOHN J. FARRAR, OF RAPID CITY, SOUTH DAKOTA, ASSIGNOR OF ONE-HALF TO GEORGE C. HUNT, OF SAME PLACE.

HINGE.

SPECIFICATION forming part of Letters Patent No. 603,897, dated May 10, 1898.

Application filed August 28, 1897. Serial No. 649,878. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. FARRAR, of Rapid City, in the county of Pennington and State of South Dakota, have invented a new and useful Improvement in Hinges, of which the following is a full, clear, and exact description.

The object of the invention is to provide a hinge so constructed that each member of the hinge will have two or more knuckles and each set of knuckles have practically an independent pintle and wherein the two pintles will be connected and will be virtually one, whereby I am enabled to construct the hinge as durably and as simply as the ordinary hinge and yet provide additional strength for the hinge at its pivoted portion.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of the improved hinge applied. Fig. 2 is a plan view of the improved hinge, the parts to which the hinge-sections are attached being in horizontal section; and Fig. 3 is a horizontal section taken longitudinally through the hinge on the line 3 3 of Fig. 1.

A represents one member or wing of a strap-hinge, adapted to be attached to a door A′, and B the second member or wing, adapted for attachment to a post B′; but I desire it to be understood that the improvement may be applied to other hinges than strap-hinges.

The member or wing A is provided with three knuckles—an upper knuckle 10, a lower knuckle 11, and a third and intermediate knuckle 12, which extends beyond the upper and lower knuckles 10 and 11. The opposing wing or member B of the hinge is provided with an upper knuckle 13 and a lower knuckle 14, so arranged that when the members or wings of the hinge are assembled the upper and lower knuckles 13 and 14 will be in transverse alinement with the central knuckle 12, projected from the wing or member A, as shown in Fig. 1.

The pintle C is in the form of a link, comprising side members 14^a and end members 15, connecting the side members. One side member of the pintle is passed through the upper and lower knuckles 10 and 11 of the wing A, while the opposite side member of the pintle is passed through the upper and lower knuckles 13 and 14 of the wing B and the central projecting knuckle 12 of the opposing wing A. Under such a construction it will be observed that each of the wings has virtually an independent pintle, yet both of the wings are so connected by the same pintle that they will work together in the usual manner, the wings having greater strength at their pivot-points than heretofore, without adding to the bulk of the hinge. The swing of the hinge is made upon the side member of the pintle passed through the two knuckles of the wing B and central knuckle of the wing A. Consequently the center of the hinge is thrown back, and by making the knuckles around the pintle perfectly round the hinge can fold back as closely as in the old style.

The old style of hinge has but a single knuckle upon the wing A, whereas in the improved hinge this wing is provided with two knuckles independent of the ordinary single knuckle. Such construction adds materially to the strength of the hinge, making each wing equally durable. A hinge constructed as above set forth can be made of lighter material and yet be as strong, if not stronger, than an ordinary hinge.

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

1. A hinge, comprising wings, each provided with a plurality of knuckles, one of the knuckles of one of the wings being out of alinement with the other knuckles thereof and extending between the knuckles of the other wing, and two connected pintles extending through alining knuckles, substantially as described.

2. A hinge, comprising two wings, one of

said wings being provided with two knuckles spaced apart, and the other wing with three knuckles, the central one of which projects beyond the end of the wing and in front of the other knuckles thereof, said central knuckle extending between the knuckles of the other wing, and a link-pintle, the side members of which pass through alining knuckles, substantially as described.

JOHN J. FARRAR.

Witnesses:
GEO. C. HUNT,
PAUL S. WOODS.