

C. R. LONG.
Knock-Down Chairs.

No. 137,613.

Patented April 8, 1873.

Fig. 1.

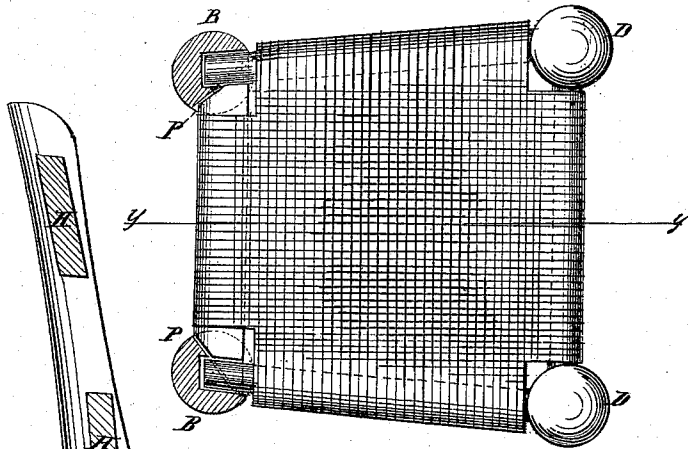


Fig. 2.

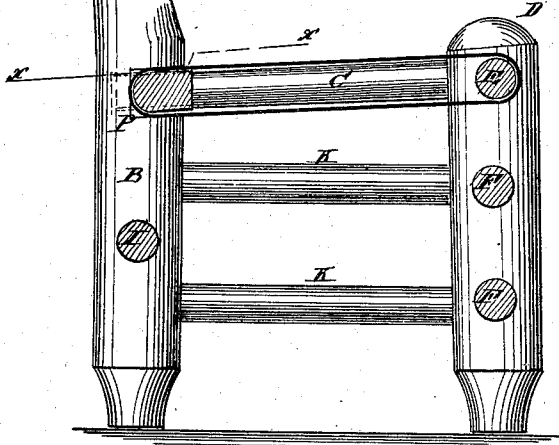


Fig. 3.

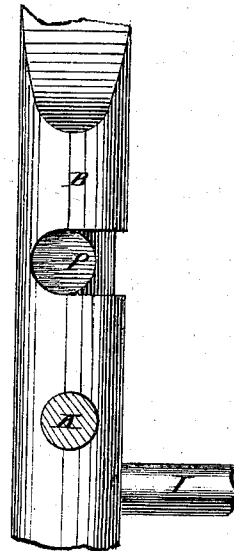
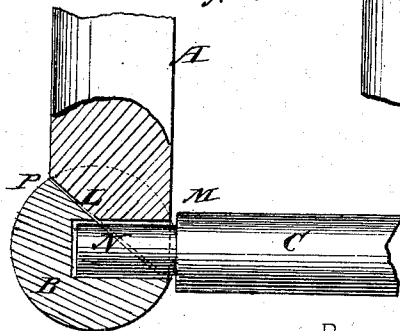


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES R. LONG, OF LOUISVILLE, KENTUCKY, ASSIGNOR TO LONG & BROTHERS, OF SAME PLACE.

IMPROVEMENT IN "KNOCK-DOWN" CHAIRS.

Specification forming part of Letters Patent No. **137,613**, dated April 8, 1873; application filed February 21, 1873.

To all whom it may concern:

Be it known that I, CHARLES R. LONG, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and Improved "Knock-Down" Chair, of which the following is a specification:

For making knock-down chairs, for convenience in packing them in parts for shipment and storage and then setting them up readily, I propose to bevel the ends of the back rail of the seat-frame on an angle of forty-five degrees or thereabout, and form a half-round notch in each end fitting the tenon of the side stretchers, and arrange them so that said tenons extend through and by said notches to enter the holes for them in the posts of the back of the chair, in which I make oblique notches for the ends of the back rail coinciding with the holes for the tenons of the side stretchers, so that when the seat-frame is put together, and the seat-bottom woven in it, the back rail and the side stretchers can be put together with the back posts by entering them in the notches and holes together from the front; and I fit the back rail and the side stretchers together and glue them, and connect the side and front stretchers to the front posts in the ordinary way, and then weave the seat-bottom on, which forms an L-shaped structure which nests together compactly for shipping. I also connect the back posts together in any ordinary approved way by the back cross-pieces, and thus have them in convenient shape for packing compactly in bundles, by which I have the principal part of the chair in two bundles—say, a dozen in each—and with these I pack the requisite number of side rounds or sticks for connecting the front and back posts—say, forty-eight—for a dozen chairs, and thus have everything necessary for setting them up in compact form for shipping.

Figure 1 is a horizontal section of a chair constructed according to my invention, the section being taken on the line *xx* of Fig. 2. Fig. 2 is a sectional elevation taken on the line *yy* of Fig. 1. Fig. 3 is a front elevation of a section of a back post, showing the arrangement of the hole for the tenon for the side stretcher and the notch for the back rail;

and Fig. 4 is a horizontal section of one of the back posts and one end of the back rail on the line *xx* of Fig. 2, enlarged.

A is the back rail; B, the back posts; C, the side stretchers; D, the front posts and the front stretchers. I connect the front posts D together by the front stretchers E and the rounds or connecting-sticks F in the ordinary way. I also connect the side stretchers to said posts in the ordinary way, and also connect the back posts B by the cross-bars H and the connecting-stick I; but, for shipping, I do not connect the back to the seat-frame, nor to the front posts, and do not attach the side-connecting sticks K; but to provide for completing the seat and readily connecting it when the chair is set up, I bevel the ends of the back rail A, as shown at L, form the half-round notches M in the beveled ends, fit the tenons N of the side stretchers C therein with the shoulders against the side of the side rail, glue them together, and form the seat-bottom on the said rail and the side and front stretchers, as represented in the drawing, the said side and front stretchers being connected to the front posts; and to allow of putting the chair up readily after the seat is thus made, I form the oblique notches P in the back posts in connection with the holes for the tenons N, so that the back rail and tenons of the side stretchers will enter their places in the back posts together, and at the same time the said cross-pieces K are fitted in the posts. The joints thus formed may be glued together, or the glue joints of the cross-pieces K with the posts may be relied on for holding the chair together.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The back rail A with bevel L and half-round notches M, the stretchers C with tenons N, and the posts B with oblique notches P, combined to form a joint in a knock-down chair, as and for the purpose described.

CHAS. R. LONG.

Witnesses:

W. C. LONG,
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