A. Eliaers,

Folding Chair,

No. 45,146. Patented Nov. 22, 1864.

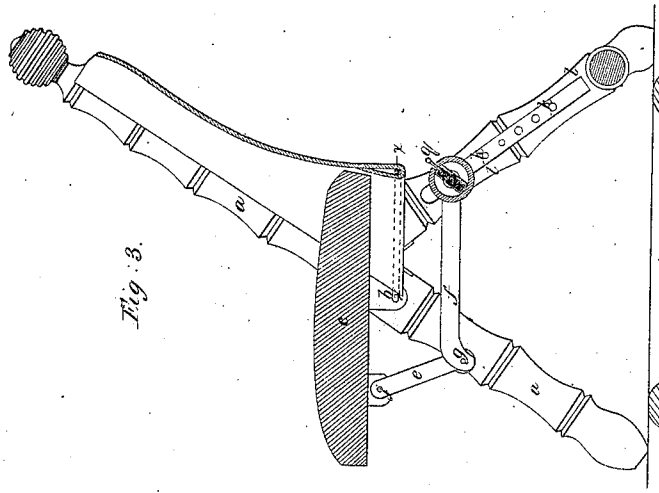

Fig. 3.

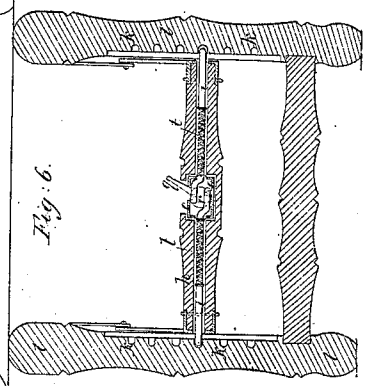

Fig. 6.

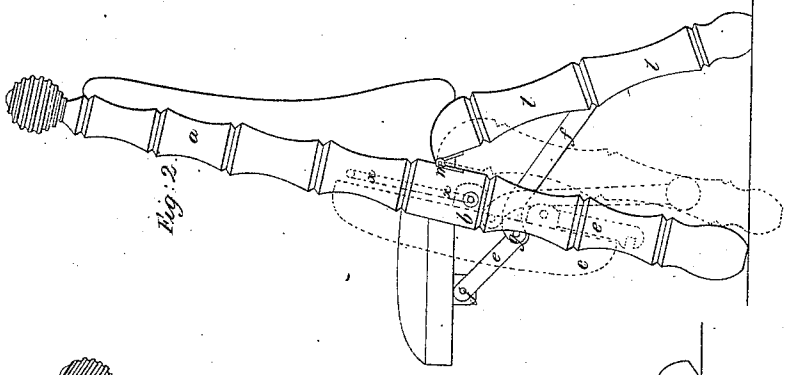

Fig. 2.

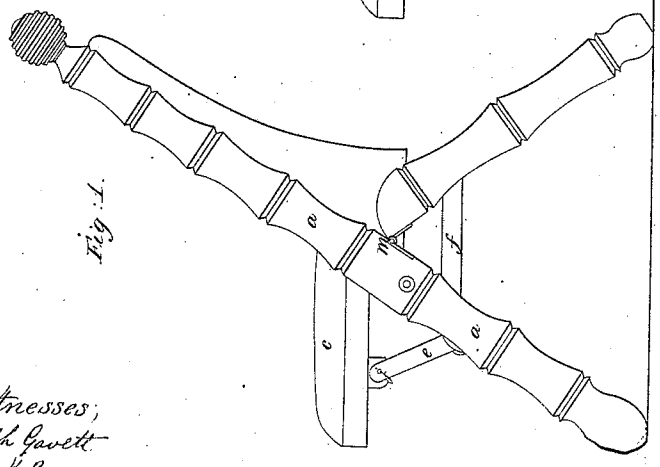

Fig. 1.

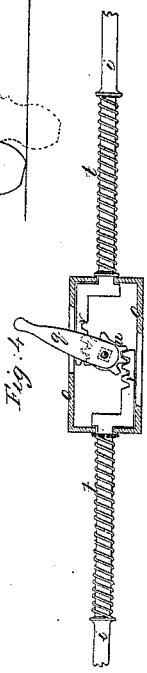

Fig. 4.

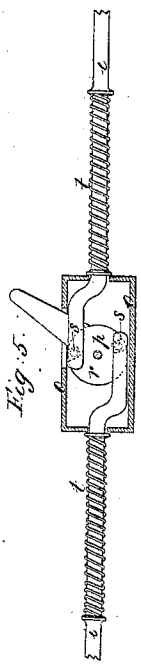

Fig. 5.

Witnesses;
Joseph Gavett
Chas. A. Barton.

Inventor,
Augustus Eliaers

UNITED STATES PATENT OFFICE.

AUGUSTUS ELIAERS, OF BOSTON, MASSACHUSETTS.

IMPROVED FOLDING CHAIR.

Specification forming part of Letters Patent No. 45,146, dated November 22, 1864.

To all whom it may concern:

Be it known that I, AUGUSTUS ELIAERS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Portable Chairs; and I do hereby declare that the following description, taken in connection with the accompanying plate of drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, whereby my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

My improvements are designed for the purpose of so arranging and constructing a chair that its back can be set at any desired inclination, and so that the whole chair can be brought into a very small compass, to facilitate its transportation from place to place.

My improvements consist in connecting a pivoted seat by means of suitable braces with the hind legs of the chair, and held or locked thereto by a locking device in such a manner as to vary at pleasure the angle which the rear legs make with the front ones. Also, in constructing a flexible back with a rigid ring or bar, so attached to the legs of the chair as to both shape the flexible back and also enable it to be folded into a small compass.

The figures of the accompanying plate of drawings represent my improvements. Figure 1 is a side elevation of my improved chair. Fig. 2 is a similar view showing the chair in different positions. Fig. 3 is a central vertical section of the same. Figs. 4, 5, and 6 are detail views, to be hereinafter referred to.

a a in the drawings represent the front or main legs of the chair, to which is attached, by pivots at *b b*, the seat *c*, which is supported by braces *e* (turning upon a pivot at *j*) and *f* hooked together at *g*, so as to be readily engaged with or disengaged from each other. The rear braces, *f*, are attached to a hollow cross-bar, *h h*, within which play two horizontal rods *i i*, that can be made to engage with or be disengaged from notches *k k*, &c., in the hind legs, *l l*, (hinged to the front legs at *m*,) as follows: Within the hollow cross-bar *h h* is placed a box, *o*, Figs. 4, 5, and 6, attached to which, by a pivot *p*, is a short lever-arm, *q*, terminating in a circular plate, *r*, Figs. 5 and 6, which also turns upon the pivot *p*. To this plate, by means of pins *s s*, are connected the rods *i i*, having spiral springs *t t* upon them, that serve to keep the ends of the said rods engaged with the notches of the hind legs of the chair. By turning the lever-arm *q* it will be seen that the rods *i i* can be drawn out from the notches *k k*, and then by relieving the pressure upon it the springs *t t* will force the rods *i i* again into any of the notches desired; and, as the hind legs are hinged to the front ones, it will be evident that by this arrangement they can be set and held at any desired inclination. In Fig. 4 the rods *i i* are represented as operated by a pinion, *u*, and racks *v*, as will readily be understood. The flexible back *w w* is formed at the bottom, so as to give it a semicircular shape, by means of a bent bar, *x*, Fig. 3, pivoted to the front legs, *a a*, at *b*, so as to be turned up, if desired, into the position shown by dotted lines in Fig. 2. The whole chair can be folded into a very narrow compass, as shown by dotted lines in Fig. 2, by disconnecting the braces *e* and *f* and setting the cross-bar *h h* at its lowest point in the hind legs, *l l*.

It will be observed that by the arrangement of braces and locking devices the chair is supported without the use of arms.

Having thus described my improvements, I shall state my claims, as follows:

I do not claim so arranging a folding chair that a flexible back is tightened or loosened by the movement of the seat, but

What I claim as my invention, and desire to have secured to me by Letters Patent, is—

1. The arrangement of the pivoted seat supported by suitable braces held by a locking device in such a manner that the chair can be set at any desired inclination, as described.

2. The arrangement of the locking device and pivoted or hinged legs operating together, as described.

3. The use of a rigid pivoted ring or bar to shape the flexible back, and also to enable it to be folded into a small compass, arranged substantially as described.

AUGUSTUS ELIAERS.

Witnesses:

JOSEPH GAVETT,

A. POLLOK.