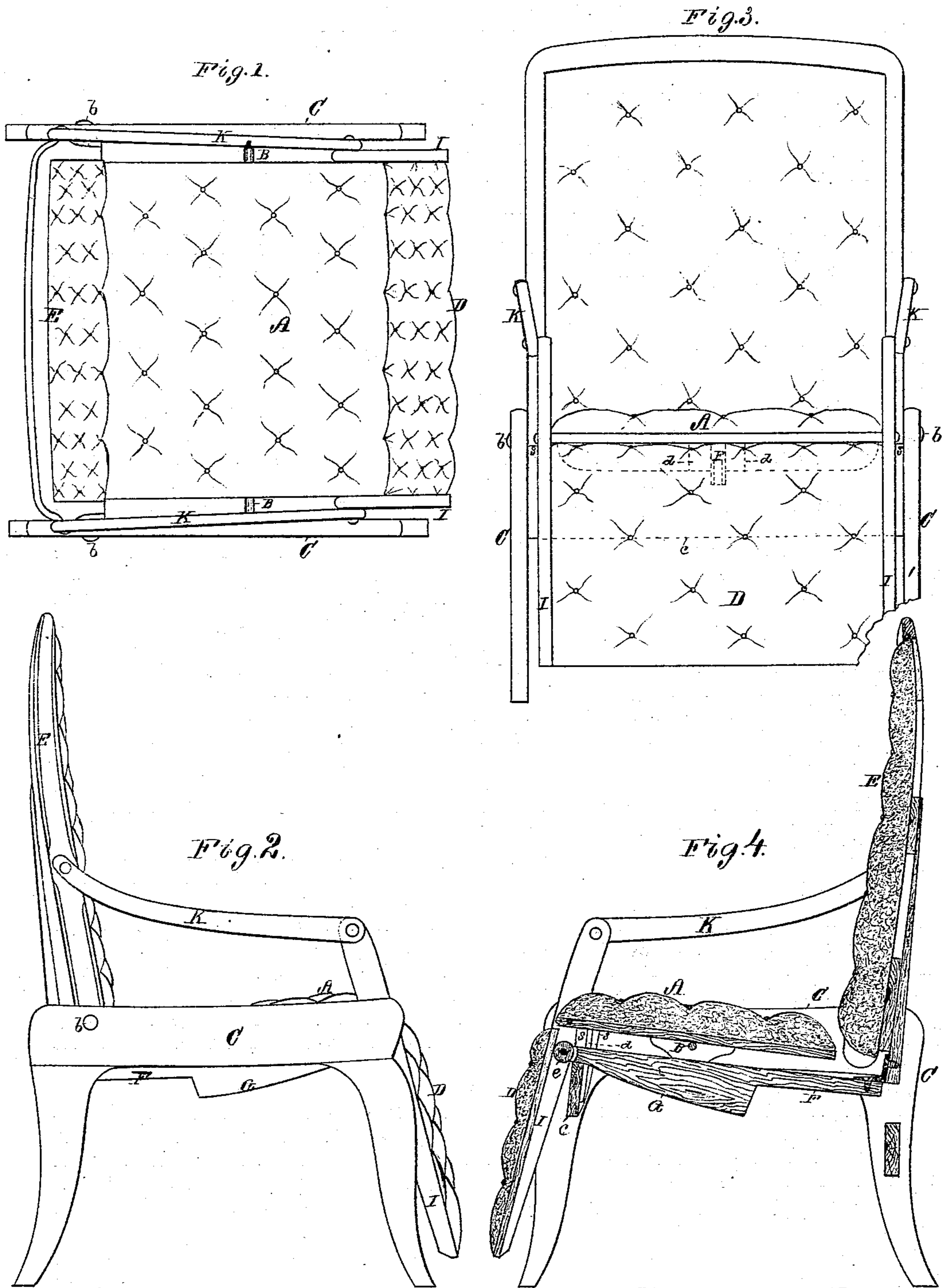


WILLIAM HEATH.  
Improvement in Reclining Chairs.  
No. 123,343. Patented Feb. 6, 1872.



Witnesses.

S. N. Piper

L. N. Möller

William Heath.

by his attorney.

R. W. Hady

# UNITED STATES PATENT OFFICE.

WILLIAM HEATH, OF BATH, MAINE.

## IMPROVEMENT IN RECLINING-CHAIRS.

Specification forming part of Letters Patent No. 123,343, dated February 6, 1872.

*To all persons to whom these presents may come:*

Be it known that I, WILLIAM HEATH, of Bath, of the county of Sagadahoc and State of Maine, have invented a new and useful Improvement in "Reclining-Chairs;" and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a top view; Fig. 2, a side elevation. Fig. 3 is a front elevation; and Fig. 4, a vertical and longitudinal section of a chair provided with or constructed in accordance with my invention.

In this chair the rocker-seat is pivoted to the leg-frame and also to the leg-rest, and the arms or levers of such leg-rest are connected with the back (which is pivoted to the leg-frame) by arm-rests pivoted to the back and the leg-rest, arms, or levers. Furthermore, the leg-frame is provided at each front leg with a shoulder for the front part of the seat to rest on when the seat is horizontal.

From the above it will be seen that the back, while being declined, is caused, through the arm-rest, to raise both the seat and the leg-rest simultaneously together, and also to impart a further additional upward movement to the leg-rest. In other words, the leg-rest not only is caused to rise with the seat, but its levers are turned on their fulcrums so as to effect a further rise of the leg-rest. An additional or further upward motion of the leg-rest may be given to it by means of a bar-cam, friction-roller, and arm, such as are represented in the specification of my patent No. 118,719, dated September 5, 1871, and marked in such patent F, G, e, and H. In the accompanying drawing I have represented all of such parts with the exception of the arm.

In such drawing, A denotes the chair-seat, pivoted at or near the middle of each end of it to the leg-frame e; or it is supported at or near its middle by a rod, B, going across the leg-frame from one side to the other, the seat being so applied to the rod as to be capable of being turned or tipped up and down thereon. At its rear the seat is without any supports; but at its front, when the seat is horizontal or about so, it rests on shoulder-pieces, fixed to the leg-frame on the inside thereof, as shown. The back E is pivoted to the leg-

frame at b b so as to be capable of being declined or moved back. A bar, F, provided with a friction-roller, e, and a cam, G, is shown as hinged or pivoted at its rear end to the back, such being portions of a mechanism, as hereinbefore mentioned, that may be used in effecting an upward movement of the leg-rest. The cam G rests on the front cross-bar or girt c of the leg-frame, and between guides or posts d d extended upward therefrom. The leg-rest, as shown at D, is provided with two arms or levers, I I, which receive between the seat and are pivoted to it. By means of arm-rests K K, pivoted to the said arms or levers, they are connected with the back E, the arm-rests being pivoted to the back, and all being arranged as shown. In the chair described in the aforementioned patent the leg-rest I and the parts marked I' were not connected, as they are in my present chair, but are separately pivoted to the leg-frame, so as to move independently of each other. In my present chair they always move together while being moved in either direction, and they move with the seat, although being together movable independently of it.

My present construction of chair is productive of advantages over the other, as referred to, as in this chair, by a person throwing his weight upon the seat so as to depress its rear and raise its front, he can simultaneously raise the leg-frame with the seat so as to maintain their next adjacent edges at a uniform distance asunder, the angle of the seat and leg-frame being varied by the movement of the back.

I claim—

In the "reclining-chair," as described, the seat A as pivoted to the leg-frame C, and also at or near its front to the leg-rest D or its arms or levers I I, and such leg-rest D as connected with the back E by such arms or levers I I and by arm-rests K K pivoted both to the back E and to the leg-rest, arms, or levers I I, all being arranged and to operate substantially as described and represented.

WILLIAM HEATH.

Witnesses:

G. M. ADAMS,  
I. G. CONLEY.