

T. NOONAN.
BARBERS' CHAIR.

No. 176,672.

Patented April 25, 1876

Fig. 1.

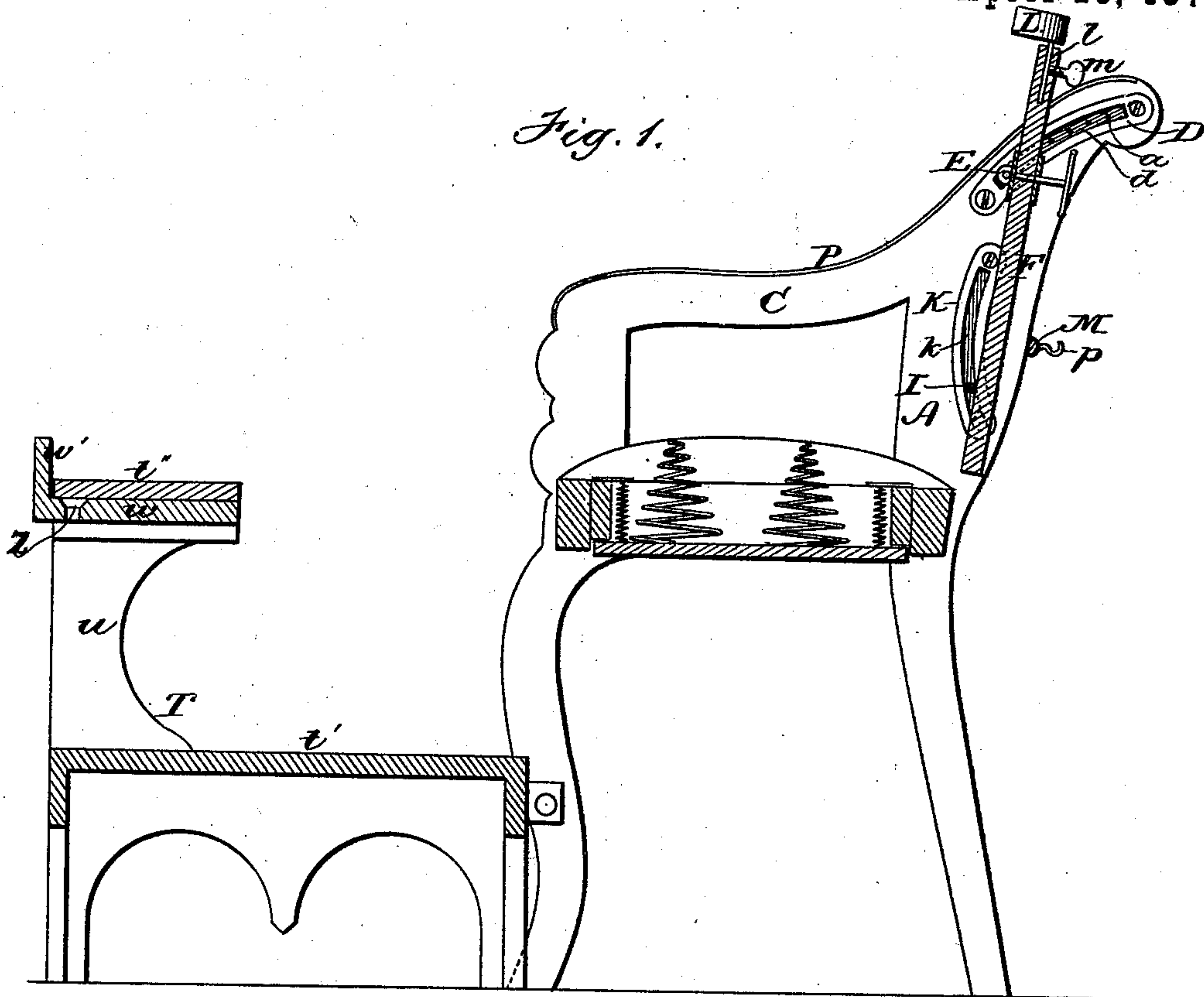


Fig. 3.

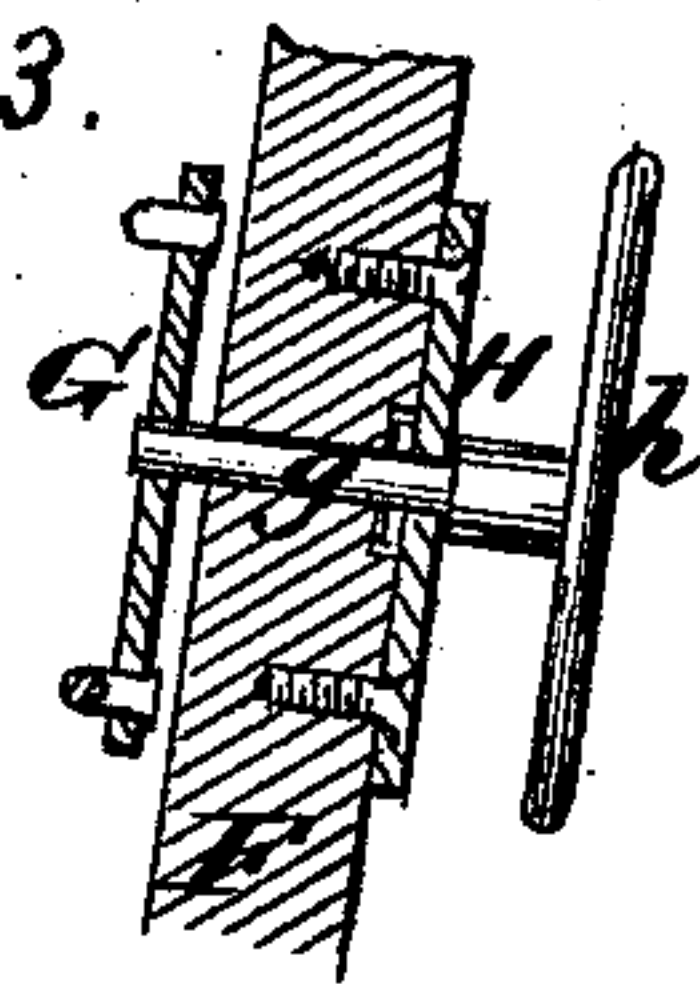
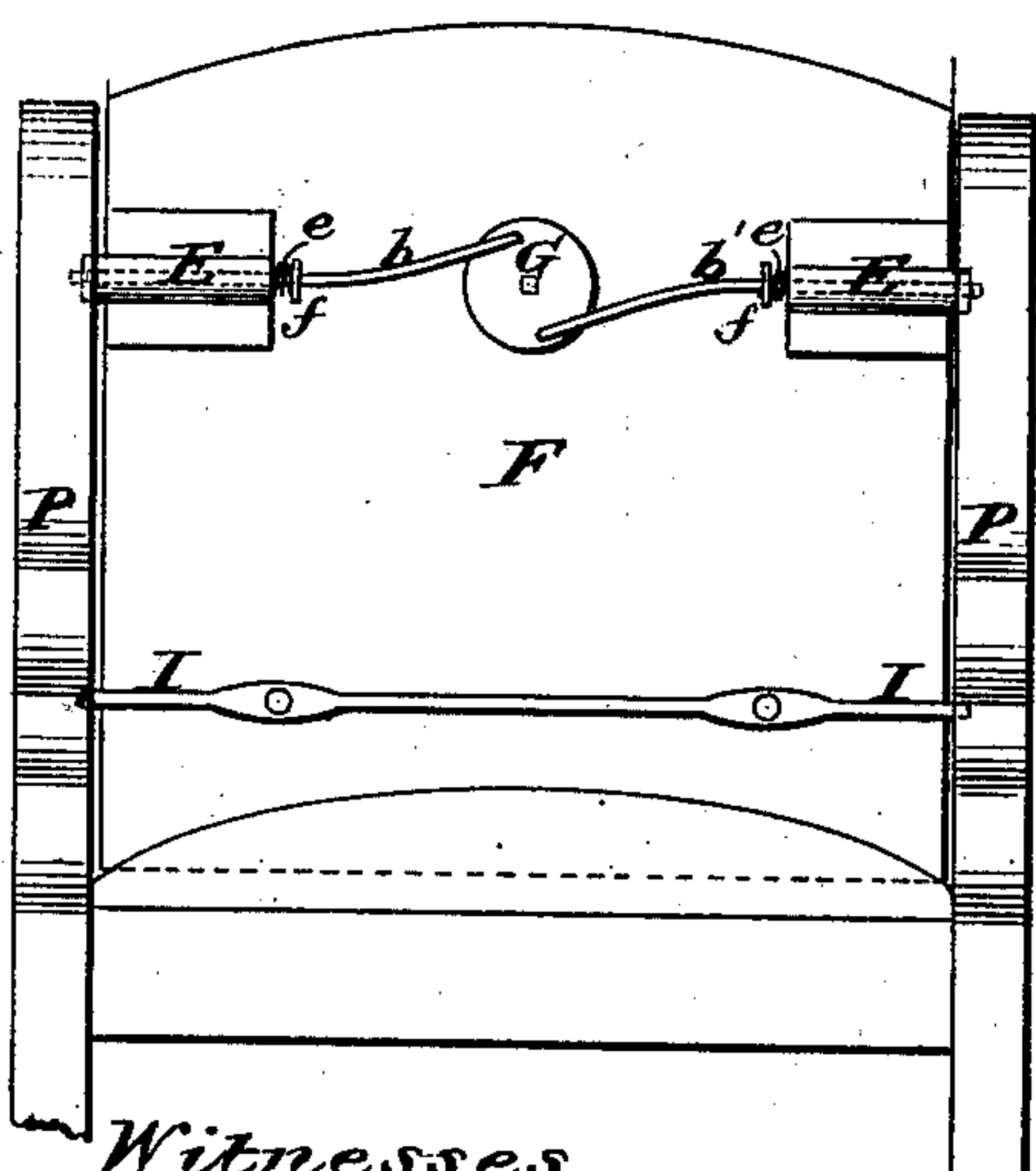


Fig. 2.



Witnesses.
A. E. Denison
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Inventor
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by his Attys
C. D. Wright & Brown

UNITED STATES PATENT OFFICE.

TIMOTHY NOONAN, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF
AND M. R. GATELY.

IMPROVEMENT IN BARBERS' CHAIRS.

Specification forming part of Letters Patent No. **176,672**, dated April 25, 1876; application filed
June 8, 1875.

To all whom it may concern:

Be it known that I, TIMOTHY NOONAN, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Chairs, of which the following is a specification:

In the accompanying drawings, forming a part of this specification, Figure 1 represents a sectional view of my invention, showing the chair-back without its upholstery. Fig. 2 is a front view of the chair, showing the back without its upholstery; Fig. 3, a detail view in section.

This invention relates particularly to that class of adjustable chairs used by barbers and dentists, although it may be readily adapted to chairs of other description; its object being mainly to provide, by simple, economical, and effective means, a ready and convenient method of so arranging the chair as to provide for the ease and comfort of different occupants, and to enable the operator to perform his work in the most convenient manner.

To this end my invention consists in the hereinafter-described means for adjusting the back of a chair with respect to height and inclination, and holding said back at any desired angle or height, all of which I will now proceed to describe, and point out in my claim.

In the drawings, A represents the chair-frame, the sides or arms C of which are properly curved on the top, or otherwise shaped to extend upward at the back. The inside of each arm in its upper portion is provided with a segmental slot or way, *d*, preferably formed in a metal plate, D, which is suitably attached to the chair-frame. Each of the slots *d* is provided with a series of notches or apertures, *a*, adapted to receive the ends of spring latches or bolts *b b'*, which operate through holders or guides E, attached to the chair-back F. The guides E are attached one on each side of the front of the chair-back F, and extend beyond the sides of the back, so as to engage with, and travel in, the slots or grooves *d*. The latches *b b'* are, near their outer ends, formed each with a collar or shoulder, against which abuts the outer end of a coiled spring, *e*, contained within each of the guides E. The inner ends of these springs *e* abut against

suitable stop-pieces *f*, projecting at right angles from the front of the chair-back. The latches or rods *b b'* extend through the stop-pieces *f* toward the center of the chair-back, where they are connected to a disk or other suitable turning-plate, G, on opposite sides of the pivot thereof, the disk G being connected with a stem, *g*, which is turned by a suitable handle, *h*, projecting from the rear of the back F, the turning of the disk G simultaneously disconnecting the latches *b b'* from the apertures in the slots or ways *d d*, the springs *e* serving to shoot the latches into the apertures *a*, and hold the back in any position required when the handle is released. To prevent friction and wear on the chair-back F, the stem *g* is journaled in a plate, H, on the back of a chair-back, in such manner as to be prevented from having any longitudinal play, and the disk G is secured by the stem *g* at a little distance from the front of a chair-back, as shown in Fig. 3, thus allowing the inner disk G to be operated without wearing against the back F. The lower portion of the back F is guided by lugs I I, which may be made in one piece, attached to the face of the chair-back, beyond which they extend on either side, so as to engage with segmental slots *k*, formed in metal plates K, screwed or otherwise attached to the inner sides of the chair-frame below the slots *d*; or the plates K may be dispensed with and the lugs I be engaged to travel in a groove made in the wood-work of the chair.

The plates D and K are so located and their slots are so curved as to permit the proper elevation, depression, and inclination of the chair-back.

It will be readily seen that by turning the handle *h* the latches or bolts *b b'* are simultaneously freed from the apertures *a*, thus allowing the back F to be raised or lowered and inclined backward more or less, while the release of the handle allows the bolts or rods to be forced into the apertures by the action of the springs *e*, thus confining the back in the desired position. The guides E and lugs I, traveling respectively in the curved grooves or slots, serve to guide the back during its adjustment, and to hold it in proper position.

The devices are simple and inexpensive,

and the operation of adjusting the back is readily and conveniently performed, with less trouble and inconvenience than by the ordinary methods, the height and inclination being varied simultaneously.

I claim as my invention—

The combination of the chair-frame A, having the segmental slots *d d* and *k k*, the former having orifices *a*, with the back F, having the

guides E, latches *b b'*, and lugs I, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

TIMOTHY NOONAN.

Witnesses:

SAML. M. BARTON,
C. F. BROWN.