

(No Model.)

E. MÜHL.
REST FOR ROCKING CHAIRS.

No. 426,602.

Patented Apr. 29, 1890.

fig. 1.

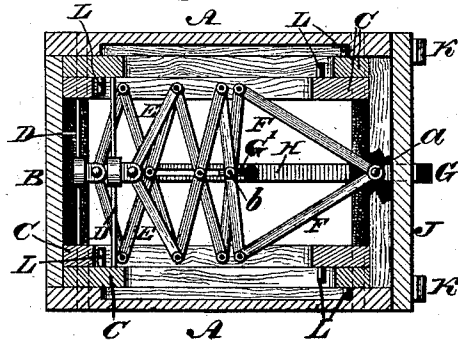


fig. 2.

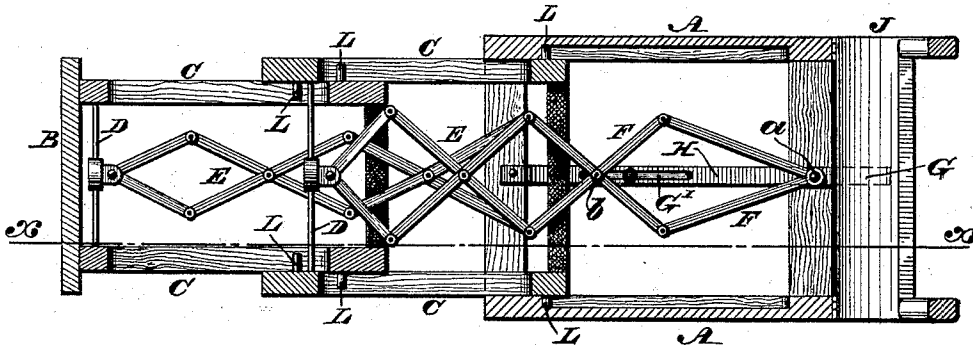
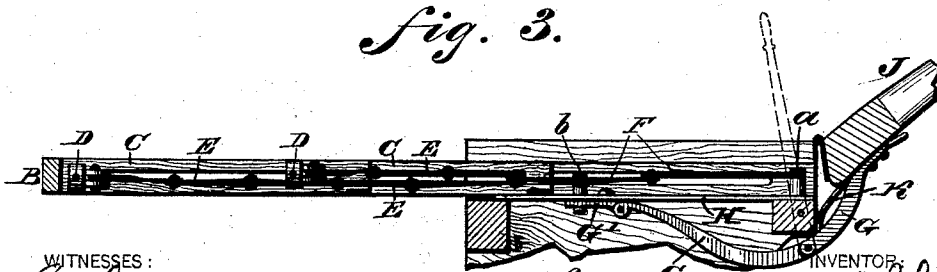


fig. 3.



WITNESSES:

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REST FOR ROCKING-CHAIRS.

SPECIFICATION forming part of Letters Patent No. 426,602, dated April 29, 1890.

Application filed June 11, 1889. Serial No. 313,861. (No model.)

To all whom it may concern:

Be it known that I, ERNST MÜHL, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Foot-Rests for Extension-Chairs, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a foot-rest for a chair, which is movable in opposite directions or placed in operative and inoperative positions by means of jointed levers, as will be hereinafter described and claimed.

Figures 1 and 2 represent a partial top or plan view and a partial horizontal section of a foot-rest embodying my invention. Fig. 3 represents a longitudinal vertical section on line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts in the three figures.

Referring to the drawings, A designates the portion of the frame of a reclining-chair below the seat thereof, and B designates the foot-rest of the chair, the same consisting of two frames C, which are fitted to each other and to the frame A in a manner telescopic, so as to slide one over another, whereby the frames C may be set out from the frame A as the operative position of the foot-rest, or folded together within said frame A when service of the rest is not required. Each frame C is provided with a cross-bar D, with which is connected a series of jointed levers E, the inner ends of which are connected with a series of jointed levers F, the latter being attached to the frame A, as at *a*, said levers operating after the manner of lazy-tongs. Connected with the pivot *b* of the levers F is an arm G, having a section G' hinged or jointed thereto, which has a pin or stud, which is guided in a slotted bar H, secured to the frame A, the rear end of said arm G being also attached to the back J of the chair, whereby as the back is moved as usual in reclining-chairs motions are imparted to the arm G, the same being communicated to the levers F E E, and thus the frames C may be shot forward or outward, as in Fig. 2, or inwardly, as in Fig. 1, the frames thus being in unfolded and folded positions, the operation

in either case being rapidly and easily performed.

When the occupant of the chair leaves the seat thereof, the back may resume its normal or upright position. In order, however, to prevent failure of such action, there is attached to the back and the frame A a spring K, whose pressure is exerted against said back toward the front of the chair.

The frames A C have slots or grooves in their sides to receive pins L, so as to guide the frames C in their sliding motion.

It is evident that the frames C may be multiplied, in which case additional levers E will be employed; but it is evident that the foot-rest may consist of a single frame and set of levers. The two sets of levers E, as shown, are connected with a single set of levers F, so that both sets of levers E may be simultaneously operated by said set of levers F.

In Fig. 3 is shown in dotted lines a lever pivoted to the seat-frame and to the arm G for moving said arm, in which case the arm need not be secured to the back.

The matter shown and described herein relating to telescopic sections and front cross-bars for foot-rests and not claimed herein is reserved, being described, illustrated, and claimed in another application made by me for Letters Patent for improvements in rocking and reclining chairs and lounges, of date April 19, 1889, Serial No. 307,800.

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

1. A foot-rest consisting of sliding frames connected telescopically with each other and the seat-frame, in combination with jointed levers attached to said sliding frames, and jointed levers which are secured to said seat-frame and to said jointed levers of the sliding frames, and means for operating said levers, substantially as described.

2. A sliding frame, in combination with a seat-frame and jointed levers attached to said frames, an arm secured to the back and said levers, and a guide for said arm, substantially as described.

3. The combination of a seat-frame, a slotted bar secured thereto, sliding telescopic frames having jointed levers secured thereto, jointed

levers secured to said seat-frame and to said
jointed levers of the sliding frames, an oscil-
lating arm having a hinged section with stud
working in said slotted bar, and means, sub-
stantially as described, for operating said
5 arm, substantially as described.

4. The combination of a seat-frame with
grooves in its sides, a slotted bar and jointed
levers secured to said frame, a sliding frame
10 with pins working in said grooves and hav-

ing jointed levers secured thereto and to the
jointed levers of the seat-frame, an arm hav-
ing a hinged section with stud working the
slotted bar, and a hinged back to which said
arm is secured, substantially as described.

ERNST MÜHL.

Witnesses:

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