

H. PARRY.
Tilting-Chair.

No. 199,857.

Patented Jan. 29, 1878.

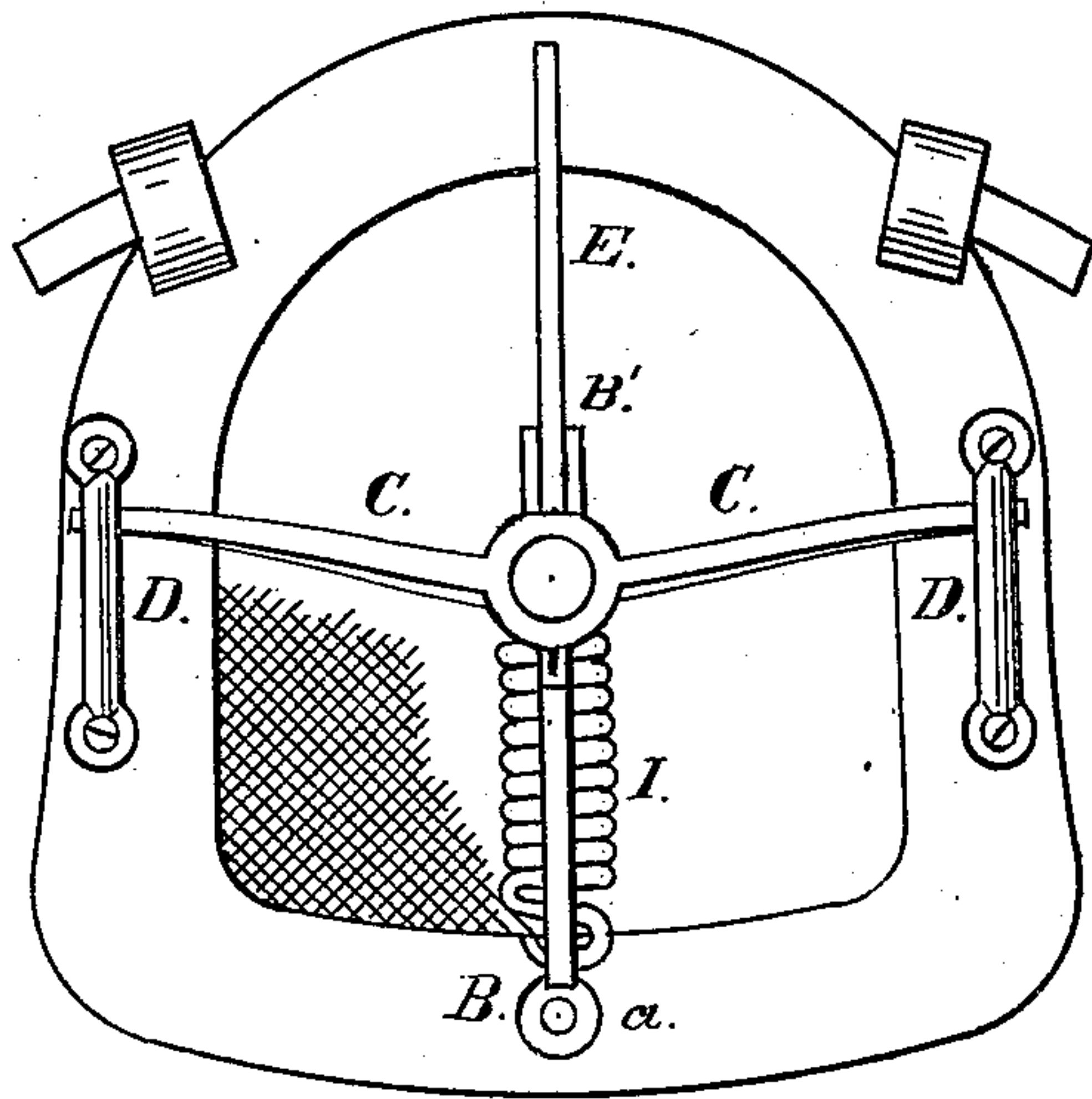


Fig. 1.

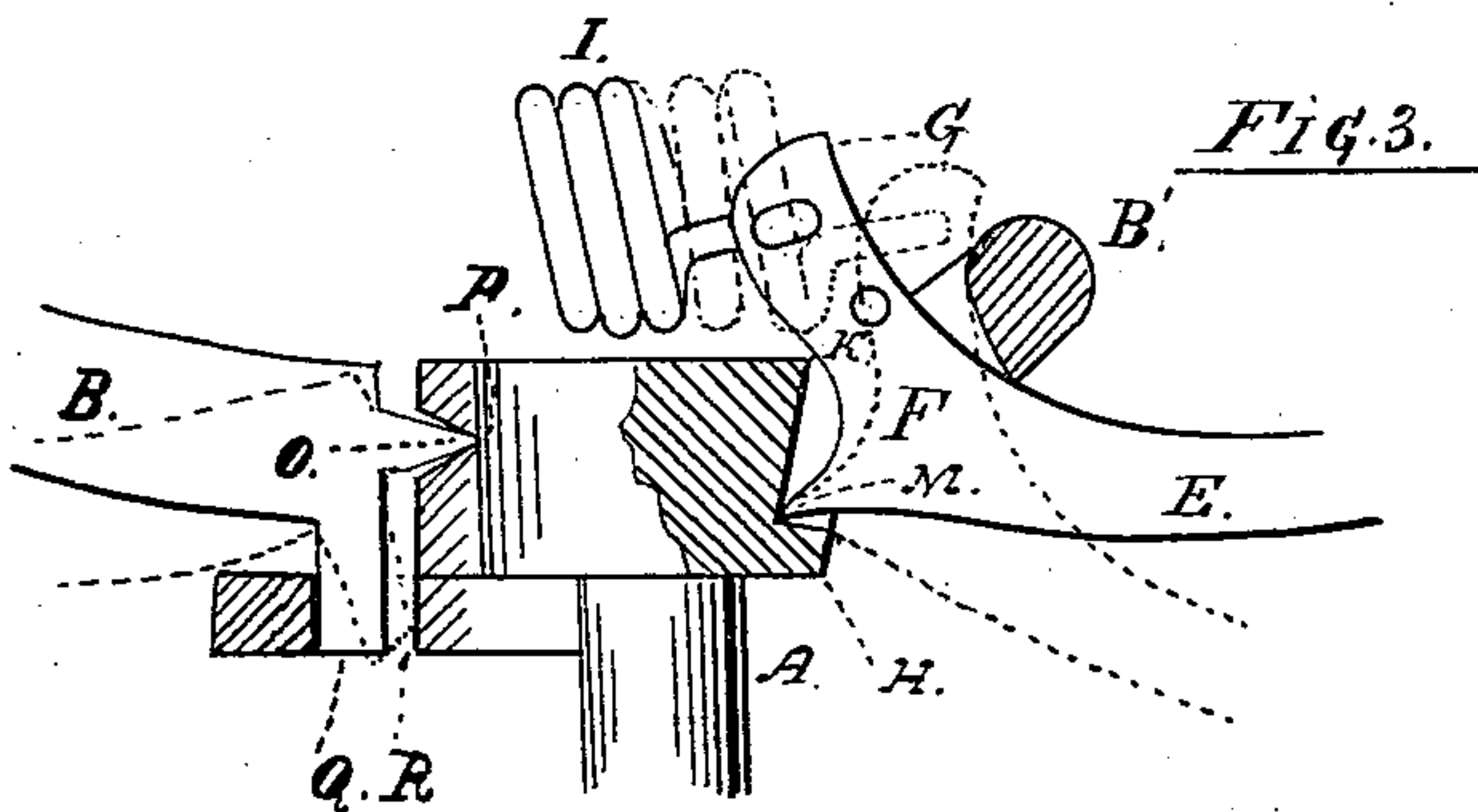


Fig. 3.

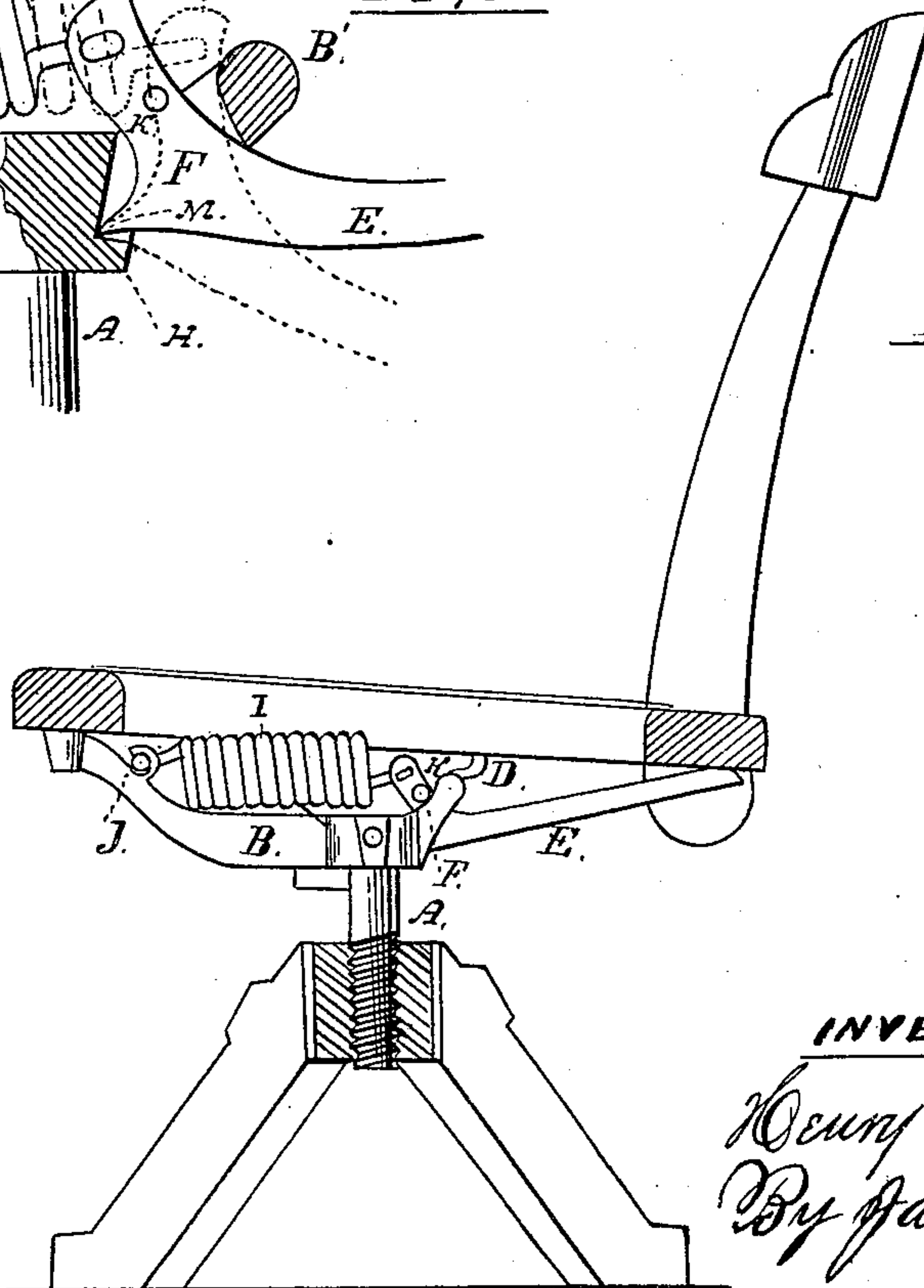


Fig. 2.

WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY PARRY, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN TILTING-CHAIRS.

Specification forming part of Letters Patent No. **199,857**, dated January 29, 1878; application filed May 29, 1877.

To all whom it may concern:

Be it known that I, HENRY PARRY, of the city of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Tilting-Chairs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 of the accompanying drawings represents a bottom view of my invention. Fig. 2 is a side view. Fig. 3 is a sectional view of the same.

My invention relates to improvements in tilting-chairs, or a device by which the tilting of the chair is facilitated. It also has reference to the means for locking the seat, so as to render it rigid when it is desired to avoid tilting.

In the accompanying drawings, A represents the swivel of the chair, which is provided with arms B, B', and C, which support the seat. The arms C are attached to the seat by means of brackets D, while the arm B rests simply against the bottom of the seat. The back part of the seat is supported by the tilting-lever E. The arm B' is provided with a socket, F, through which the short arm G of the lever projects. There is a shoulder, H, in the socket F, which serves as a fulcrum to the lever E, and upon which it oscillates upward and downward with the rocking motion of the seat.

The lever E is retained in the socket and against the bottom of the seat by the spiral spring I, which is connected with the short arm G of the lever and the arm B, which is provided with a hook, J, for the purpose. When it is desired to prevent the chair from tilting backward a pin is inserted through the hole K in the lever E, which prevents the lever E from inclining downward, and thus retains the seat in a rigid position.

The oscillation of the seat is limited in its backward movement, and the strain upon the spring checked, by the contact of the arm G with the upper edge of the socket.

The arms C, which are attached to the center of the chair-bottom, are inclined backward, so that the center of oscillation is brought directly over the fulcrum H and the projecting elbow M of the lever, by which arrangement the seat is oscillated with the arm E, and the point of their contact remains unchanged. Consequently there is no chafing of the lever against the bottom of the chair.

The arm B is provided with a projecting point, O, which rests in the notch P, and a short arm, Q, which reciprocates or vibrates from front to rear in the slot R as the seat is inclined forward from a horizontal position. When restored again to a horizontal position, the arm Q strikes against the front end of the slot, and thus arrests the upward movement of the lever B.

It is obvious that by this arrangement the spring I acts upon both the lever E and arm B, slightly resisting the downward pressure upon them, and restoring them again to a horizontal position when released, whereby an easy rocking motion may be produced by the occupant, both forward and backward, either in front or behind the center of oscillation.

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

1. In combination with the swivel A, the arm B, provided with hook J, spring I, arm Q, arranged to operate in the slot R, and projecting point O, arranged to operate in the notch P, substantially as and for the purpose specified.

2. The swivel A, provided with arm B', in which there is a socket, F, and shoulder or fulcrum H, in combination with the lever E and spring I, substantially as and for the purpose specified.

3. The lever E, as combined with the arm B', provided with a hole and pin, by which they are locked in a rigid position, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

HENRY PARRY.

Witnesses:

SAMUEL MOLE,
K. SHAUVAN.