April 6, 1948. H. V. THADEN 2,439,322

CHAIR

Filed Feb. 25, 1946

Fig. 1.

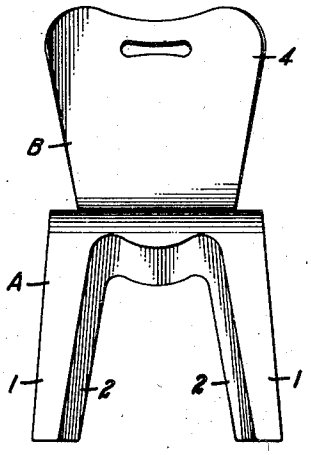


Fig. 2.

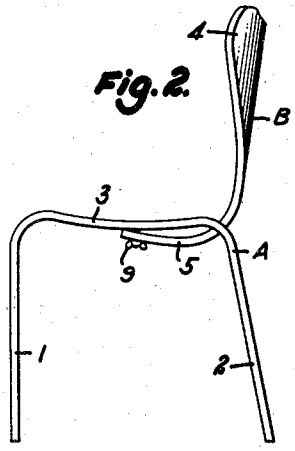


Fig. 3.

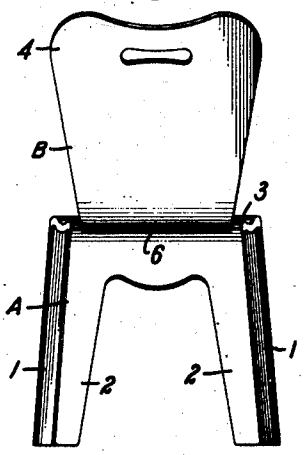


Fig. 4.

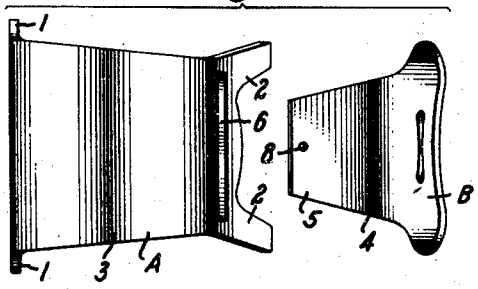
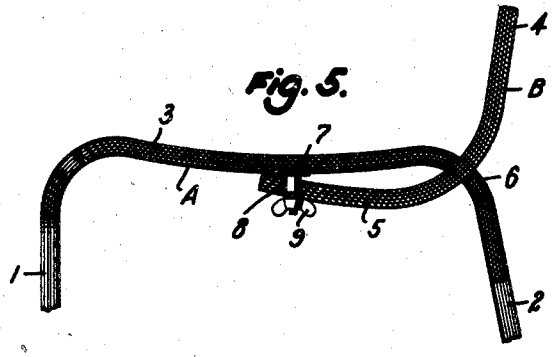


Fig. 5.



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2,439,322

CHAIR

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2 Claims. (Cl. 155—193)

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This invention relates to a chair construction. An object of the invention is to provide a chair construction which is adapted to be made of molded plywood.

A further object of my invention is to provide a chair construction which is not only adapted to be made by a plywood molding process but is also adapted to be packed and shipped in a relatively small space and to be readily assembled at the place of sale or use.

A further object of the invention is to provide a chair construction which is durable, comfortable, inexpensive and strong.

In accordance with the invention the chair is made in two parts, one part constituting the seat and legs of the chair and the other part constituting the back of the chair, each part being of such a shape that a plurality of units thereof may be nested for shipment or storage, and the two parts being designed for quick, easy and secure assembly to form a complete chair.

The plywood molding process is well known and need not be described in detail. It is sufficient to say that a plurality of layers of wood veneer are coated with an adhesive and assembled in a suitable support or mold and pressed and heated to harden the adhesive and bond the veneers or plies together. The molding may be carried out in an apparatus and by a process such as that described in my Patent No. 2,383,227 or in any other suitable apparatus.

The chair structure is illustrated in the accompanying drawings in which

Fig. 1 is a front elevational view of the chair,

Fig. 2 is a side view of the chair,

Fig. 3 is a rear view of the chair,

Fig. 4 is a top view of the chair with the seat and back portions separated, and

Fig. 5 is a fragmentary vertical section of the chair showing the means for securing the back section to the seat and legs section.

Referring to the drawings, A is the seat and legs section of the chair and B the back section. The seat and leg section A consists of the front legs 1, 1 and the rear legs 2, 2 molded in a unitary structure with the intermediate seat 3. It will be appreciated that the seat and legs may be given any desired configuration or design, that shown in the drawings being merely illustrative. The back section B consists of the suitably shaped back 4 and the forwardly projecting part 5 which is adapted to extend through the slot 6 in the seat and leg section and to be secured to the seat by any suitable means such as the screw threaded bolt 7 secured to the bottom of the seat and extending through the opening 8 in the part 5 and the wing nut 9.

As will be apparent, both the seat and legs section and the back section of the chair readily may be made in such shapes as to facilitate nesting a plurality of the seat and legs sections and a plurality of the back sections. To this end the front and rear legs diverge away from the seat sufficiently to permit one seat and legs section to be nested in another seat and legs section and the angle formed by the parts 4 and 5 of the back section B are at an angle to each other of at least 90°. The part 5 of the back section B preferably fits snugly in the slot 6 but this is not essential. The parts are of course made sufficiently strong. Plywood of 5 to 9 plies and from ½ to ¾ inch in thickness gives a very strong and durable chair as will be well understood by one having a knowledge of plywood structures.

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It will be noted that the method of securing the back section B to the seat and legs section A is very simple favoring quick assembly. Relatively little strain is applied to the fastening means 7—9. When the chair is tilted forward by taking hold of the back only a few pounds force is applied to the bolt 7 and its fastening to the chair seat whereas when a person sitting on the chair applies pressure to the back the strain is taken by the part 5 pressing upwardly against the bottom of the seat and by the back pressing downwardly against the lower wall of the slot 6. The bolt 7 may therefore be sufficiently securely attached to the seat, e. g. by means of a relatively small plate and several small, e. g. half inch, screws.

I claim:

1. A plywood chair construction comprising a unitary seat and legs section and a unitary back section, said back section having a forward extension at its lower end, a slot in the seat and leg section adjacent the rear boundary of the seat adapted to receive said forward extension, and means for securing said forward extension to the under side of the seat.

2. A chair construction as defined in claim 1 in which the front and rear legs diverge away from the seat and in which the forward extension of the back section is at an angle to the remainder of the back section of at least 90°.

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REFERENCES CITED

The following references are of record in the file of this patent:

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