

No. 668,125.

Patented Feb. 12, 1901.

W. M. BOENNING.
CHAIR.

(Application filed Aug. 17, 1900.)

(No Model.)

2 Sheets—Sheet 1.

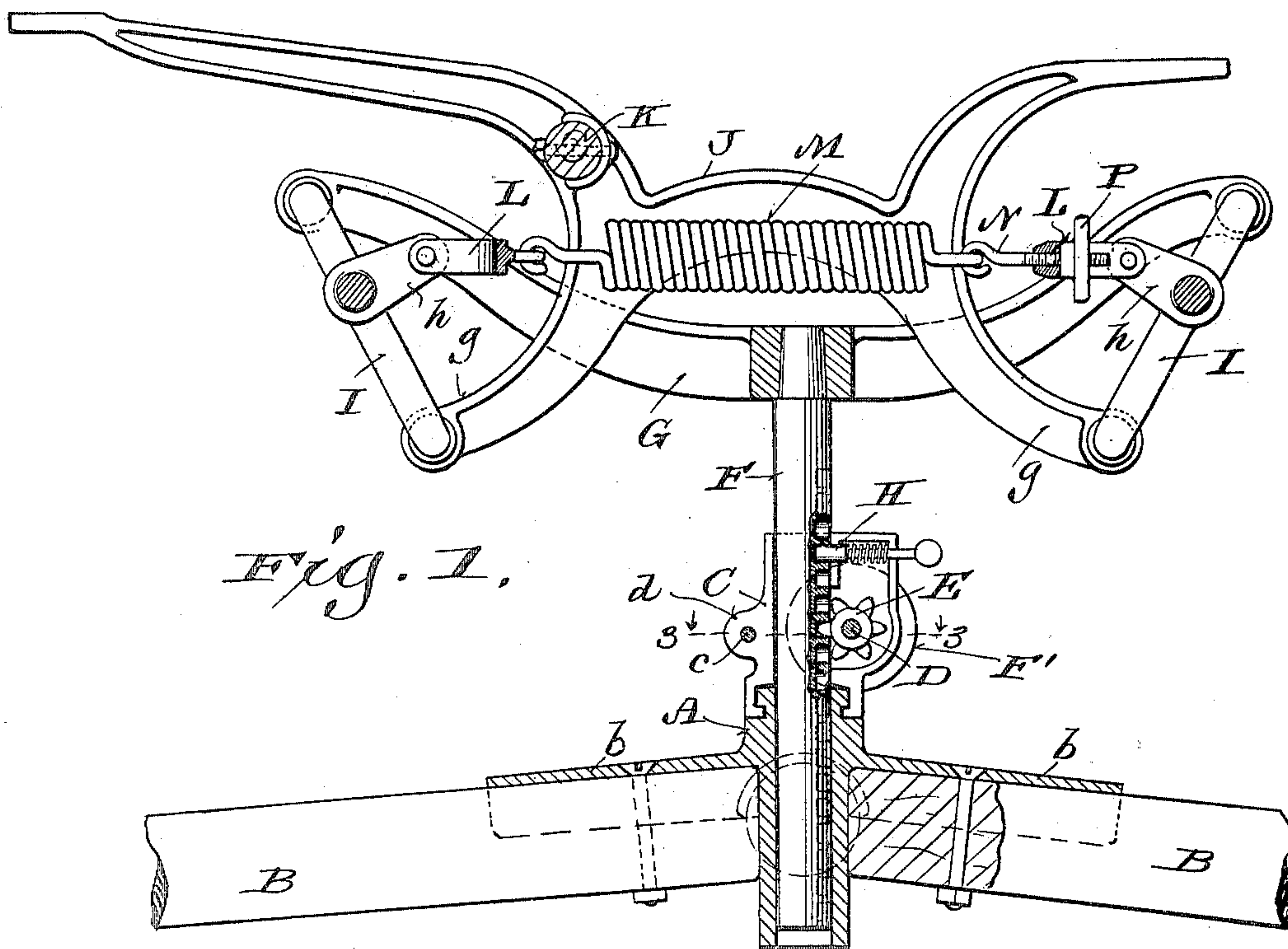
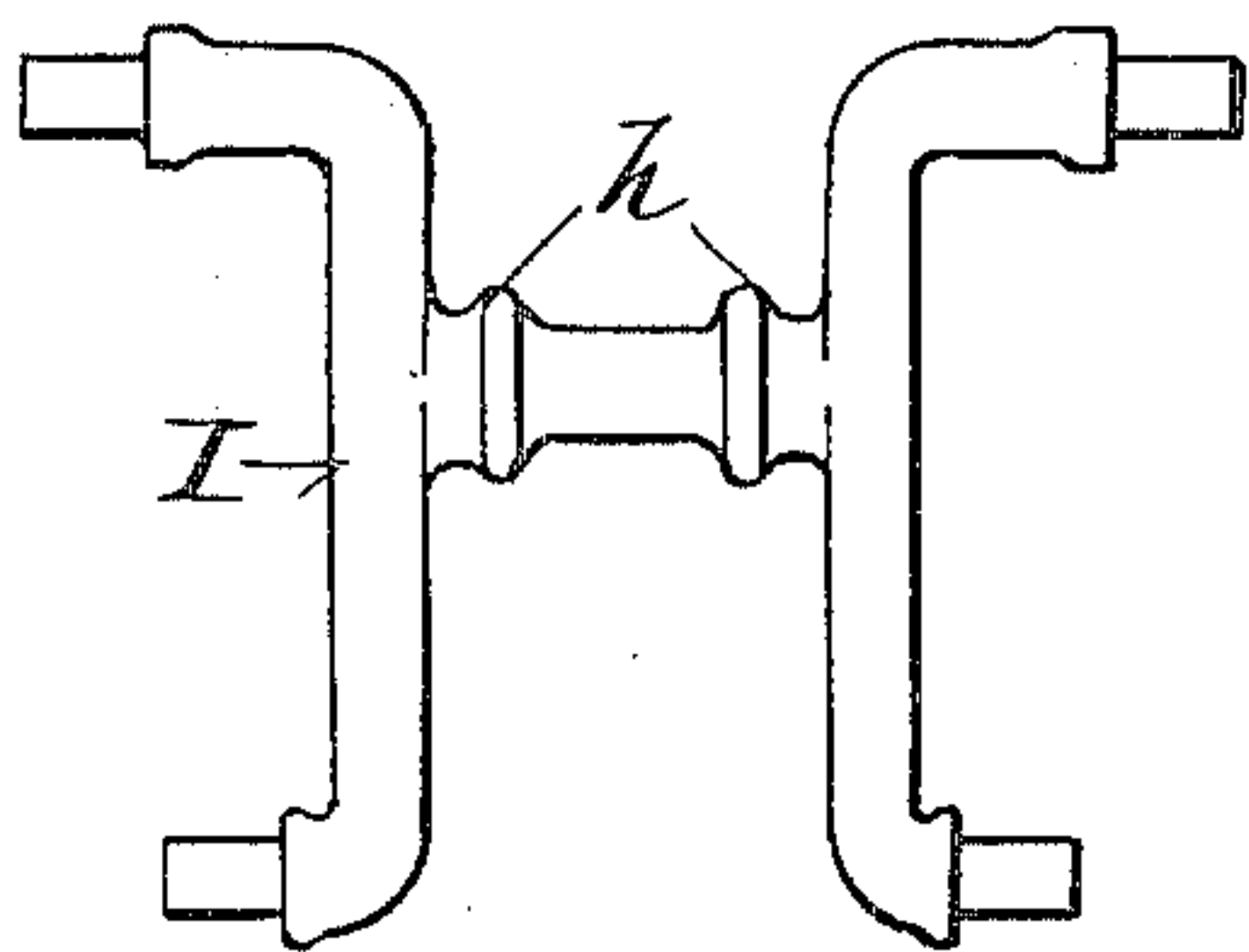


Fig. 2.



Witnesses:
Geo. W. Young
N. E. Oliphant

Inventor
Wm. M. Boenning.
By H. G. Underwood.
Attorney

No. 668,125.

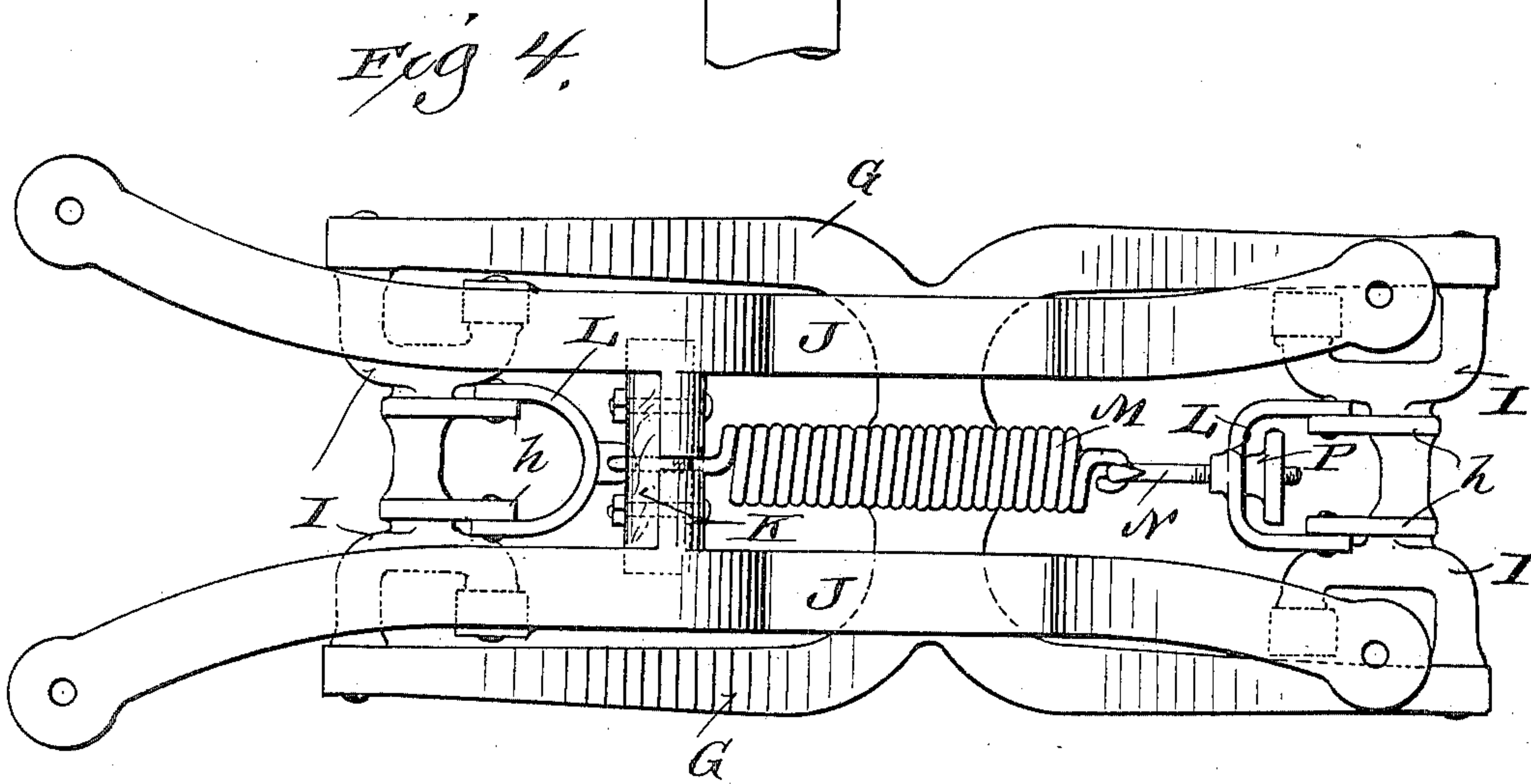
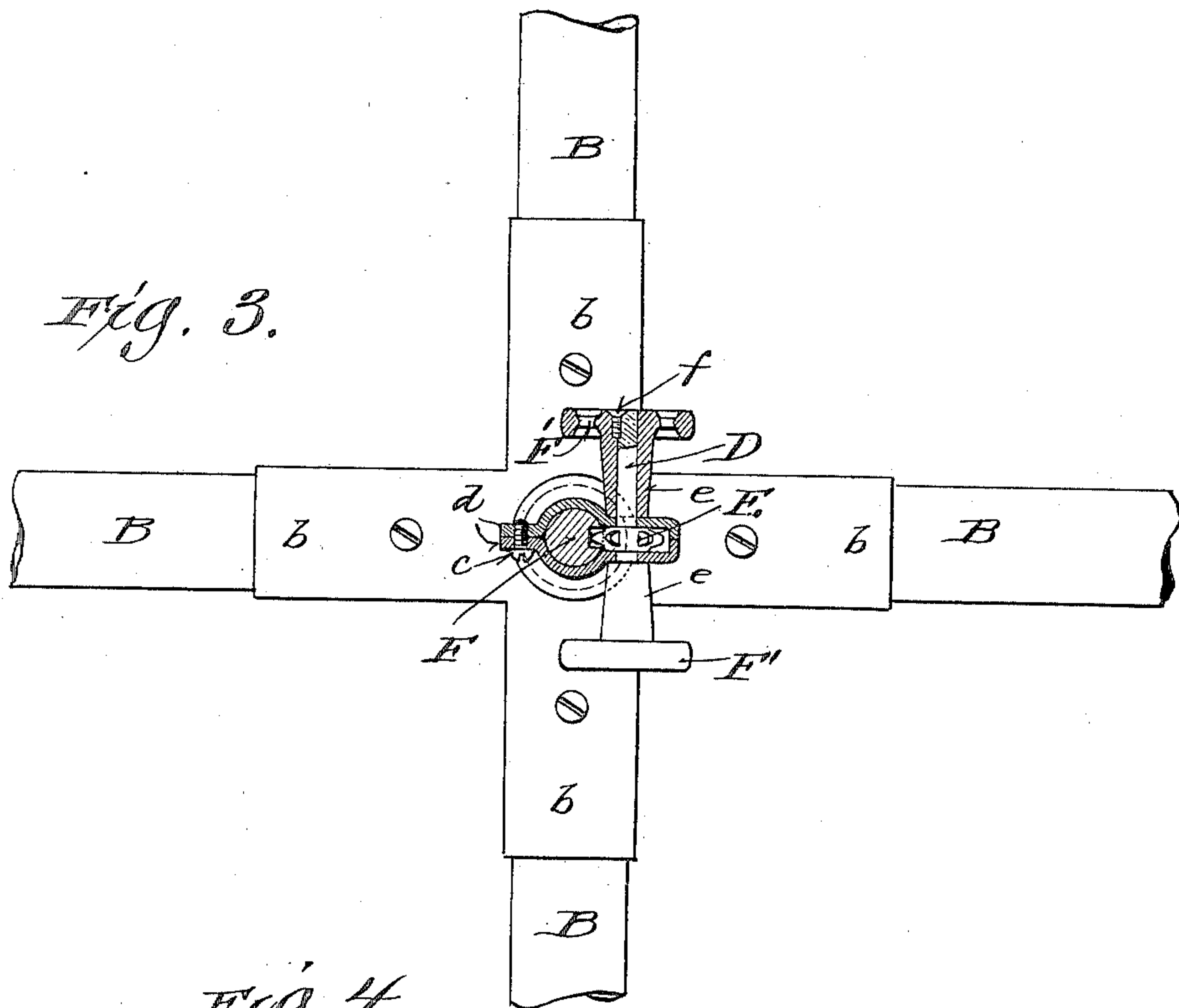
Patented Feb. 12, 1901.

W. M. BOENNING,
CHAIR.

(No Model.)

(Application filed Aug. 17, 1900.)

2 Sheets—Sheet 2.



Witnesses:
Geo. W. Young
H. E. Oliphant

Wm. M. Boenning
By H. G. Underwood,
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM M. BOENNING, OF PORT WASHINGTON, WISCONSIN.

CHAIR.

SPECIFICATION forming part of Letters Patent No. 668,125, dated February 12, 1901.

Application filed August 17, 1900. Serial No. 27,128. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. BOENNING, a citizen of the United States, and a resident of Port Washington, in the county of Ozaukee and State of Wisconsin, have invented certain new and useful Improvements in Chairs; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide simple economical chairs having vertically-adjustable swing-rocker pivot-seats; and it consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents an elevation of my improved chair mechanism, partly in section; Fig. 2, a detail elevation of a swing-rocker constituting part of said mechanism; Fig. 3, a detail plan view, partly in section, on line 3 3 in the first figure of the series; and Fig. 4, a plan view of the aforesaid mechanism.

Referring by letter to the drawings, I show a base-casting in the form of a smooth-bore sleeve A, having inclined radially-disposed wings b, made to fit a corresponding series of wooden legs B, to which they are bolted or otherwise rigidly connected. The upper end of the sleeve projecting above the wings is reduced and annularly grooved to engage with the inwardly-flanged lower ends of sections C, constituting a two-part housing, that has its support on said sleeve. A rivet or screw c engages ears d of the housing-sections to hold these sections together, and said sections are provided with bearings for a spindle D of a spur-pinion E, incased by said housing. The hubs e of hand-wheels F', fast on the spindle D, abut the exterior of the housing and aid in holding its sections together. Each hand-wheel hub may be made to slip on the spindle and a set-screw f employed to hold said wheel in working position, as shown in Fig. 3, this construction facilitating the taking apart of the chair mechanism herein set forth.

Loose in the separable housing and its supporting-sleeve A is post F, depending from a spider G, with which it has rigid connection, and a portion of this post is made to constitute a rack, with which the pinion E

has mesh, said post being held in vertically-adjusted position by a spring-controlled belt H, loose in said housing.

Swing-rockers I connect arms of spider G with depending arms g of a pair of parallel brackets J, bolted or otherwise made fast to a spacing-block K, and yokes L are in pivotal connection with lug branches h of said rockers. Each of the rockers has a pair of links joined by a spacer rigid therewith, as best shown in Fig. 2. A spiral spring M has hook connection with a lug of one of the yokes and similar connection with a rod N, engaging the opposite yoke, a nut P being run on the screw-threaded outer end of the rod against the corresponding yoke to regulate tension of the spring.

The ends of the parallel brackets are provided with apertures for screws by which the frame of a chair-seat is made fast to said arms, and from what is herein shown and described it will be readily understood that the chair-seat is not only vertically adjustable in practice, but capable of pivotal swing and easy rocking motion at the pleasure of the occupant.

While the housing herein set forth has free rotary motion on the central sleeve, it is obvious that the engagement of the groove of said sleeve by the flange of said housing will prevent separation of the aforesaid housing and parts in connection therewith from the aforesaid sleeve when the chair is lifted by its seat.

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

The combination of a spider, means for supporting the spider, parallel chair-seat brackets, swing-rockers connecting said spider and brackets, each rocker comprising a pair of links, a spacer therewith, and lug branches, yokes in pivotal connection with the lug branches of the rockers, and a spring in adjustable tension connection with the yokes.

In testimony that I claim the foregoing I have hereunto set my hand, at Port Washington, in the county of Ozaukee and State of Wisconsin, in the presence of two witnesses.

WILLIAM M. BOENNING.

Witnesses:

A. A. FARMER,
A. ACKERMANN.