C. A. LEE.

ADJUSTABLE FOOT REST FOR CHAIRS.

APPLICATION FILED JULY 16, 1915.

1,262,216.

Patented Apr. 9, 1918.

2 SHEETS—SHEET 1.

Fig. 1.

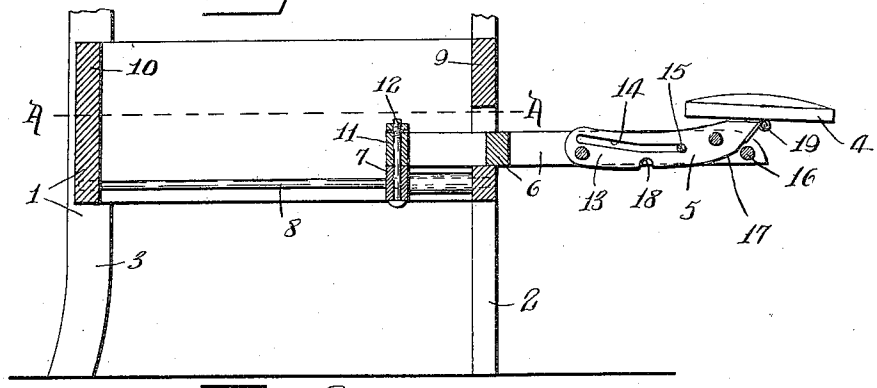


Fig. 2.

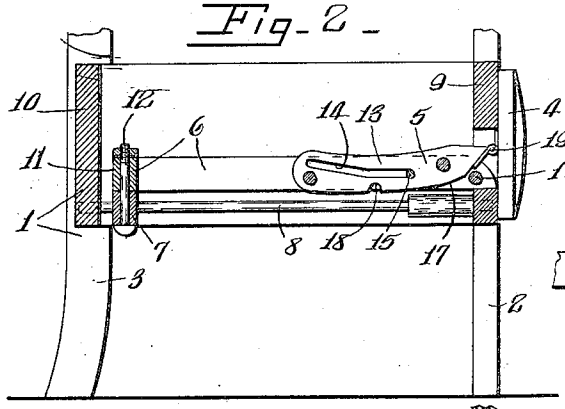


Fig. 3.

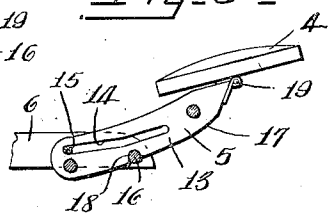
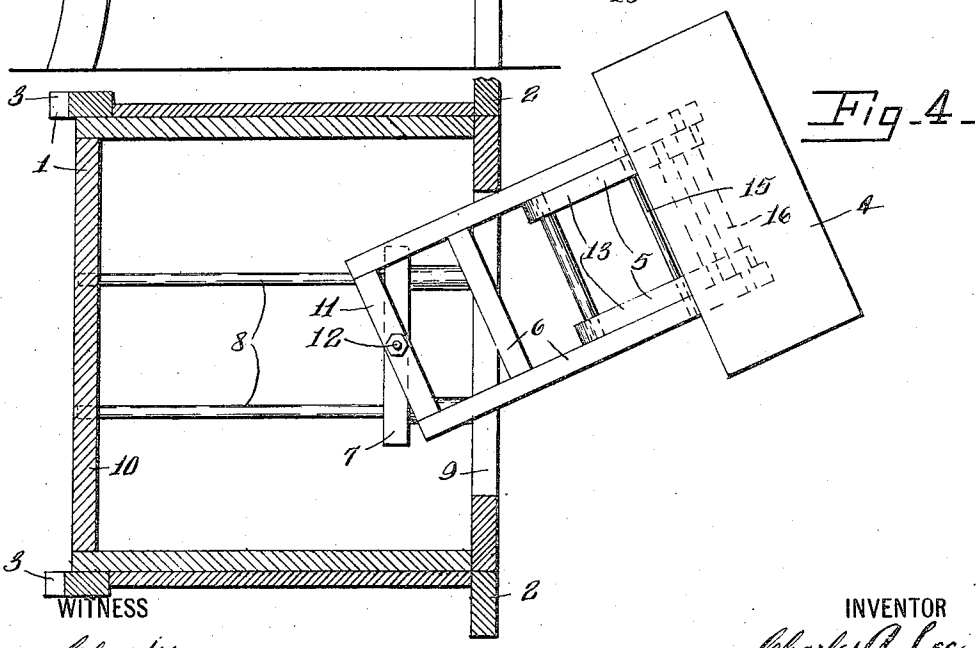


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 5.

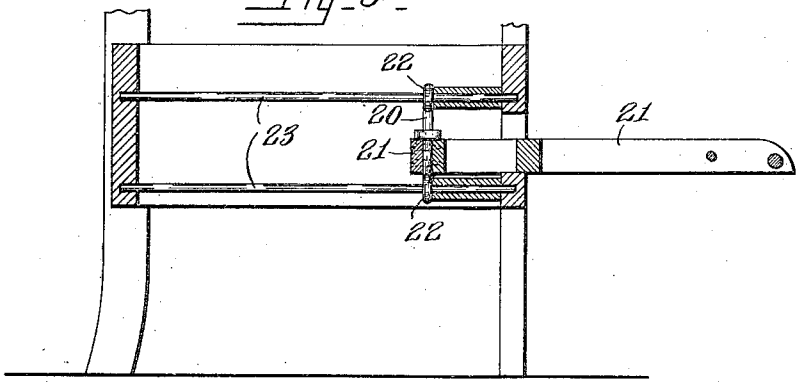


Fig. 7.

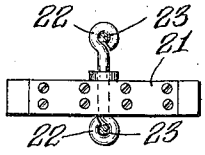
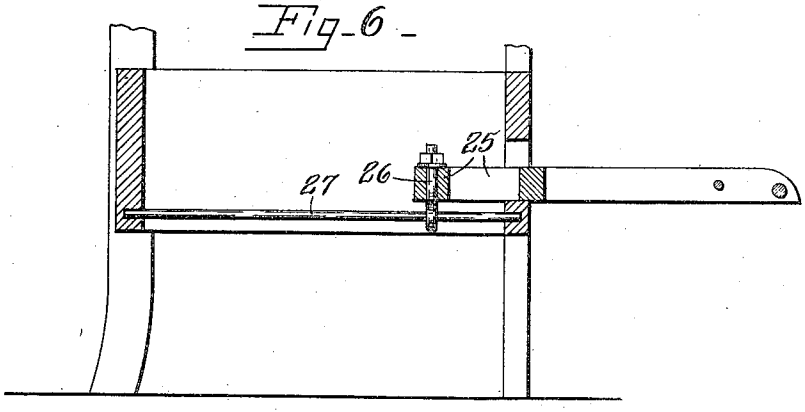


Fig. 6.



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UNITED STATES PATENT OFFICE.

CHARLES A. LEE, OF ONEIDA, NEW YORK, ASSIGNOR TO WILBERT L. SMITH, OF SYRACUSE, NEW YORK.

ADJUSTABLE FOOT-REST FOR CHAIRS.

1,262,216. Specification of Letters Patent. Patented Apr. 9, 1918.

Application filed July 16, 1915. Serial No. 40,224.

To all whom it may concern:

Be it known that I, CHARLES A. LEE, a citizen of the United States, and a resident of Oneida, in the county of Madison and State of New York, have invented a certain new and useful Adjustable Foot-Rest for Chairs, of which the following is a specification.

This invention relates to chairs, and has for its object a particularly simple and efficient foot rest construction. The invention consists in the combinations and constructions hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawings, in which like characters designate corresponding parts in all the views.

Figure 1 is a vertical sectional view through the lower portions of a chair embodying my invention, the foot rest being shown as in its extended position.

Fig. 2 is a view similar to Fig. 1, the foot rest being shown as in its rearward or inoperative position.

Fig. 3 is a fragmentary view showing the relative position of the foot rest and the carriage when the foot rest is elevated.

Fig. 4 is a horizontal sectional view taken on the plane of line A—A, Fig. 1, showing the lateral adjustment of the foot rest.

Figs. 5 and 6 are views similar to Fig. 1, parts being omitted, of modified forms of the means connecting the foot rest frame and the chair body.

Fig. 7 is a detail view of parts seen in Fig. 5.

This invention comprises, generally, a chair including a body, a foot rest, and a carriage for the foot rest movable forwardly and rearwardly relatively to the body, the foot rest including a frame connected to move forwardly and rearwardly and to elevate its front end which carries the foot piece during the forward movement of the frame. Preferably, the carriage for the foot rest also has a lateral movement so that it can be swung laterally so as not to obstruct a person when getting into or out of the chair. The foot piece of the rest also has a folding or collapsing movement so that it will come flatwise against the front of the chair when the foot rest is in its rearward position.

1 designates the chair body which includes the usual seat (not shown) and the front and rear legs 2, 3. 4 designates the foot piece of the foot rest, and 5 the frame supporting the foot piece.

6 is the carriage supporting the foot rest composed of the parts 4, 5, this carriage being movable forwardly and rearwardly relatively to the chair body beneath the seat thereof. As here shown, the carriage 6 is mounted on a slide 7 movable along the guide rods 8 extending forwardly and rearwardly of the chair body, and supported at their front and rear ends by cross-bars 9, 10.

The carriage 6 consists of opposing side pieces which are connected by suitable cross-bars, one of these cross-bars, as 11, being located near the rear end of the carriage and being pivotally connected between its ends by a vertical pivot 12 to the slide 7, so that the support 6 can swing laterally on its pivot 12 in either direction in order that the foot rest may be placed to one side out of the way of the person when about to get into or out of the chair.

The frame 5 of the foot rest also includes side pieces 13 extending between the side pieces of the frame 6, and being movable forwardly and rearwardly thereof. The frame 5 is here shown as formed with lengthwise slightly angular or curved slots 14 through which extends means as a pin or rod 15 connecting the side pieces of the carriage 6. The frame 5 is guided and supported in its forward and rearward movement by the rod 15 and slots 14 and also by a rod 16 connecting the front ends of the side bars of the frame 6, and engaging the slightly curved or inclined lower faces 17 of the side bars 13 of the foot rest frame.

During the forward movement of the frame 5 from its position shown in Fig. 1, to that shown in Fig. 3, the front end of the frame and hence the foot piece 4 will have curvilinear movement so that the front end or foot piece is elevated. The frame 5 is held in its forward or elevated position in any suitable manner. As here shown,

it is formed with notches 18 in the lower edges of its side bars 13, which notches seat on the rod 16 as seen in Fig. 3.

Preferably, the foot piece 4 is hinged at 19 to the front end of the frame 5 so that the foot piece may be folded from a horizontal to a vertical position, as seen in Fig. 2, and folded against the front side of the chair body when the foot rest and its associated parts are in their rear position, and hence form a finish for the front side of the chair.

In Figs. 1, 2 and 3, the slide 7 is shown as mounted on a pair of guide rods arranged in the same horizontal plane. In Figs. 5 and 6 are shown modified forms of the carriage and its supporting means. In Fig. 5, the carriage 20 is shown as a vertical rod on which the foot rest frame 21 is pivoted, the rod having eyes 22 at its ends which receive horizontal guide rods 23 arranged one above the other in a vertical plane. In Fig. 6, the foot rest frame 25 is shown as pivoted on a carriage 26 consisting of an eye bolt or a rod having an eye at its lower end which receives a single guide rod 27.

In operation, when the foot rest is not in use, it is in the position shown in Fig. 2, but when it is desired to use the foot rest, the carriage 6 is pulled outwardly any desired distance to suit the user and is swung to one side into the position shown in Fig. 4, and after the person has become seated in the chair, he can swing the foot rest back into its straight position. If a higher elevation of the foot rest is desired, the foot rest frame 5 is moved forwardly by forward pressure applied to the foot piece 4, this movement of the frame 5 bringing the parts into the position shown in Fig. 3.

This foot rest construction is particularly advantageous in that it is economical in manufacture, easily operable and cannot get out of order.

What I claim is:—

1. In a chair, the combination of a body, a foot rest, and a carriage for the foot rest supported by the body, the foot rest including a frame formed with a lengthwise slot, the carriage being formed with a pin extending into the slot about which pin the frame has a pivotal movement during forward and rearward movement of the frame, the frame being also formed with an upwardly inclined face near its front end, and the carriage being formed with a rest on which the inclined face of the frame bears during its forward and rearward movement, substantially as and for the purpose specified.

2. In a chair, the combination of a body, a foot rest, a carriage for the foot rest slidable forwardly and rearwardly relatively to the body, the foot rest including a frame movable forwardly and rearwardly of the carriage and a foot piece hinged to the frame in position to come flatwise against the front of the chair when the carriage and the foot rest are withdrawn or in their retracted position, the frame and the carriage also havhaving means by which the foot piece is elevated during the forward movement of the frame relatively to the carriage, substantially as and for the purpose set forth.

In testimony whereof, I have hereunto signed my name in the presence of two attesting witnesses, at Oneida, in the county of Madison, and State of New York, this 12th day of June, 1915.

CHARLES A. LEE.

Witnesses:
F. J. SKELTON,
CHAS. H. YOUNG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."