No. 676,383. Patented June 11, 1901.

D. GOODMAN.

ROCKING CHAIR.

(Application filed Jan. 21, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 3.

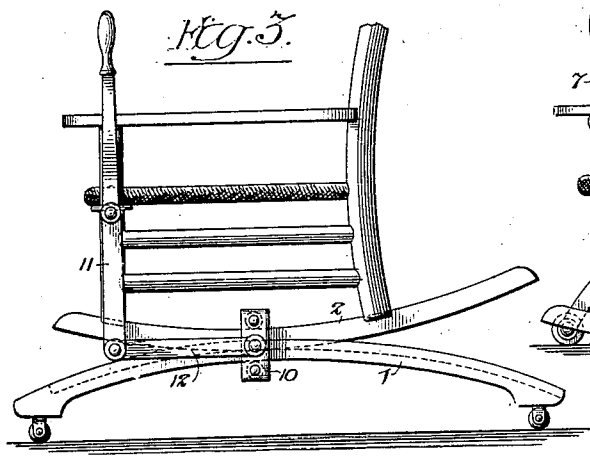


Fig. 4.

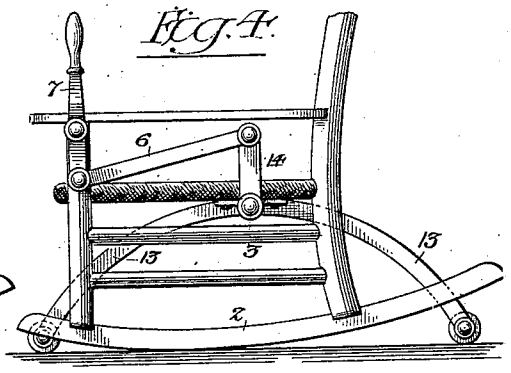


Fig. 1.

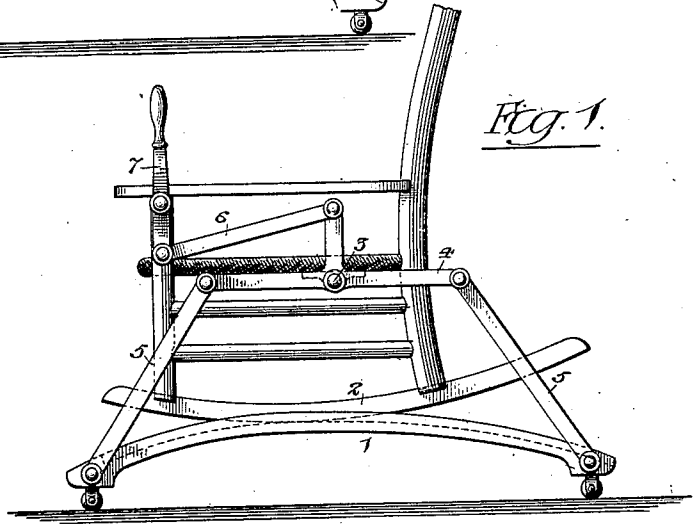
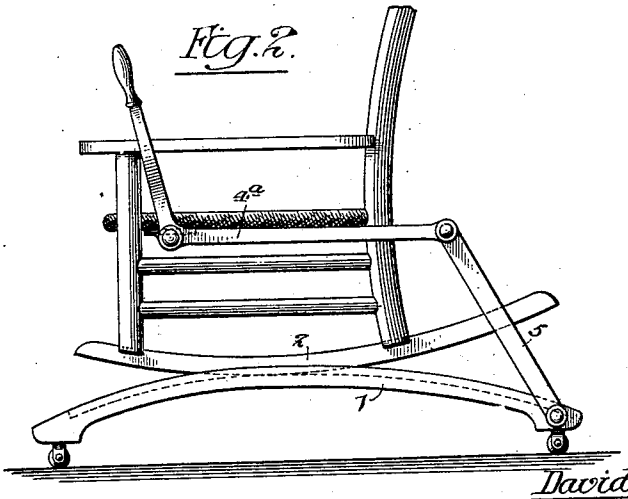


Fig. 2.



Witnesses:-

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Herman E. Mellus.

Inventor:

David Goodman.

by His Attorneys:

Howson & Howson

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 676,383. Patented June 11, 1901.

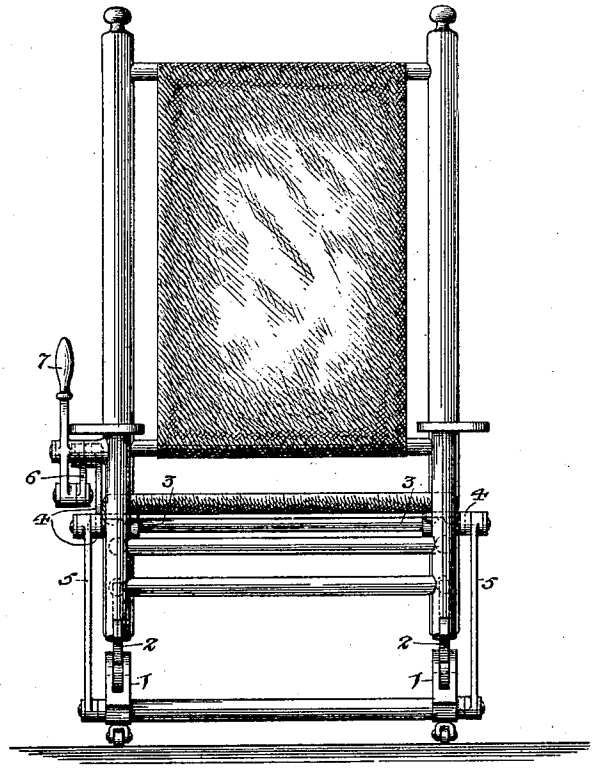
D. GOODMAN.

ROCKING CHAIR.

(Application filed Jan. 21, 1901.)

(No Model.) 2 Sheets—Sheet 2.

Fig. 5.



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UNITED STATES PATENT OFFICE.

DAVID GOODMAN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-FOURTH TO WILLIAM H. SCARGLE, OF SAME PLACE.

ROCKING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 676,383, dated June 11, 1901.

Application filed January 21, 1901. Serial No. 44,091. (No model.)

To all whom it may concern:

Be it known that I, DAVID GOODMAN, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Rocking-Chairs, of which the following is a specification.

The object of my invention is to provide a rocking-chair with hand-operated lever mechanism, whereby said chair may be caused to rock without any action of the feet, so that the rocking of the chair may be effected by the occupant while the feet are supported upon the chair or upon a suitable foot-rest thereon and without any rocking or vibrating movement of the body. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of a rocking-chair with attachment constructed in accordance with my invention. Figs. 2, 3, and 4 are similar views illustrating other forms of attachment embodying my invention; and Fig. 5 is a front view of the chair shown in Fig. 1.

Referring to Fig. 1 of the drawings, 1 represents a fixed base or bed having suitably-spaced rails upon which are supported the rockers 2 of the chair, the latter being constructed in any acceptable manner, as my invention has no reference to the structure of the chair itself, but simply to an attachment whereby the rocking of the chair can be effected by one or both hands.

A transverse rod 3, suitably mounted on the chair, serves as the pivot for a lever 4 at one side of the chair, or, if desired, for a like lever at each side of the chair, this lever 4 having three arms, two of which are connected at their extremities by means of rods or links 5 with one of the rails of the fixed bed, while the third arm of the lever is connected by a link 6 to one arm of a lever 7, pivoted upon the arm or other available portion of the chair structure, the projecting upper portion of this lever being in convenient position to be grasped and operated by the hand of the occupant of the chair. If there is a lever 4 at each side of the chair, the lever 7 and its link connections 6 may also be duplicated, or the pivot-rod 3 may be secured to both levers 4 and may turn in bearings on the chair, so as to serve as a rigid connection between the two levers, in which case only one hand-lever 7 will be necessary, as also when but a single lever 4 is used, in which case said lever may be mounted upon a stud or pin projecting from the chair structure instead of upon a transverse shaft.

The use of the special hand-lever 7 is not in all cases essential. For instance, in the construction shown in Fig. 2 the power is applied to one arm of a lever 4^a, the other arm of which is connected by a link 5 to the fixed rail of the base, and this single-lever arrangement can in like manner be employed at either or both sides of the chair.

In Fig. 3 I have illustrated still another embodiment of my invention in which the rail of the fixed base and the rocker of the chair are acted upon by antifriction-rollers mounted upon a reciprocated block or carriage 10, to which movement is imparted from a lever 11 on the chair through the medium of a connecting-rod 12. The normal position of the block 10 is the central position, (shown in Fig. 3,) but owing to the divergence of the base-rail and rocker movement of said block forwardly or rearwardly from this central position will draw downwardly the portion of the rocker acted upon, the rocker resuming its normal position when the block is again moved to the central position. This construction may also be used upon either or both sides of the chair and in connection either with a single hand-lever or with a hand-lever at each side of the chair.

In Fig. 4 I have illustrated another construction in which the base 1 is dispensed with, the transverse shaft 3 beneath the seat of the chair carrying a pair of curved arms 13, one projecting forwardly and the other rearwardly and each having an antifriction-roller at its lower end, which rollers bear directly upon the floor, the shaft having at one end an arm 14, which is connected by the link 6 to the hand-lever 7. The structure 13 14 thus constitutes the equivalent of the three-armed lever 4.

It will be evident that either of the constructions shown and described provides a simple, cheap, and convenient method whereby the rocking of the chair can be effected

without the use of the feet of the occupant and without any swaying of the body, as in the ordinary manner of rocking a chair, the feet being supported upon the chair or upon a foot-rest thereon and the body being at rest.

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

1. The combination of a rocking-chair with a fixed base having rails for the support of the chair-rockers, a lever mounted upon the chair and having connection with the base and means for vibrating said lever by hand, substantially as specified.

2. The combination of a rocking-chair with a fixed base having rails for the support of the chair-rockers, and a lever hung to the chair and having oppositely-projecting arms, a rod or link connecting each of said arms to the fixed base, and a third arm to which power can be applied by hand in order to effect vibration of the lever, substantially as specified.

3. The combination of a rocking-chair, with a fixed base having rails for the support of the chair-rockers, a three-armed lever hung to said chair, links connecting two of the arms of the lever to the fixed base, a hand-lever also mounted upon the chair, and a link connecting said hand-lever to the third arm of the rocking-lever, substantially as specified.

4. The combination of a rocking-chair with a three-armed lever hung thereto, two of the arms of the lever projecting respectively forwardly and rearwardly from the fulcrum and acting upon the support for the chair, and the third arm projecting upwardly and being provided with means whereby it can be vibrated by hand, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID GOODMAN.

Witnesses:
F. E. BECHTOLD,
JOS. H. KLEIN.