R. WOOD.

CHAIR.

No. 182,262. Patented Sept. 12, 1876.

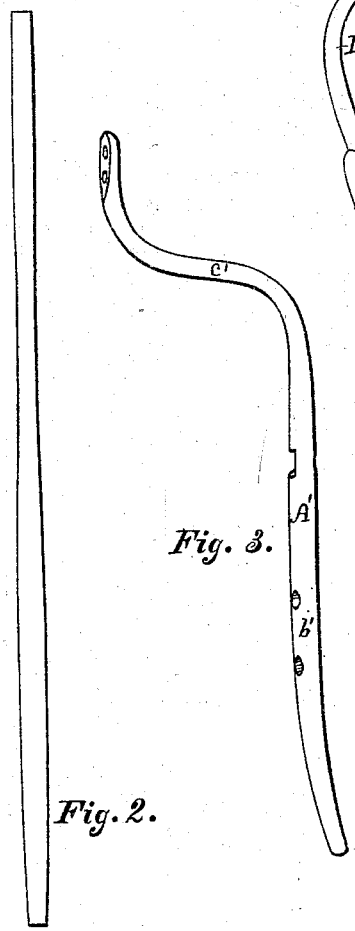

Fig. 3.

Fig. 2.

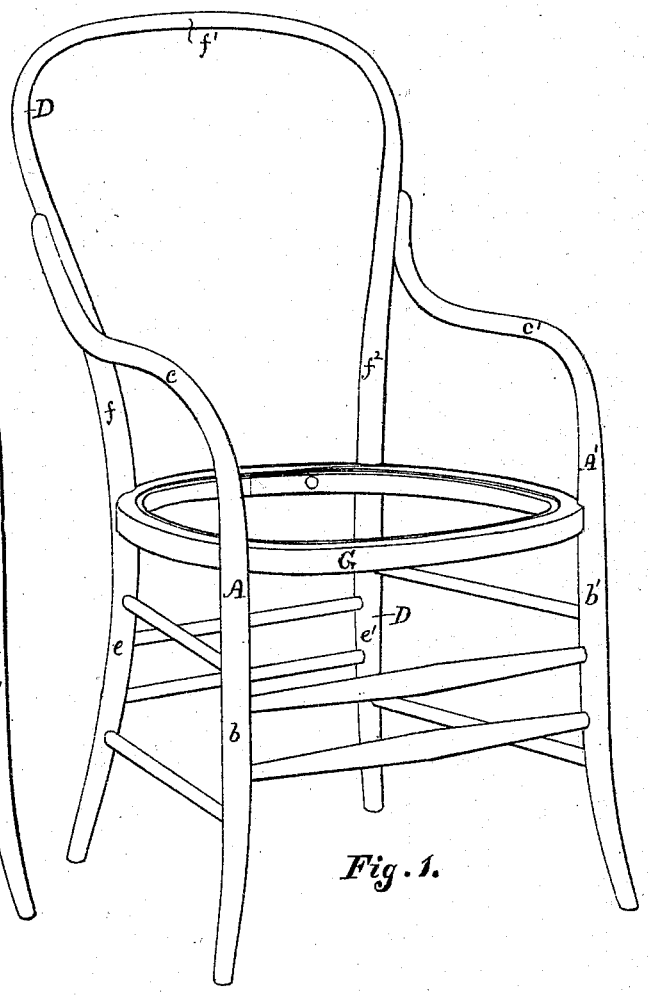

Fig. 1.

WITNESSES.

Frank A. Andrews

George C. Hastings

INVENTOR.

Robert Wood

UNITED STATES PATENT OFFICE.

ROBERT WOOD, OF WEST TROY, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO GROVE M. HARWOOD, OF SAME PLACE.

IMPROVEMENT IN CHAIRS.

Specification forming part of Letters Patent No. **182,262**, dated September 12, 1876; application filed June 26, 1874.

To all whom it may concern:

Be it known that I, ROBERT WOOD, of West Troy, in the county of Albany and State of New York, have made a new and useful invention in Chair-Frames, of which the following is a specification, reference being had to the accompanying drawing.

The principal object of my present invention is to cheaply produce from a very small quantity of straight-grained wood an exceedingly light, strong, and durable chair-frame having arms at its sides.

This invention consists of a permanent chair-frame, having the two rear legs and back posts with a bow top, all formed by one single bent rod or strip of straight-grained wood, the seat-frame formed by a single bent strip of straight-grained wood, and the two front legs and arm-rests formed by two bent strips of straight-grained wood, all shaped, arranged, and rigidly fastened and braced together at above and below the seat-frame, substantially as hereinafter described.

In the aforesaid drawing, Figure 1 is a perspective view of a chair-frame which embodies this invention. Fig. 2 is a side view of one of the straight strips or bolts of straight-grained wood from which the bent strips that constitute the front legs and arms of the chair-frame are formed, and Fig. 3 is a perspective view of one of the two artificially-bent strips of straight-grained wood which compose the front legs and arms of the chair-frame.

A A′ are the two artificially-bent strips of straight-grained wood which constitute the front legs *b b′* and arms *c c′*. D is the artificially-bent strip of straight-grained wood which forms the rear legs *e e′* and bow back ff^1f^2, substantially the same as in some other chair-frames heretofore made. G is the seat-frame, which consists of a single artificially-bent strip of straight-grained wood, having its ends beveled and fastened together essentially as in some other chair-frames previously manufactured.

The bent strips A, A′, D, and G are severally formed from suitably-shaped straight strips or bolts of tough straight-grained wood by steaming and permanently bending the same into the various proper shapes by any suitable known process and means.

Each upright part of the three strips A, A′, and D is formed with a horizontal recess, one being shown in the bar A′ in Fig. 3. The rim of the seat-frame G is fitted into these recesses, as represented in Fig. 1, and is rigidly fastened therein to each of the parts A, A′, and D by screws. The upper ends of the two parts A and A′ are shaped to fit along and against the two posts parts of the bow-back portion of the piece D, and are rigidly fastened thereto by screws above the seat-frame G, while the leg-parts *b b′* and *c′ c* of the bent rods A A′ D, are fastened and rigidly braced together below the seat-frame by horizontal rods, as clearly shown in Fig. 1 of the drawing.

By the aforesaid combination of the four artificially-bent strips A, A′, D, and G of straight-grained elastic wood, all shaped and rigidly fastened together at and to the seat-frame G, and with the parts A, A′, and D formed and rigidly fastened and braced to each other, both above and below the seat-frame, as hereinbefore specified and represented in the accompanying drawing, an extremely light, strong, elastic, and durable permanent chair-frame with a bow back and arm-rests is produced from a very small quantity of cheap material and at a moderate cost.

What I claim as my invention is—

A permanent chair-frame having a bow back and arm-rests, and formed by the four artificially-bent pieces A, A′, D, and G of straight-grained wood, all rigidly fastened together at the seat-frame, and with the parts A, A′, and D rigidly fastened and braced together above and below the seat-frame, as described.

ROBERT WOOD.

Witnesses:

FRANK A. AMBROS,
GEORGE C. HASTINGS.