F. B. WERSEL, Jr.

AUTOMATIC RECLINING CHAIR BACK.

APPLICATION FILED APR. 14, 1910.

960,607.

Patented June 7, 1910.

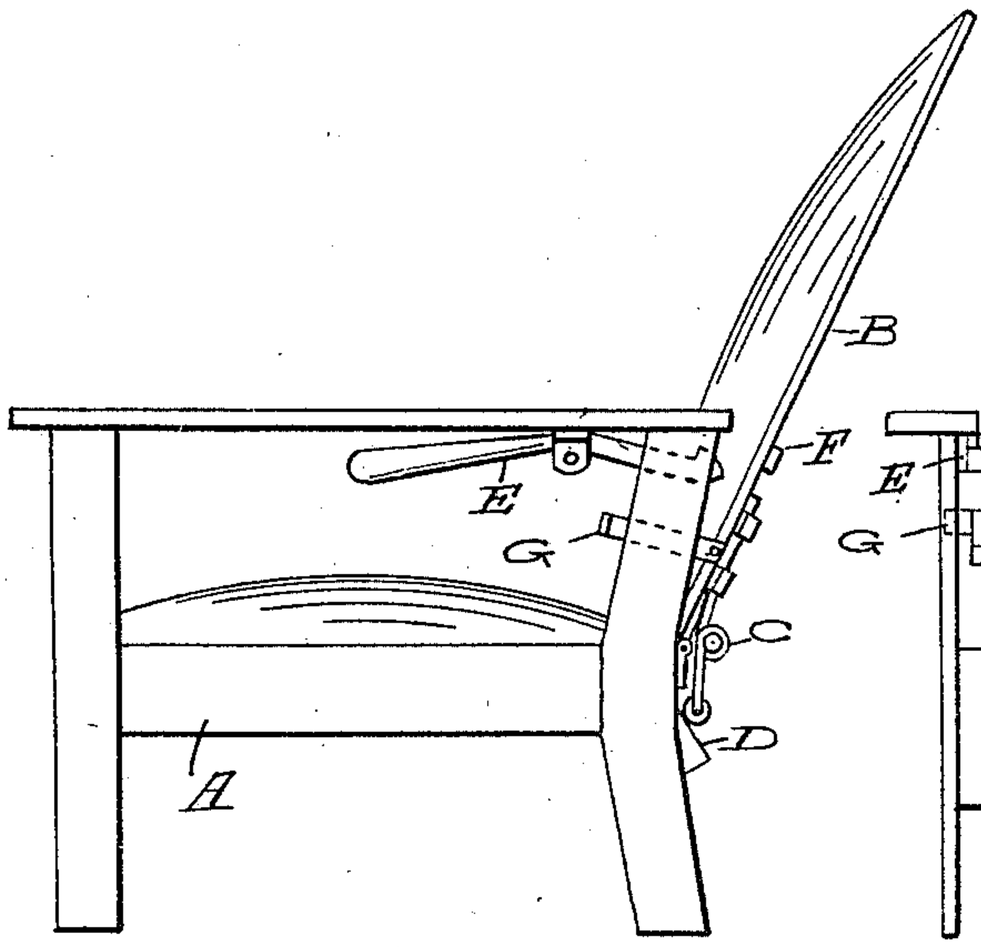

Fig. 1.

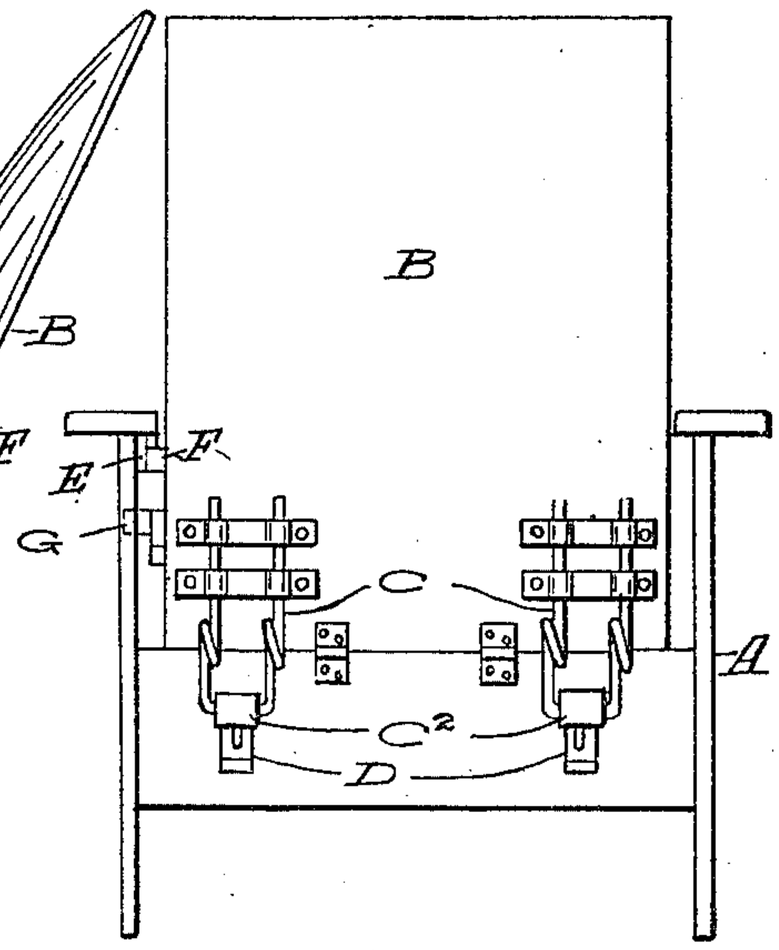

Fig. 2.

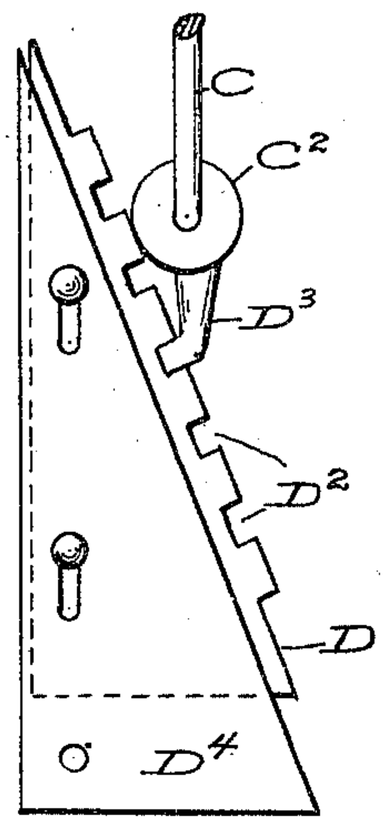

Fig. 3.

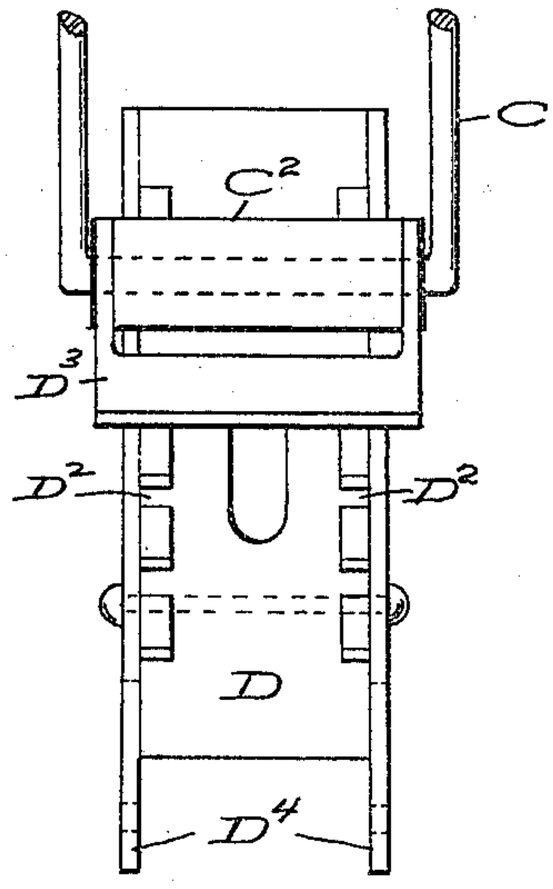

Fig. 4.

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UNITED STATES PATENT OFFICE.

FRANK BERNARD WERSEL, JR., OF MOUNT LOOKOUT, OHIO.

AUTOMATIC RECLINING-CHAIR BACK.

960,607. Specification of Letters Patent. **Patented June 7, 1910.**

Application filed April 14, 1910. Serial No. 555,469.

To all whom it may concern:

Be it known that I, FRANK BERNARD WERSEL, Jr., a citizen of the United States of America, and resident of 3439 Linwood avenue, Mount Lookout, in the county of Hamilton and State of Ohio, post-office address Nos. 1104 to 1112 Kenner street, Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in an Automatic Reclining-Chair Back; and I do hereby declear the following to be a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification.

My invention relates to an automatic reclining chair back and it has for its object the improvement in construction of such devices whereby they are simplified and rendered more efficient in action.

The novelty of my invention consists in the combination and sub-combination of the parts as will be hereinafter set forth and specifically pointed out in the claim.

Figure 1 is a side elevation of my automatic reclining chair back. Fig. 2 is a rear elevation. Fig. 3 is a side elevation of a modified form of the wedge. Fig. 4 is a front elevation of the modified form of the wedge.

Similar letters of reference indicate corresponding parts in the several figures of the drawings.

A represents the frame of the chair, B the back, C the springs attached to the back, C^2 a roller connected to the lower end of the spring C, and D is an incline having an oblong hole for a screw, secured to the back of the frame A, against which the roller C^2 works. A latch E is pivoted to the under side of the arm of the frame A, in which a lug F connected with the back B catches when the chair back is held in one position.

G is a stop for limiting the backward inclination of the back B.

In the modified forms of the incline, D, are notches D^2, in which a pawl D^3 catches. Incline plates D^4 are attached to the sides of the incline D which can be raised and lowered so as to prevent the pawl from catching in the notches D^2 when raised and allow the roller C^2, to roll up and down on the incline of the plates but when the plates are lowered the pawl catches in the notches holding the back in that position.

The operation of my automatic reclining chair back is as follows. When the lug F is freed from the latch E the roller C^2, rolls over the incline D. As the roller rolls down over the incline the pressure of the spring C is increased thereby causing the back B, to give a greater resistance to being forced back. The spring and incline can be so adjusted as to suit any one sitting in the chair.

Having described my invention what I claim is—

An automatic reclining chair back, hinged to the seat portion, the pressure upon the back determining the inclination of the back, springs attached to the back, the lower end of the springs provided with rollers, the rollers playing against an incline, the position of the roller, on the incline determining the resistance of the back to pressure, all substantially as described.

FRANK BERNARD WERSEL, JR.

Witnesses:
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