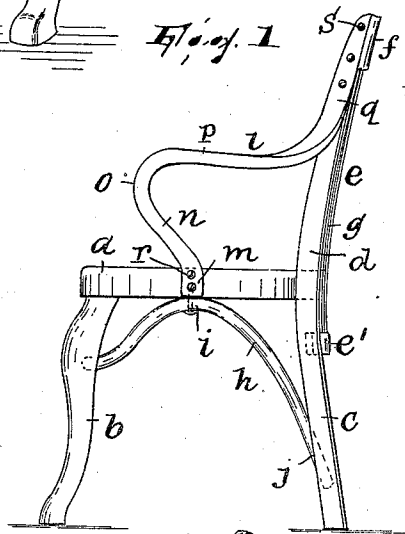
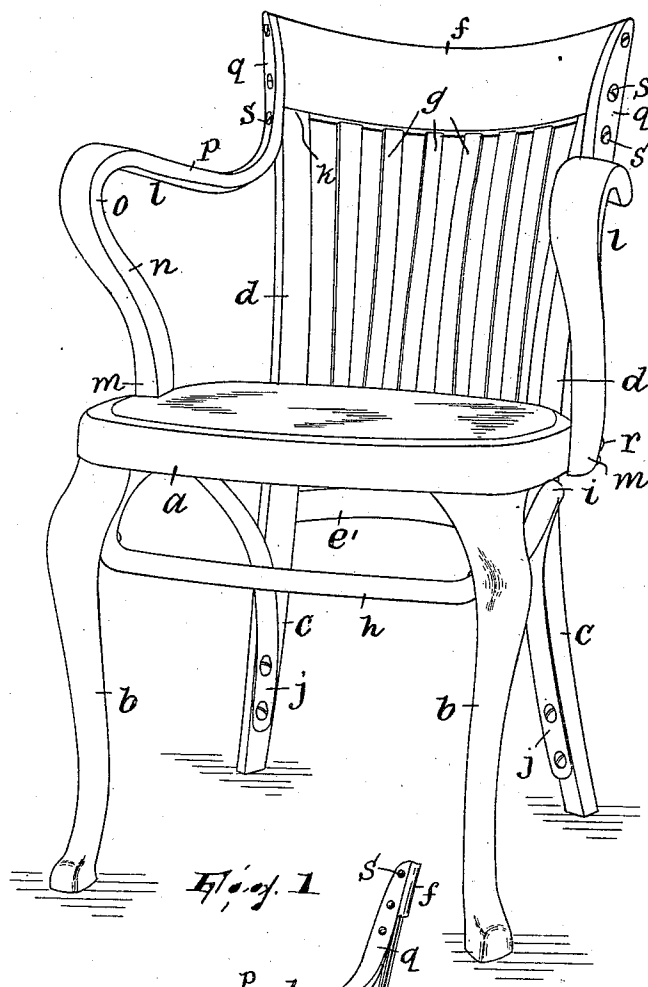


E. P. WANNER.
ARM CHAIR.
APPLICATION FILED NOV. 2, 1908.

940,995.

Patented Nov. 23, 1909.



WITNESSES

Wm. Drell.
Chas. Kaufmann.

Fig. 2.

INVENTOR,
Edwin P. Wanner,
BY
John L. Luvant,
ATTORNEY.

UNITED STATES PATENT OFFICE.

EDWIN P. WANNER, OF NEW YORK, N. Y.

ARM-CHAIR.

940,995.

Specification of Letters Patent. Patented Nov. 23, 1909.

Application filed November 2, 1908. Serial No. 460,718.

To all whom it may concern:

Be it known that I, EDWIN P. WANNER, a citizen of the United States, residing in New York city, borough of Manhattan, and State of New York, have invented a certain new and useful Improvement in Arm-Chairs; 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, reference being had to the accompanying drawing, and to letters of reference marked thereon, which forms a part of this specification.

My present invention relates to seating appliances and particularly to arm-chairs.

In my improved arm-chair, which is designed particularly for strength and stability and to impart an appearance of grace and symmetry, the back and back legs practically form a unitary or continuing structure, and, in addition to a peculiar brace which is preferably employed to secure the lower or back leg part of said structure to the seat, said structure is braced above the seat by two bent-wood arms which are rigidly attached to the back-forming part of said structure in the upper part thereof and to the seat forward of said structure.

Figure 1 is a perspective view of the improved chair; and, Fig. 2 is a side view thereof, on a slightly smaller scale.

a in the drawing represents the seat of the chair, the same being of any suitable kind and construction; *b* the front legs secured to the under side of the seat in the usual manner; and *c* the back legs, the same being integral with and forming downward extensions of the vertical members *d* of the back *e*. The back and back leg structure, comprising back legs *c* and the vertical members *d*, may be bolted or otherwise secured to the back of the seat, and it also comprises a brace *e'* rigidly connecting the back legs below the seat, a cross-piece *f* rigidly connecting the members *d* above the seat and (preferably) the vertical parallel spindles *g* connecting brace *e'* and cross-piece *f*.

In order to increase the stability of the chair as a whole, and particularly as between the seat and the back and front legs, I preferably employ a brace of the type illustrated in U. S. Patent No. 819,478, to A. Wanner, Jr. This brace, *h*, is a one-piece structure connecting and secured to the front legs and having its end-portions

arched and secured in their high parts, as at *i*, to the under side of the seat and at their extremities, as at *j*, to the back legs.

It should be remarked that the tops of the members *d* are cut off square, as at *k*, and that the ends of the cross-piece *f* are flush continuations of the sides of the said members, as shown in Fig. 1.

The back and back leg structure, braced below the seat by the brace *h*, is also braced above the seat, so as to be secure against any yielding relatively to the seat under such strains as accompany the occupant tilting back of the chair or working it from side to side when so tilted back, as follows: *l* designate the arms of the chair. Each of said arms is preferably a one-piece member of bent-wood of generally flat shape throughout, except at one end, where its cross-section is substantially square or as thick, approximately, one way as it is the other. From its thicker end *m* the member is bent first forwardly at an incline, as at *n*, then it is bent back in a rather full curve, as at *o*, extending thereupon approximately horizontally for a suitable distance to form the arm-rest portion proper, *p*, of the member, and finally it is bent up and twisted so that its extremity *q* stands in a plane which is about at an angle of 90° to the plane in which said extremity would stand if it were simply bent up without twisting. Each arm, thus formed, has its end *m* secured to the side of the seat, as by screws *r* or the like, and its extremity *q* resting flat against the upper portion of the back and back leg structure and secured firmly thereto by screws or the like *s*. The screws *s* are preferably driven into the cross-piece *f* and may also in some instances be driven into the members *d*, whereby to hold the cross-piece securely in its proper relation to the back and back leg structure, of which it forms a part, as well as to increase the reinforcing action of the arms on the back and back leg structure as a whole.

A chair thus constructed not only presents an attractive and graceful appearance but is peculiarly proof against weakening at the joints; the arms coact with the brace *h* to prevent yielding of the back and back leg structure relatively to the seat, due not only to the fact that said arms brace the back and back leg structure above the seat while the brace *h* performs the same service below it, but to the bent and twisted formation of

said arm; the arms further bind the cross-piece against working loose as a part of the back and back leg structure. In addition, owing to the twisted form of the arms, they
 5 respond less readily than they otherwise would to pressure exerted laterally thereon and such yielding as they may possess is not such which would be calculated to weaken the joints.

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

1. The combination of the seat, the front legs, the back legs, the back and bent arms
 15 each rigidly secured to the back and also to the seat forward of the back, each arm being bent from the seat first forwardly, then back in a curve, and then upwardly, the backwardly and upwardly extending portions of
 20 each arm being a continuously flattened part having the broad faces of the backwardly extending portion substantially horizontal and its upwardly extending portion twisted relatively to the rearwardly extending portion and also having the surface of said upwardly extending portion which forms a

continuation of the under surface of said rearwardly extending portion lying in contact with the back, substantially as described. 30

2. The combination of the seat, the front legs, a unitary back and back leg structure secured to the seat and comprising parts forming the back legs and vertical back members and a cross-piece connecting said
 35 back members in the upper part thereof, and generally flat bent arms each rigidly secured to the seat forward of said back and back leg structure and against the ends of the cross-piece, each arm being bent from the
 40 seat first forwardly, then back in a curve and then upwardly and having its upwardly extending portion twisted relatively to the remainder thereof, substantially as described. 45

In testimony, that I claim the foregoing, I have hereunto set my hand this 29th day of October, 1908.

EDWIN P. WANNER.

Witnesses:

CHAS. E. WALTER,
 WM. H. KUNTZ.