(No Model.)

A. W. CARL.

DETACHABLE FURNITURE JOINT.

No. 430,111. Patented June 17, 1890.

Fig. 1.

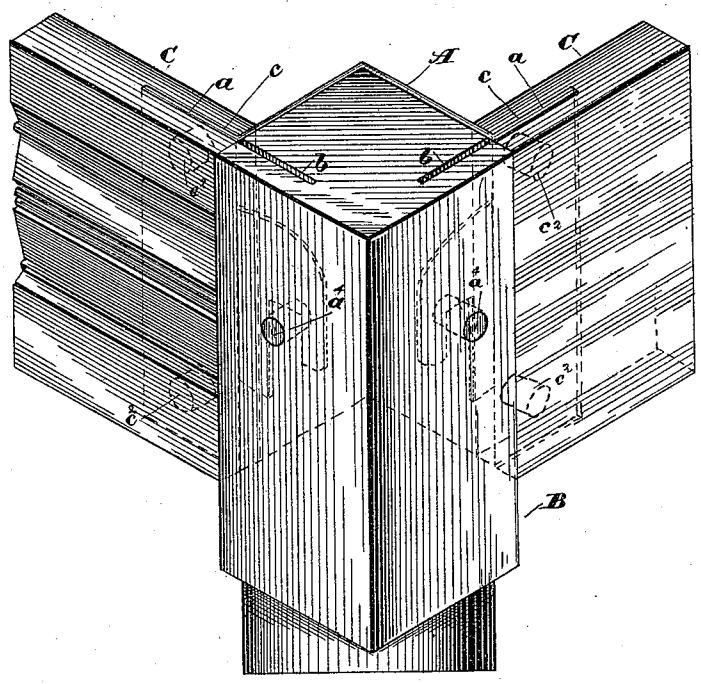


Fig. 2.

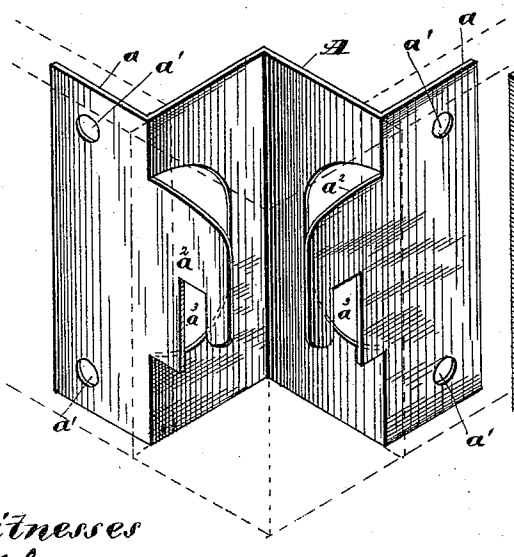
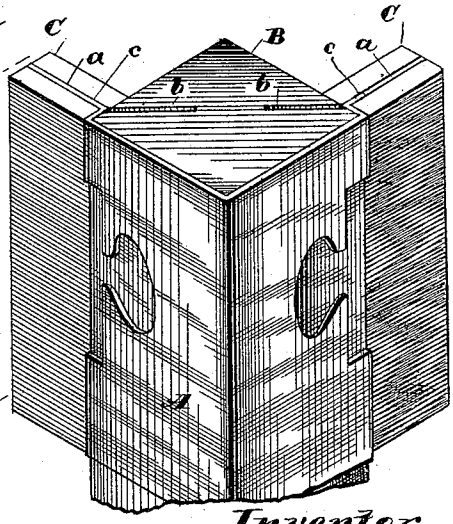


Fig. 3.



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DETACHABLE FURNITURE-JOINT.

SPECIFICATION forming part of Letters Patent No. 430,111, dated June 17, 1890.

Application filed November 5, 1889. Serial No. 329,279. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR W. CARL, a citizen of the United States, and a resident of New London, county of Huron, and State of Ohio, have invented certain new and useful Improvements in Detachable Furniture-Joints; and I hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in the manner of fastening rails to posts in constructing furniture and other objects, and its objects are to provide a rigid, strong, and efficient joint of good appearance, cheap and simple in construction, and durable in use, which can be readily put together or taken apart at a moment's notice.

My invention is especially adapted for use in attaching rails to corner-posts when the rails are used in pairs; and it consists in the employment of a band or plate of metal adapted to encircle a portion of the post and attached to the ends of the rails and posts by means of extensions of the plate, and also in the manner of securing the parts together and in their combination and arrangement, as shown in the accompanying drawings, described in the following specification, and more particularly pointed out in the claims.

In the drawings, Figure 1 is an isometric view of a corner-post and rails secured by my improved fastening. Fig. 2 is a similar view of the metal fastening, the surrounding parts being shown in dotted lines. Fig. 3 is a modified form of the same.

A in the figures represents the metallic plate, formed of any tough metal, as brass, iron, or steel, and is shown as conforming in shape to the post B, which it encircles. The extremities of the plate A, as a, are turned outward to the angle at which the rails C join the post B and enter slots, as c, in the rail ends. Holes, as a', are shown in Fig. 2, through which pins c^2 (shown dotted) may be passed, which rigidly secure the plate and rails together. The post B is also provided with slots, as b, adjacent to the abutting ends of the rails C, into which enter extensions, as a^2, of the plate A. These extensions a^2 are provided with vertical slots, as a^3, instead of pin-holes, for the insertion of pins, as a^4, and open at the lower end for detachably securing the plate A. In putting the parts together, the plate A being secured by pins in the slots in the rail ends C, the projecting slotted extensions a^2 are then lowered into the slots b to the desired depth and the pins a^4 inserted in the post B, when the parts will be rigidly secured and braced together, but can readily be detached by lifting up the rails and plate.

In Figs. 1 and 2 the metallic plate is shown as encircling the post on the inner side, giving no evidence to sight of the construction of the joint. Fig. 3 shows a modified form in which the plate incloses the exterior face of the post and is polished or otherwise ornamented. In these figures the piece is made of a single plate of sheet metal, the extensions a^2 being struck out of the body of the plate and slotted to receive the pin.

Other modifications may be made of the device in form and materials and slight changes may be made in construction and arrangement. Such are not of the nature of the invention; nor do I confine myself to any one of the large number of uses to which my invention may be applied.

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

1. In a furniture-joint, a corner-post and abutting side rails, in combination with a metallic plate conformably fitting the intervening space on the post between the ends of the rails and having its extremities secured in slots in the rails, and means for detachably securing the plate to the post, consisting of slotted re-entering projections of the plate and corresponding slots and pins in the post, substantially as and for the purpose set forth.

2. In a furniture-joint, a corner-post and abutting side rails, a metallic plate, as A, having its extremities, as a, inserted in slots in the end rails and secured by transverse pins, in combination with slots and transverse pins in the post, and extensions of the plate, as a^2, entering said slots, as b, and provided with vertical slots, as a^3, for the transverse pins, as a^4, substantially as and for the purpose set forth.

3. In a furniture-joint, a corner-post and

adjacent side rails, in combination with a metallic plate connecting the rails conformably fitting the surface of the post, said plate being rigidly secured in slots in the ends of the rails at either end and provided with extensions struck from its body which penetrate slots in the post, said extensions being provided with vertical slots, as a^3, as and for the purpose set forth.

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