

**Improvements in chairs for the use of invalids and for other purposes /
[Martin Eugene Schutt].**

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COMPLETE SPECIFICATION.

[Communicated from abroad by MARTIN EUGENE SCHUTT and ALBERT WELLINGTON CHAPMAN, both of Chesaning, Michigan, United States of America, Manufacturers.]

Improvements in Chairs for the Use of Invalids and for other Purposes.

I, HENRY HARRIS LAKE, of the firm of Haseltine, Lake & Co., Patent Agents, Southampton Buildings in the County of Middlesex, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

- 5 This invention relates to chairs to be suspended by elastic means and which are convertible for a sitting and a reclining position of the occupant; and it has for its objects the novel construction and association of parts, substantially as below described and claimed.

In the drawings forming a part of this specification, Figure 1 is a side elevation; 10 Fig. 2, a front elevation looking from a point at the left of Fig. 1.

Referring to the lettered parts of the drawings, *a a* are the framed sides of the chair, and *r* the bottom. The bottom here shown consists of slats; but this is now material, for the bottom will ordinarily be upholstered at the pleasure of the purchaser.

- 15 The chair is divided into three sections, a center part or seat proper, a front part or foot-rest proper, and a back part. These sections are hinged together, and are either adjusted all in a horizontal position, as in dotted lines in Fig. 1, or the foot rest may be fixed at a downward incline, as at left hand in Fig. 1, and the back at an upward incline, as at the right hand in Fig. 1, leaving the center section or 20 seat horizontal. In this position the occupant sits in the chair with his legs below the knee inclining down the front part and his feet on the foot-board X. Of course the parts can be adjusted and fixed at intermediate points from the two positions here illustrated, as will appear clear from the following:

- The center section or seat part is supported by two pendent rods, *b b*. The 25 sections are hinged at 2 4 to the bottom rail of the sides. To each front lower corner of the rear section is attached a slotted strap, *f*. To the rear upper corners of the center section are fixed lateral projections 5, which pass loosely through the slot of the straps *f*. When the back is down, these straps form a continuation of the top of the sides of the chair, the same as the straps *c*, Fig. 1 form a con- 30 tinuation of the top of the sides between the front and middle sections. These straps *c*, however, have notches which catch over the projection 3 of the middle section and hold the front section at the different positions. The rear section is supported at its different angles by the rods *d* which rods are jointly attached to the sides of said section *a* at the lower ends of said rods. On each rod *b* is a sliding 35 collar, *e*, held at different heights on said rods by set-screws, Figs. 1 and 2. The upper ends of the rods *d* are jointly attached to the collars *e*. The upper ends of the rods *b b* are attached to a cross-piece, *i*. *i*¹ is a cross-piece adapted to be suspended from a suitable beam, E., or other support.

- At *u* are a series of spiral springs attached at the upper ends to the cross-piece *i*¹ 40 and at the lower ends to the cross-piece *i*. These springs are detachable, and hence as many of them may be employed at a time as desirable, according to the weight of the occupant of the chair.

- This chair can be used by persons in health as a swing elastically supported, but is especially desirable for invalids, and, owing to its simplicity and cheapness and ease 45 of adjustment, is very available and useful.

[Price 6d.]

Lake's Improvements in Chairs for the Use of Invalids and for other Purposes.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. The convertible suspending chair comprising the pendant rods, the central section supported by said rods, the front section attached to the center section by 5 hinges at the lower side and the projections and notched bars at the upper side, the rear section hinged to the center section, the collars with set-screws on the vertical rods, and the oblique rods jointedly attached to said collars and the rear section, substantially as set forth.

2. The chair-sections hinged together, the dependent rods supporting the center 10 section, the sliding collars on said rods and their set-screws, the rods jointedly attached to said collars and to the rear sections, and springs elastically suspending the whole, substantially as set forth.

3. The combination of the convertible chair-sections hinged together, the upper cross-pieces, the series of vertical springs between the cross-pieces and attached 15 thereto at their ends, the pendent rods attached to the lower cross-piece and suspending the center section, the sliding collars on said rods and their set-screws, and the oblique rods jointedly attached to the collars and to the rear section of the chair, substantially as set forth.

Dated this 23rd day of May 1889.

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[This Drawing is a reproduction of the Original on a reduced scale.]



