E. F. McCARTHY.

CHAIR.

APPLICATION FILED SEPT. 28, 1912.

1,150,783. Patented Aug. 17, 1915.

Fig. 1.

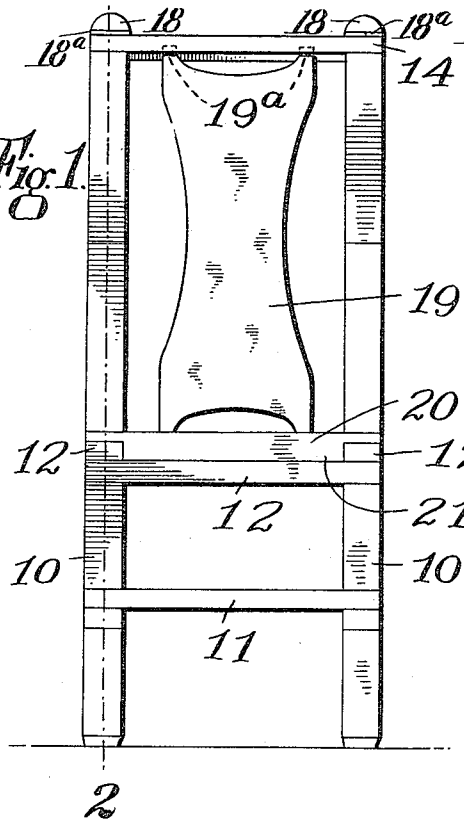
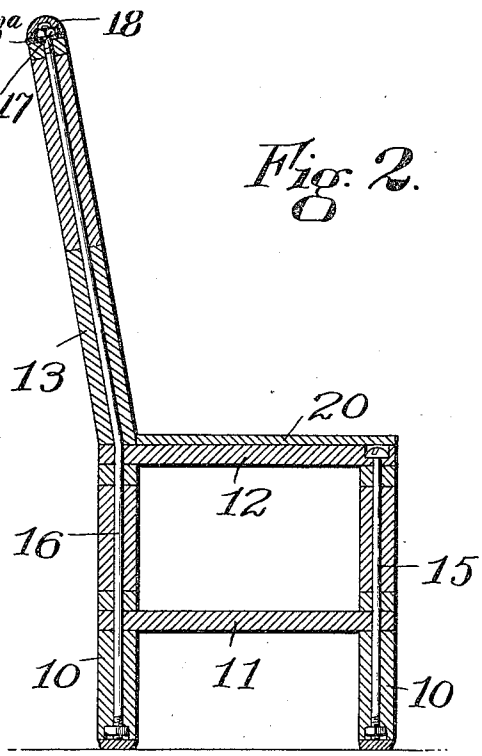


Fig. 2.



Witnesses
C. A. Hartnett
M. E. Regan.

Inventor
Ernest F. McCarthy
By Attorneys.
Southgate & Southgate.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ERNEST F. McCARTHY, OF WORCESTER, MASSACHUSETTS.

CHAIR.

1,150,783. Specification of Letters Patent. Patented Aug. 17, 1915.

Application filed September 28, 1912. Serial No. 723,652.

To all whom it may concern:

Be it known that I, ERNEST F. McCARTHY, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Chair, of which the following is a specification.

The principal objects of the invention are to provide an exceedingly strong construction for the corner members of chairs which not only affords great strength when the article is in use, but which can be loosened with extreme ease and facility for the purpose of permitting the articles to be "knocked down" or otherwise adjusted for packing or any other purpose.

Further objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a front view of a chair constructed in accordance with this invention. Fig. 2 is a section of the same on the line 2—2 of Fig. 1.

The chair is shown as made up of parts corresponding to the usual parts of a chair, but the back and rear legs are connected with each other in such a way as to clamp the back firmly against the top of the seat frame and securely hold the seat frame between the back and legs, thus adding greatly to the strength and rigidity of this part of the structure without increasing its bulk, and in fact with a corresponding decrease in the size of the parts. For this purpose each leg is made of a plurality of vertical pieces 10 connected by horizontal cross pieces 11. The seat frame is formed of horizontal pieces 12 located at the tops of the legs and forming a square or similar shaped figure. The back of the chair is also made up of a plurality of pieces 13 connected together end to end on each side of the back and constituting the back posts. These back posts are connected together across their top ends with a top piece 14. These parts are connected by drilling centrally down through the same, the drilling operation, of course, being performed before the parts are ready to assemble. Then fastening rods 15 and 16 are introduced down through the passages and secured by nuts at the bottom counter-sunk preferably into the bottoms of the legs. A nut 17 is shown also at the top of each rod 16, embedded in a wooden block 18 and secured to it by a plate 18^a. In this way the ornamental block 18 can be turned to loosen or tighten the nut. Thus the strength of a metallic rod extending longitudinally through the supporting members is secured and in addition thereto the horizontal parts are secured firmly to the vertical parts without the useof glue, screws, or other ordinary fastening devices. This forms an exceedingly strong connection for the horizontal and vertical parts, and in addition thereto materially strengthens the vertical ones. In addition to tightening by these nuts so that the article is firmly held in position, the same can be held rigidly in its square form by the application of the seat 20. This seat is shown in the present instance as having a bottom projection 21 which fits between the side members 12 and also between the front and rear horizontal members 12 and assists in holding the posts in proper position. It also covers up the heads of the fastening rods through the front legs. A back board 19 is shown which is connected with the frame of the back simply by the use of projections 19^a extending into depressions in the frame. When the parts of the frame are drawn up together and fastened this back board is securely fixed in position thereby without the use of glue or other fastening device. When it is desired to ship an article of furniture in this way, it will be obvious that the only thing necessary is to loosen the nuts and collapse the furniture so as to bring it into a substantially flat condition, the seat of course being removed. It will be seen, therefore, that the back posts are clamped firmly down on the seat frame and the latter is clamped down on the tops of the rear legs by the single rod 16 at each side of the back. Each of these rods extends from the top of the back to the bottom of the rear leg and in this way a secure construction is provided, and any strain on the back, tending to bend it backward, is resisted by the rod itself which naturally affords the necessary resistance because it extends down through the leg which must bear most of the weight of a person sitting in the chair, and thus tending to bend the back.

Although I have illustrated and described only one application of the invention it will be obvious that it is broadly applicable to other types of like articles, and therefore I

do not wish to be limited thereto or to the details of construction shown in the drawings, but

What I do claim is:—

As an article of manufacture, a chair having rear legs, a back comprising substantially upright members constituting continuations of said rear legs, front legs, said front and rear legs and back members being made up mainly of upright pieces centrally and longitudinally perforated, horizontal pieces having perforated ends connecting the legs together to form a plurality of horizontal frames, the uppermost frame at its rear corners being positioned between said rear legs and upright members of the back, a removable seat adapted to cover the upper horizontal frame and provided with means to prevent said frames from folding, single continuous fastening rods extending through the perforations from the top of the back to the bottom of the rear legs, single continuous fastening rods extending from the top of the upper horizontal frame to the bottom of the front legs, and adjustable means on all of said continuous rods for clamping the back members rigidly to the top of the upper horizontal frame and said horizontal frames rigidly to said front legs to prevent their rotation on said bolts, said adjustable means when loosened with the seat removed allowing the rotation of the members on the bolts to assume a folded position with the front and rear members lying in close parallel relation.

In testimony whereof I have hereunto set my hand, in the presence of two subscribing witnesses.

ERNEST F. McCARTHY.

Witnesses:

ALBERT E. FAY,

C. FORREST WESSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."