



# United States Patent Office.

THOMAS BABBITT COMINS, JR., OF LOWELL, MASSACHUSETTS.

Letters Patent No. 108,973, dated November 8, 1870.

## IMPROVEMENT IN FOLDING-CHAIRS.

The Schedule referred to in these Letters Patent and making part of the same.

I, THOMAS BABBITT COMINS, JR., of Lowell, the county of Middlesex and State of Massachusetts, have invented certain Improvements in Folding-Chairs, of which the following is a specification.

Figure 1 is a perspective view of my invention;

Figure 2 is a side elevation of the same, folded;

Figure 3 is a perspective view of one of the arms, detached; and

Figure 4, a similar view of a modification of the same.

This invention is an improvement on the chair patented by me January 11, 1870; and

It consists in certain details of construction, which will be more fully described hereinafter.

In the drawing—

A represents a rectangular frame, which consists of the parallel bars A', connected at each end by the transverse rods *a*, and constituting the forward legs of the chair.

B B represent shorter bars, pivoted, at *b*, to bars A' below the center, and constituting the rear legs of the chair.

The upper ends of bars B project slightly beyond the point *b*, and are provided with the metallic or other points C.

D D represent arms pivoted to bars A' above bars B, which arms are provided on their under sides with notches or depressions *d* and projections *d'*.

E represents the seat-frame, which is composed of two curved side-pieces *e e*, the front ends of which are connected by a suitable cross-bar, while to their rear ends are attached the upwardly-projecting lugs F, which are pivoted to the bars B below the point *b*.

The pieces *e* may be curved, as shown, or straight, as in the original patent.

H represents a strip of cloth, which extends from the cross-bar *a*, at the upper end of frame A, to the bar which connects the front ends of pieces *e*, and constitutes the back and seat of the chair.

*h* represents a pin, which projects outwardly from

each side of the frame A and supports the pieces *e* of the seat-frame E.

When the chair is in the position shown in fig. 1 the points C of the bars B bear against projections *d'* of arms D; but if it is desirable to give a lesser degree of inclination to the frame A, the points C may be caused to engage two of the notches *d*, thereby raising the back, as desired.

This construction is more comfortable than the original, inasmuch as it is provided with arms and can be more closely packed for shipping, as the elbow-shaped lugs F enable the seat-frame E to lie closely on the other parts when folded, as shown in fig. 2.

If desirable, I dispense with notches *d* and projections *d'*, and substitute grooves, *d''*, in the under sides of arms D, said grooves running nearly the whole length of the same, and the holding of the parts effected by latching pins *h* into grooves *h'* in the under sides of pieces *e*, as in the original patent, in which case the points C of bars B do not latch with arms D, excepting when at the outer ends of grooves *d''*, but merely support said arms and prevent them from lateral displacement; and the adjustment of the chair is effected in the patent referred to.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The arms D, provided with notches *d* and projections *d'*, or groove *d''*, and seat-frame E, provided with elbow-shaped lugs F and notches *h'*, in combination with bars B, provided with pins *h*, frame A, and cloth H, all constructed as herein described, for the purpose specified.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS B. COMINS, JR.

Witnesses:

CARROLL D. WRIGHT,

CHARLES F. BROWN.