

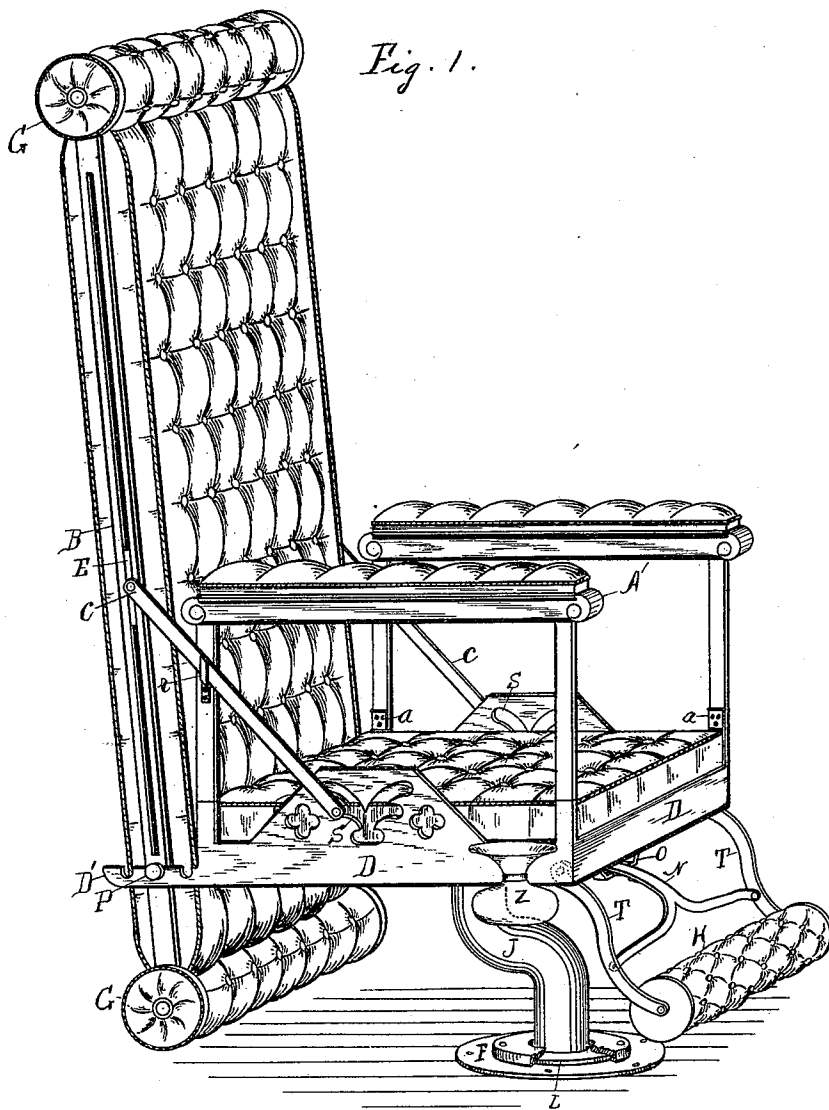
(No Model.)

2 Sheets—Sheet 1.

W. F. MILLS.
RECLINING CHAIR.

No. 434,193.

Patented Aug. 12, 1890.



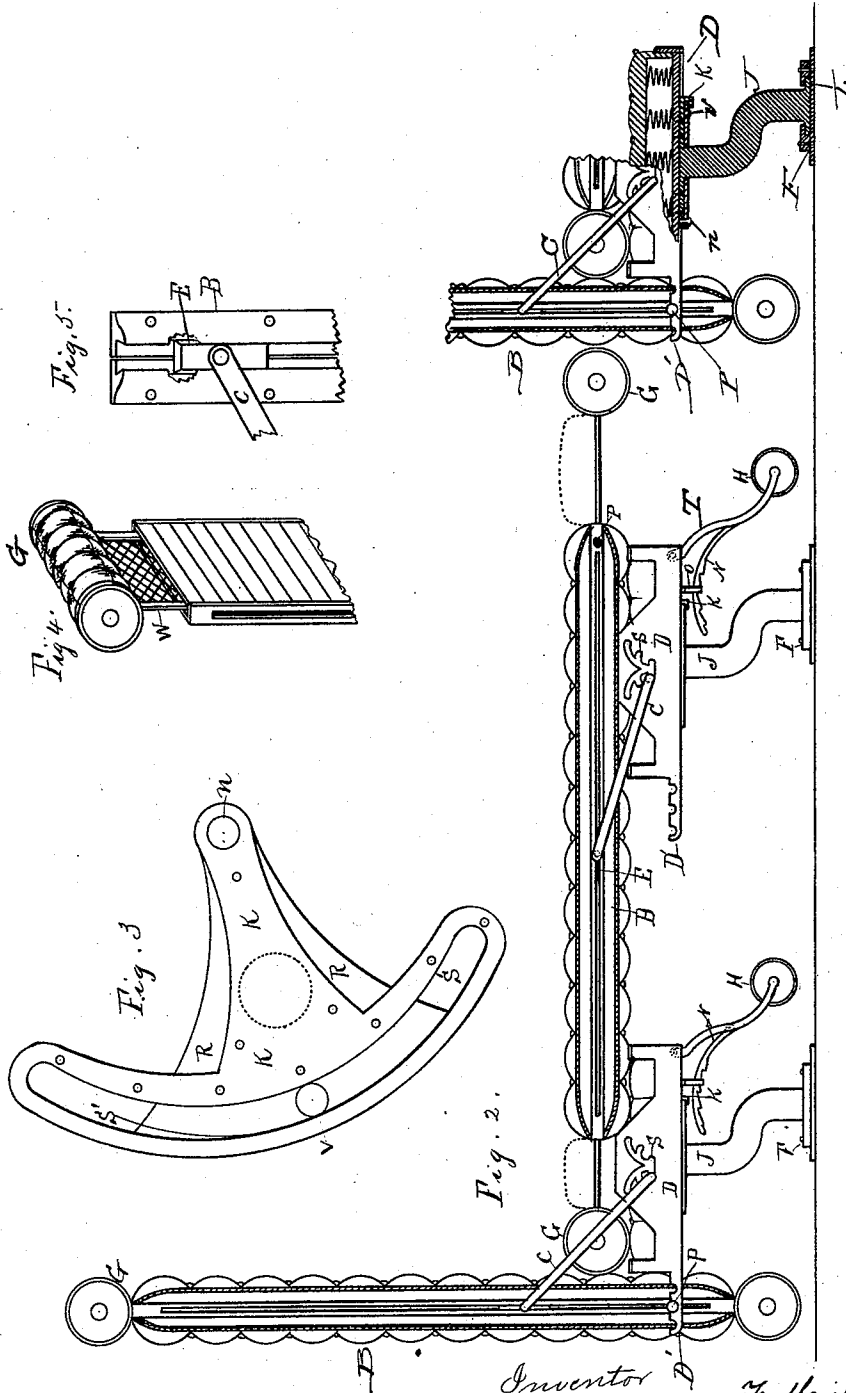
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RECLINING CHAIR.

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UNITED STATES PATENT OFFICE.

WILLIAM F. MILLS, OF MANHATTAN, ILLINOIS, ASSIGNOR TO THE MILLS
ADJUSTABLE PARLOR CAR CHAIR COMPANY.

RECLINING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 434,193, dated August 12, 1890.

Application filed October 10, 1889. Serial No. 326,646. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. MILLS, a citizen of the United States of America, residing at Manhattan, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Reclining-Chairs, of which the following is a specification, reference being had therein to the accompanying drawings, and to the letters of reference thereon, forming a part of this specification, in which—

Figure 1 is a perspective view of the reclining-chair as it would appear in use as an ordinary chair. Fig. 2 is a side elevation of the chair, showing its back folded over on its seat to form a bed, and as it would appear for use in a sleeping-car for forming a bed between two adjacent chairs, whose backs form partitions between the bed thus formed and adjacent beds formed of other similar chairs. Fig. 3 is a plan view of the plates for attaching the chair-bottom to the upper end of the cranked standard supporting the chair. Fig. 4 is a perspective view of an extension-frame of the back for extending its length when the back is folded down for use as a bed; and Fig. 5 is a side view of a section of the side frame of the back, showing its dovetail groove and a slide for sliding in said groove, and the brace for connecting the chair-back with the seat.

This invention relates to certain improvements in reclining-chairs, adapted more especially for use in a sleeping-car and arranged in such manner that its back can be folded down across its seat to form a bed-bottom between two adjacent chairs, and also adapted to be rotatable on its supporting-standard, so as to face in any desired direction when in use as a chair.

Referring to the drawings, the chair-seat D is secured to the segment-plate K, which is pivoted at *n* (see Fig. 3) to a plate R, which is secured to the rotatable cranked supporting-standard J. The plate K is provided with the segment-slot S', through which protrudes the stud V of plate R for limiting the rotation of plate K with the chair within the limits of said slot. The outer side of plate K is formed to hook over plate R for the purpose

of preventing the plates from becoming detached.

The supporting-standard J is cranked and provided on its lower end with an annular flange L, by means of which said standard is rotatably secured to the floor by means of plate F, attached to the floor, as shown particularly in Fig. 1.

D' D' are arms, being an extension of the rear ends of the seat-sides, and may be integral therewith, or secured thereto in any suitable manner. These arms are provided on their upper sides with a series of notches, in which the chair-back B is detachably supported through the medium of the studs P, extending one from either side of the chair-back and resting in one of said notches, as shown in Figs. 1 and 2. The desired inclination of the back B may be attained by resting it in any one of the series of notches when in use for a chair. The chair-back B is also adjustably attached to the sides of the seat by means of the braces *c*. The upper ends of the said braces are pivotally attached to slides E, (shown in detail in Fig. 5,) which slides traverse a groove arranged in the side frames of the chair-back, formed to retain said slides from becoming detached from the chair-back. The lower ends of said braces are provided with inwardly-extending wrists that traverse the slots S in the sides of the chair-bottom, the wrist being formed with a suitable head or any suitable means for retaining it in said slot, and the said slots being formed so as to permit the lower ends of said braces to be adjusted so as to assist in giving the desired inclination to the chair-back. The said braces rest near their central part in hooked rests *r r*, secured, respectively, to the outer sides of the chair-arms A' A' for supporting that part of the braces *c* and for retaining said arms in an upright position when in use as a chair, for the reason that said arms are hinged at *a* so that they may be folded down over the chair-seat when the back is folded down to form a bed-bottom. When the chair is used in a railway-coach, and it is desired to convert it into a reclining-chair or bed-bottom to fill the space between two adjacent similar chairs, the back B is lifted off the arms D' D' and

the braces *c* lifted out of the rests *r*, so that the arms *A'* may be folded down on the seat. The rear lower end of the back is then laid on the top of said folded arms on the seat, and the rear upper end of the back is laid upon the next adjacent chair in the rear, as shown in Fig. 2, to form a bed-bottom between the two adjacent chairs.

The back *B* is provided at either end with an extension *W*, operated in a recess in the frame of the back, for extending the back long enough to form a bed-bottom between the two adjacent chairs. The frame of said extensions is filled with woven wire or canvas, as shown in Fig. 4, for supporting bolsters, as shown in broken lines in Fig. 2, to lengthen out the padding or upholstery of the back when necessary. When used as a chair, these extensions are telescoped into the chair-back out of the way, as shown in Fig. 1.

A foot-rest *H* is attached to the seat-front by means of arms *T T*, pivotally attached to the seat-frame, as shown, and is provided with a ratchet-brace *N*, for engaging the catch *O*, for properly adjusting the height of the said rest.

The object of attaching the chair-rest to the plate *K* is for the purpose of making it possible to face the chair in any direction desired within the limits of the slot *S'* in said plate after the cranked supporting-standard *J* has been rotated to give the chair the location desired. Of course this rotatable adjustment is only made when the device is used as a chair. *Z* is a cuspidor attached to the side of the seat for convenience.

By this construction a very simple, durable, and convenient reclining-chair is made capable of having its back inclined to suit the desire of its occupant; also, made capable of having its location over the floor ad-

justed and faced in any desired direction; also, the chair is rendered capable of being transformed into a bed-bottom between two adjacent similar chairs, the backs of which form partitions or head and foot boards between a series of beds thus formed.

The chair is intended and adapted more particularly for use in railroad-coaches, but may be used as an article of furniture in a house or in any place desired.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is as follows, to wit:

1. The reclining-chair shown and described, consisting of the combination of the seat *D*, having the rearwardly-extending arms *D'*, having notches on their upper side for adjustably supporting the chair-back and having the side slots *S*, the back *B*, having the side slots for the reception of the slides *E* and having the side studs *P*, for supporting and adjusting said back on the arms *D'*, the slides *E*, the braces *c*, for connecting the seat *D* and said slides, and the folding arms *A'*, having the rests *r*, for adjustably supporting said braces, substantially as and for the purpose set forth.

2. In the reclining-chair shown and described, the combination, with the chair-seat *D*, of the plate *K*, secured thereto and having the segment-slot *S'* and the hooked flange on its outer side for attachment to the plate *R*, the plate *R* having the stud *v*, for traversing said slot, and the cranked rotatable standard *J*, secured to plate *R*, substantially as and for the purpose set forth.

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Witnesses:

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