

(No Model.)

N. SORENSEN.
COMBINATION ELEVATING CHAIR.

No. 417,750.

Patented Dec. 24, 1889.

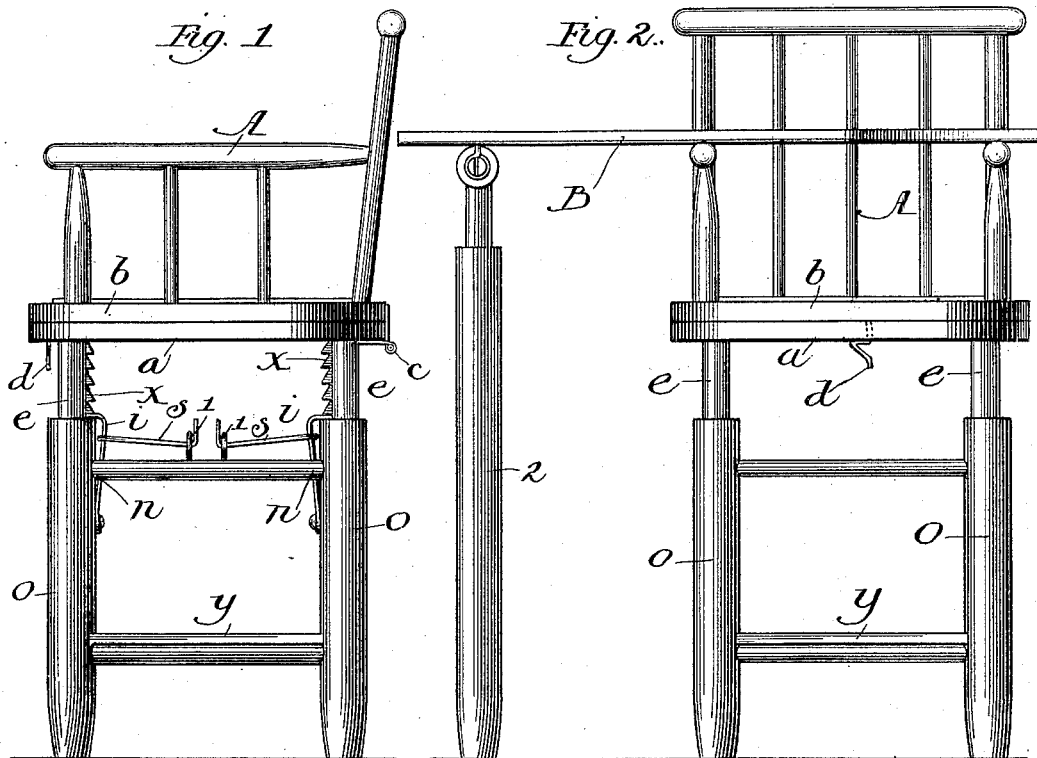
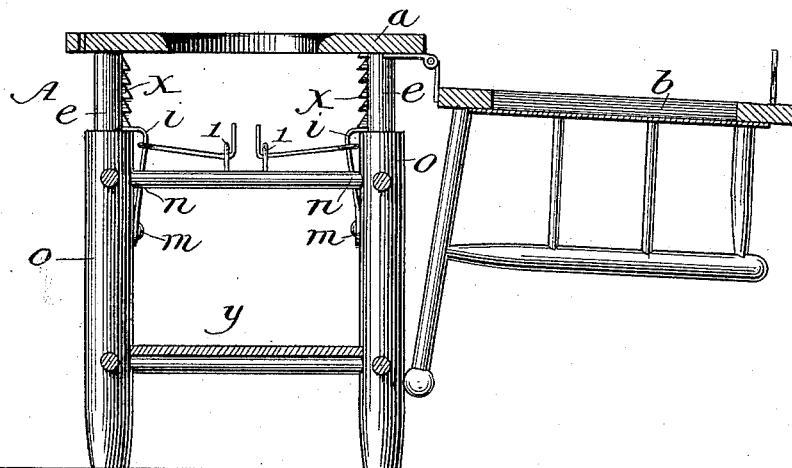


Fig. 3.



Witnesses:

Frank Blanchard
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Inventor:

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att'y

UNITED STATES PATENT OFFICE.

NELS SORENSEN, OF CHICAGO, ILLINOIS.

COMBINATION ELEVATING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 417,750, dated December 24, 1889.

Application filed June 7, 1888. Serial No. 276,421. (No model.)

To all whom it may concern:

Be it known that I, NELS SORENSEN, a citizen of the United States, residing in the city of Chicago and State of Illinois, have invented a new and useful Improvement in Combination Elevating-Chair, of which the following is a specification.

The objects of my invention are to provide a combination elevating-chair that can be made useful in various positions or to suit the height or convenience of the person using it.

My objects are attained by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the chair, showing the manner in which the seat may be elevated or lowered. Fig. 2 is a front elevation of the chair when used to support an ironing-board similarly elevated. Fig. 3 shows the chair with back reversed.

Similar letters refer to similar parts throughout the drawings.

In the construction of the chair I use a double seat *a b*, with a hinge *c* at the back and an ordinary latch-spring *d* at the front. This enables me to reverse the back or upper portion of the chair *A*, as in Fig. 3. The other portion of the chair *A* then appears as a stool, having the seat *a* open or cut out in the center, as shown in Fig. 3, which may then be used to support a wash tub or basin, and on the reversed portion of the seat *b* may be placed the basket to receive the laundered wash. The seat *a* may be elevated or lowered at pleasure to suit the height or convenience of the person using it by means of the extension-legs *e e* and *o o*. The legs *o o* are hollow and form a sleeve for the insertion of the legs *e e*, which have on their inner side ratchets which engage with the steel springs *i i*. By simply lifting the seat *a* it may be elevated to the height required. The springs *i i*, working in the ratchets, will catch and hold the seat at the point desired. The seat *a* is lowered by drawing back the springs *i i* from the ratchets *x x* by means of the rods *s s*, when it will drop by its own weight. Any other form of spring may be used to operate on the ratchets that may best answer the purpose. I may prefer a flat spring of one piece attached to the under side of the round, entering the

ratchets at each side and bent in the middle in the shape of the letter *M*, the two extremities of the letter working in a groove and in a staple, so that when the two projecting ends of the *M* are pressed together the ends of the springs engaging with the ratchets are withdrawn.

The springs *i i*, Fig. 1, are made of flat steel, bent at one end and fastened at the other to the legs *o o* at *m* and passing through a mortise in the round *n n*. The rods *s s*, Fig. 1, are attached to the springs *i i* and pass through the eyes *l l*, raised on the round *n*. The rods, being drawn toward each other by one movement of the hand, operate on the springs *i i* in the ratchets *x x*. Various methods may be adopted to accomplish this result. The springs operating in the ratchets may also be arranged to be moved by a pressure of the foot on the bottom of the chair, the usual connections being made for that purpose.

The chair *A* is made with a bottom board *y* at the lower rounds, completely closing the bottom of the chair. The seat *a*, having its center cut out or removed, as illustrated in Fig. 3, the chair may be used as an invalid's stool, the vessel being placed on the bottom *y*. A child may be taught the use of its limbs by placing it in the center *a* and allowing its feet to stand on the board *y*. In this position it may remain without injury or falling. The chair may also serve as an infant's high dining-chair or as a high office-chair, and for a variety of purposes.

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

In an elevating-chair, the combination of the double-seat *a b*, hinged together at *c*, a spring-catch *d*, legs *e e*, secured to said seat and having thereon the ratchet-plates *x x*, the sleeves *o o*, in which the legs work, springs *i i*, secured to said sleeves, eyes *l l*, and rods *s s*, engaging the springs and passing through the eyes, substantially as described.

NELS SORENSEN.

Witnesses:

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