

C. SINGER.
FURNITURE CONSTRUCTION.
APPLICATION FILED JAN. 3, 1903.

NO MODEL.

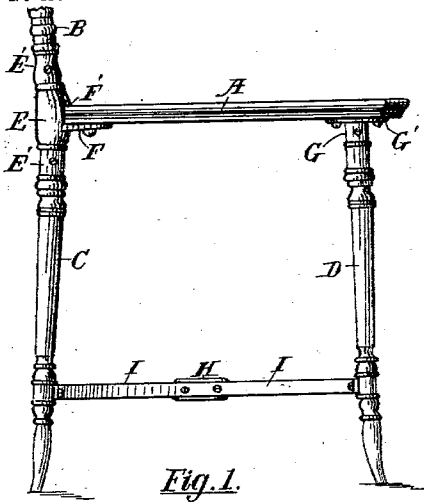


Fig. 1.

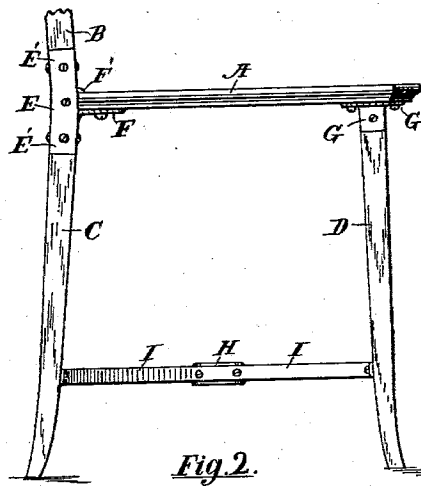


Fig. 2.

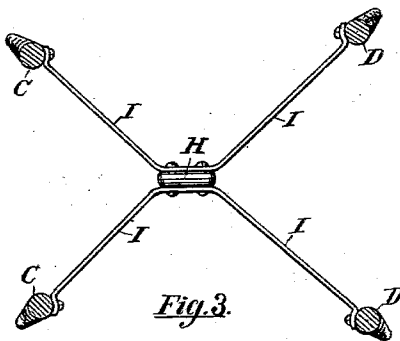


Fig. 3.

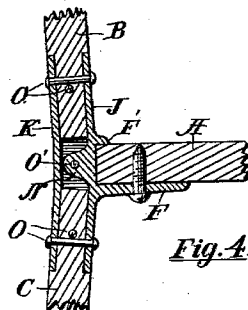


Fig. 4.

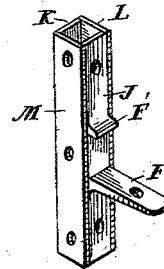


Fig. 8.

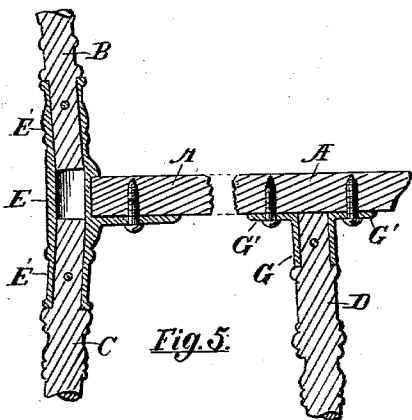


Fig. 5.

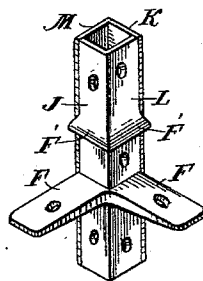


Fig. 6.

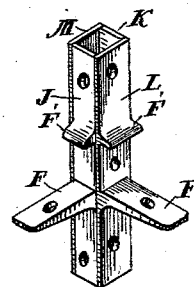


Fig. 7.

Witnesses

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FURNITURE CONSTRUCTION.

SPECIFICATION forming part of Letters Patent No. 740,192, dated September 29, 1903.

Application filed January 3, 1903. Serial No. 137,741. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SINGER, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Furniture Construction; and I do 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 furniture construction, and more particularly to the construction of chairs and like articles; and its object is to provide strong and durable fastenings to connect the various parts forming the seat, legs, and back of a chair or the corresponding parts in other articles, to economize the material, and to provide the device with certain new and useful features hereinafter more fully described, and particularly pointed out in the claims.

My invention consists, essentially, of the described means for securing the said parts of an article of furniture to each other, consisting of sockets, preferably of metal, and provided with flanges to attach the sockets to the seat or corresponding part, said sockets also adapted to receive and securely hold the ends of the legs and back posts or other corresponding parts, as will more fully appear by reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a chair with a portion of the back omitted and showing a construction having turned legs and back posts; Fig. 2, a modification of the same in which the legs and back posts are of flat or rectangular construction; Fig. 3, a detail in plan view of the leg-braces; Fig. 4, an enlarged detail, in vertical section, of the fastening parts connecting the back posts, rear legs, and seat as shown in Fig. 2; Fig. 5, the same, together with the front-leg fastening as shown in Fig. 1. Figs. 6, 7, and 8 are perspective details of modifications of the structure shown in Fig. 4.

Like letters refer to like parts in all of the figures.

A represents the seat of the chair or other

analogous article of furniture; B, the back posts of the same; C, the rear legs, and D the front legs of the same.

The rear legs and the back posts are made in separate parts instead of continuous, as usual, whereby shorter pieces of timber may be used and more economical construction is secured. The back, rear leg, and seat are securely attached by means of a suitable socket E, preferably of metal and made hollow or tubular and having openings at its respective upper and lower ends E' to receive and securely hold the respective ends of the back post B and rear leg C.

Projecting forward underneath the seat and secured thereto is a flange F, integral with the socket E, and above the seat and engaging the same is a lesser flange F', whereby the seat is securely attached to the socket E.

The forward leg D in each construction shown is secured to the under side of the seat by means of a metal socket G, in which the leg is inserted and secured, said socket being provided with a flange G' and securely attached by suitable screws to the under side of the seat. The lower portion of the legs is braced and held by means of two metal bars I, which bars are secured at the middle to a suitable block of wood H, located under the middle of the seat. Said bars extend from this block radially to each of the respective legs and are securely attached thereto at the ends.

The described construction is simple and cheap, and at the same time provides a very strong and durable structure not easily broken or got out of order. In the construction shown in Fig. 1, in which the legs and back are of turned or cylindrical form, the metal parts E and G would be preferably integral or tubular in form. In the construction shown in Fig. 2 these parts might also be integral and rectangular in cross-section; but I prefer the construction shown in which these parts are divided longitudinally, as indicated in Figs. 4, 6, 7, and 8, in which J represents the front side of the socket or fastening, K the rear side of the same, L the inner side of the same, and M the outer side, the entire socket being rectangular in cross-section.

tion and attached to the various parts by means of suitable rivets passing therethrough. Said socket is shown divided into two parts in Fig. 6, the sides J and L being integral 5 and provided with flanges F and F' to engage the seat and the sides K and M being also integral and adapted to complete the structure. A lug N projects from said plate between the ends of the leg and back, through 10 which a bolt or rivet O' extends and also through the sides L and M, whereby they are secured together. Other rivets or bolts O extend through the various plates and through the leg and back post, whereby the whole is 15 securely held in place.

In Fig. 7 each of the four sides are shown as made of separate plates, the two sides J and L being provided with flanges F and F'. In Fig. 8 the same construction is shown with 20 the plate J only having the said flanges. In this latter construction the sides K, L, and M may be of wood, if preferred. The advantage of dividing the sockets longitudinally is that they may be cast without the use of cores and 25 can be drawn together by tightening the rivets or bolts therethrough in the event of shrinkage of the woodwork inserted therein. I prefer the form shown in Fig. 6 as being the strongest for this purpose.

30 To illustrate my invention, I have shown a chair construction; but it is obviously useful in a great variety of structures having a horizontal portion corresponding to the seat and legs or supports for the same, together with 35 an upwardly-extended portion above one or both pairs of legs—such, for instance, as a bedstead. I do not, therefore, limit myself to the particular chair construction shown.

Having thus fully described my invention, 40 what I claim, and desire to secure by Letters Patent, is—

1. In an article of furniture, in combination with the seat, legs and back posts, longitudinally-divided sockets, flanges on the sockets 45 to secure the same to the seat, and rivets or

bolts extending through the sockets, and through the ends of the legs and back posts.

2. In an article of furniture, in combination with the seat, legs and back posts, a longitudinally-divided socket, a flange on the socket 50 to attach the same to the seat, a lug on the socket projecting between the leg and back post and having an opening, a rivet or bolt in the opening in the lug and through the divided parts of the socket, and rivets or bolts 55 through the socket and ends of the leg and back post.

3. As an article of manufacture, a longitudinally-divided socket, having a laterally-projecting flange to attach to a seat, and oppositely-projecting ends adapted to receive and retain the ends of a leg and a back post, and openings to receive transverse rivets or bolts.

4. As an article of manufacture, a socket 65 divided longitudinally, a flange and a lug on one part of the socket, and transverse openings in the socket and lug to receive bolts and rivets.

5. As an article of manufacture, a rectangular socket consisting of four separate plates, a flange and lug on one of the plates, and transverse openings in the lug and plates to receive rivets or bolts.

6. The described construction of chair or 75 other analogous article of furniture, consisting of a seat, separate legs and separate back posts, and metallic sockets having flanges attached to the seat, the several legs and back posts being inserted in said sockets and secured therein, and braces attached to a block 80 beneath the middle of the seat and extending radially therefrom, and secured at their respective ends to the respective legs.

In testimony whereof I affix my signature 85 in presence of two witnesses.

CHARLES SINGER.

Witnesses:

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