

RECLINING CHAIRS.

Patented Feb. 6, 1877.

Fig. 2

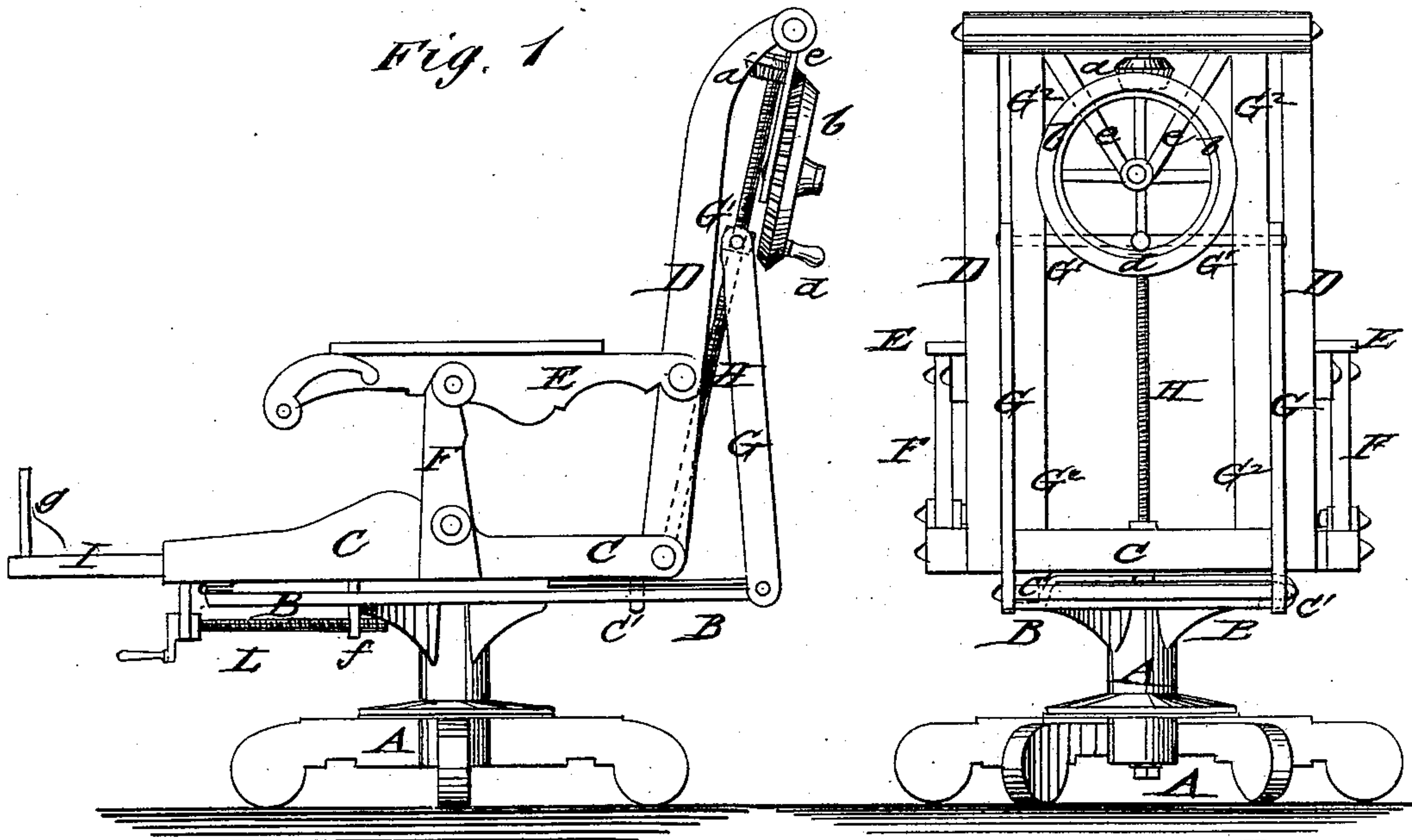
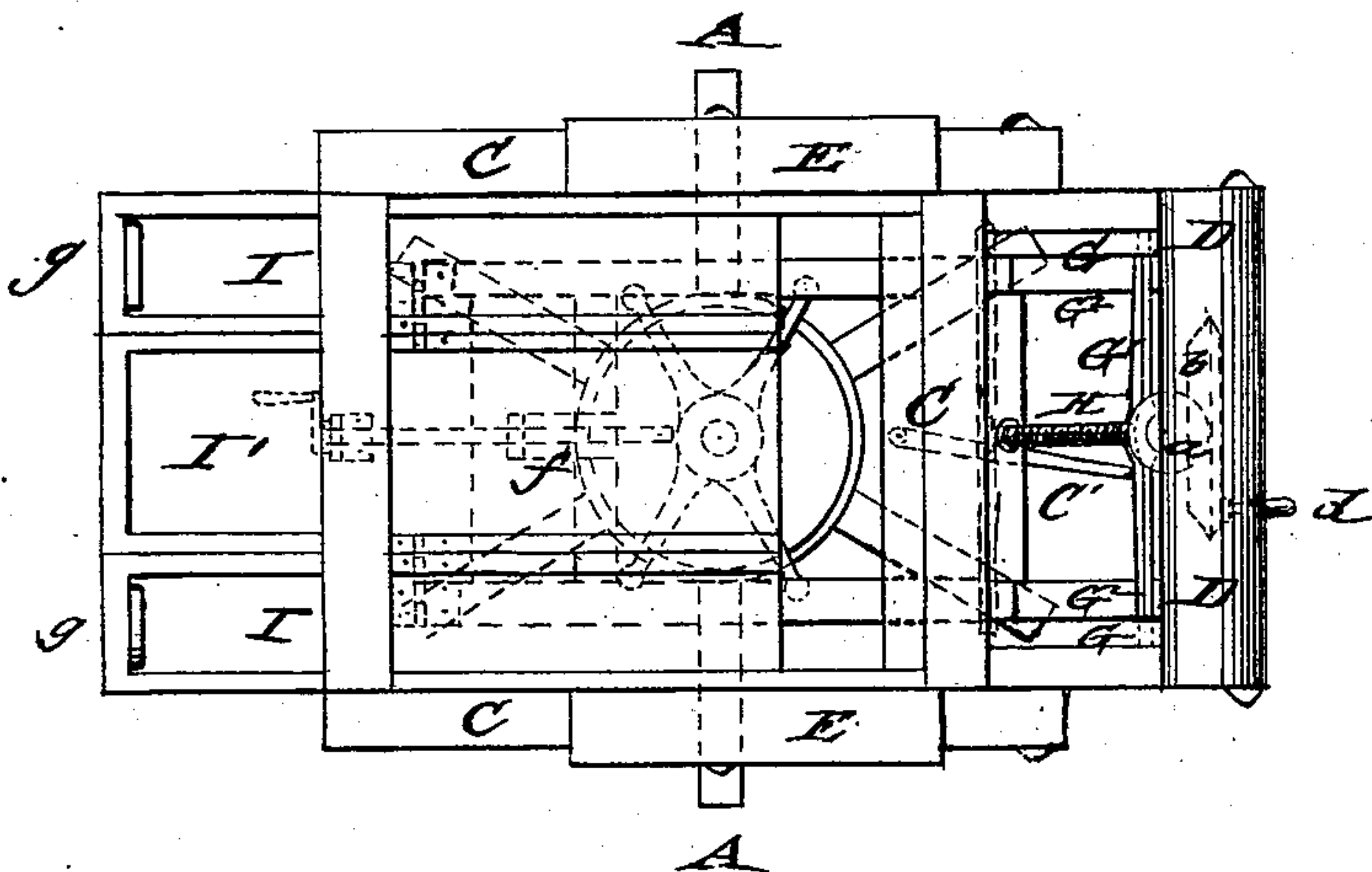


Fig. 3



C. J. Newcomer
 John Goethals.

INVENTOR :

INVENTOR:
J. Roy
BY
Munnell

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH ROY, OF MONTREAL, QUEBEC, CANADA.

IMPROVEMENT IN RECLINING-CHAIRS.

Specification forming part of Letters Patent No. **186,957**, dated February 6, 1877; application filed July 11, 1876.

To all whom it may concern:

Be it known that I, JOSEPH ROY, of Montreal, in the Province of Quebec and Dominion of Canada, have invented a new and Improved Chair, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation, Fig. 2 a rear elevation, and Fig. 3 a plan view, of my improved chair.

Similar letters of reference indicate corresponding parts.

My invention has reference to an adjustable chair for barbers', dentists', physicians', and other uses, in which the seat and back may be readily adjusted to any suitable inclination, approaching a horizontal or vertical position, by a simple operating mechanism at the back of the chair; and the invention consists of a seat hinged to the pivoted base-section, and raised or lowered by pivoted lever-arms, that connect the base with the back, and set the same jointly with the seat and pivoted arms, by a suitable gear-wheel and screw mechanism, to any height or position.

In the drawing, A represents the foot or base support of the chair, which is made strong enough, and with as many feet as may be required to prevent the tilting of the chair in whatever position the same may be turned. A base-frame, B, is pivoted to the upright posts of the foot A, so as to turn thereon in any required direction. The seat C is hinged to the front end of base-frame B, and further secured to the same by a lateral clamping device, C', that admits, when released from the base-frame, the raising of the seat to any suitable angle of inclination to the base-frame. The back D is pivoted to the seat, the arms E and supports F of the same being also pivoted to each other and to the seat and back, to admit the joint adjustment of the seat and back, or the separate adjustment of the back, when the seat is retained in horizontal position by the locking or clamping device C'. The rear end of the base-frame B is connected by pivoted lever-arms G with the ends of a lateral brace-piece, G¹, that traverses up and down on a central longitudinal screw-bolt, H, turning in top and bottom bearings of the

back D. The lever-arms G and brace-piece G¹ are guided in their motion by the side pieces of the back of the chair and longitudinal guide-pieces G², attached a short distance from the side pieces of the back.

Traversing motion is imparted to the brace-piece G¹ by means of a bevel-pinion, *a*, keyed to the upper end of the screw-bolt H, and a conical gear-wheel, *b*, with hand-crank *d*, the gear-wheel turning in bearings of a supporting-frame, *e*, attached to the top part of the back. By turning the gear-wheel *b* in either direction, the screw-bolt is revolved, and thereby the brace-piece G¹ and lever-arms G carried up or down, as required, for setting the chairs.

The back assumes a vertical direction by moving the brace-piece in downward direction on the screw-bolt, and takes up a backward-inclined direction by moving the brace-piece and levers in upward direction on the bolt. The adjusting gear-wheels are readily handled, as they are at convenient height for being worked by the hand.

The seat C is provided with longitudinally-sliding pieces I, that are connected at the rear end by a lateral brace-piece, having a fixed screw-nut, *f*, with a crank-screw, L, that turns in the same, and in suitable bearings at the front part of the seat. By turning the crank-screw in one direction, the sliding pieces I are moved forward, so as to form extensions of the seat at both sides. By turning the crank in opposite direction they are moved back into the seat-frame, and stored away within the same.

Pivoted foot-rests *g* are applied to the front ends of the slide-pieces I, to be swung up when the same are extended from the seat. The foot-rests give the person occupying the chair a support in the different positions to which the same is adjusted. The flexible connection of seat and back admits the adjustment, either of back alone, or of back and seat jointly, according as the person occupying the chair has to assume a sitting or lying position, the required inclination being readily imparted by the gear-wheel and lever mechanism of the back, so that the chair forms a convenient and not too expensive

chair for the purposes mentioned. Between the sliding foot-pieces is arranged a sliding drawer, I', for the storage of different articles.

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

1. In an adjustable chair, the combination of a pivoted base-frame with a hinged seat-section and a locking or clamping device, by which the seat may be locked to or released from the base-frame, substantially as set forth.

2. In an adjustable chair, the combination of the pivoted base-frame and pivoted rear lever-arms with the hinged seat and swinging back and arms, and with an adjusting-screw and gear-wheel mechanism to adjust the seat and back jointly to any inclination, substantially in the manner and for the purpose set forth.

3. The combination of the base-frame, hinged seat, and clamping device, with the swinging back, lever-arms, and adjusting mechanism to adjust the back while the seat is retained in horizontal position, substantially as specified.

4. The combination of the swinging lever-arms of the base-frame with the back section of the chair, having guide-pieces, and with the lateral traversing piece, revolving screw-bolt, pinion, and crank-wheel, substantially as set forth.

JOSEPH ROY.

Witnesses:

A. DUBORD,
LOUIS LARIVE.