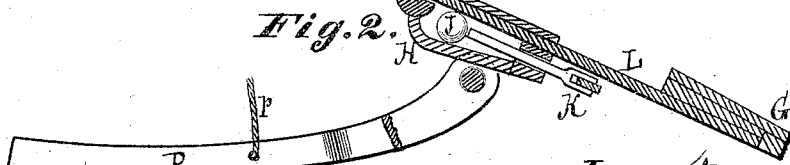
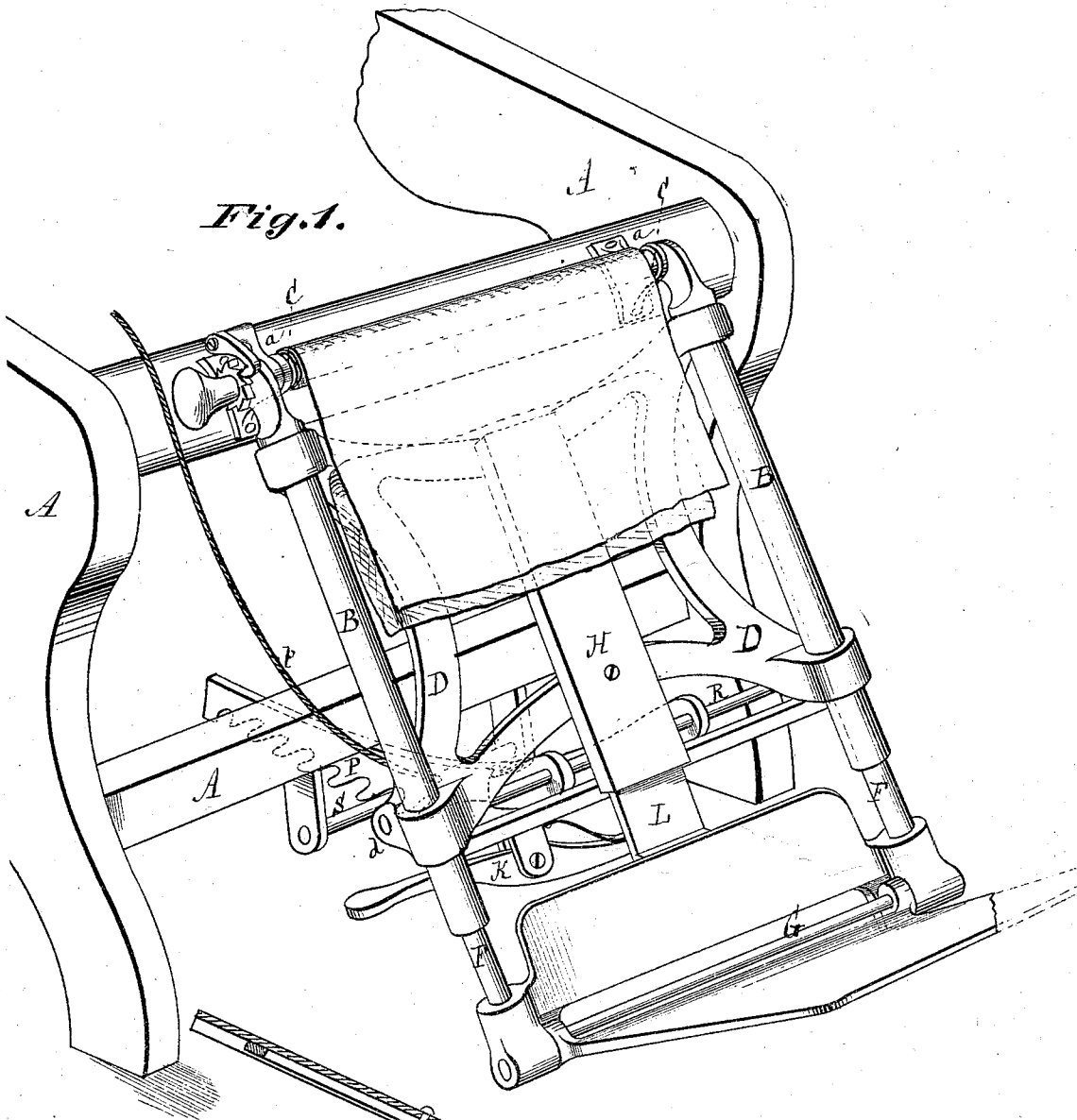


E. COLLINS.

Foot-Rests for Chairs.

No. 134,733.

Patented Jan. 14, 1873.



Witnesses
H. L. Perrine
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UNITED STATES PATENT OFFICE.

EDWARD COLLINS, OF NEW YORK, N. Y.

IMPROVEMENT IN FOOT-RESTS FOR CHAIRS.

Specification forming part of Letters Patent No. 134,733, dated January 14, 1873.

To all whom it may concern:

Be it known that I, EDWARD COLLINS, of the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Foot-RESTS for Chairs, Car-Seats, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, sufficient to enable those skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing making part of this specification and to the letters and figures marked thereon.

My invention relates to an adjustable foot-rest designed more particularly for railroad-car seats, but which may be readily applied to chairs of every description. My invention consists in a foot-rest made in two parts, sliding one within the other, which may be adjusted as to length by means of a lever and a ball working in a tapering chamber, or by means of an apron extending from the lower portion to the upper portion of the frame-work and passing around a roller. The invention further consists in the devices by which the foot-rest may be adjusted to different angles of inclination.

In the accompanying drawing, Figure 1 is a perspective view of my invention; and Fig. 2 is a side view, partly in section.

A represents a portion of a chair or car seat, to the front portion of which are attached two perforated lugs, *a a*. B B represent two tubes, made of iron or other suitable metal, having their upper ends perforated. These tubes B B are secured together, in the position shown, by passing through eyes formed in the four corners of a quadrangular frame, D, which may be made of wood or metal. C is an iron rod, which passes through the lugs *a a* and the perforated upper ends of the tubes B B, and thus hinges them together. Between the lugs may be a roller surrounding the rod C, and on one end of said rod is a knob, crank, or wheel for turning it, and a pawl and ratchet for holding it at any desired point. F F are two iron rods, the lower ends of which are secured in sockets attached to the foot-board G. The upper portions of the rods slide freely in the tubes B B. Attached to the quadrangular frame D is a chamber or casing, H, in which

is a ball, J, operated by a lever, K. Attached to the foot-board G is a tongue or strip, L, which passes up through the chamber H in such a manner that the ball J will continually press upon it when not held up by the lever K, the chamber H being smaller at the lower portion than the upper.

When it is desired to lengthen out the foot-rest, by pressing down the long arm of the lever K the ball J will be raised to the upper and larger portion of the chamber H, allowing the lower part of the foot-rest to descend by its own weight. When it is desired to shorten it, the lower portion is simply pushed up to the desired point, when the ball will become wedged between the strip L and the lower side of the chamber, and thus hold the parts in position.

If desired, the chamber, ball, and lever may be dispensed with, and the foot-rest lengthened and shortened by means of an apron, M, the lower end of which is buttoned to the lower part of the foot-rest, on or near the foot-board G, and the upper end is attached to the roller on the rod C, so that when the apron is wound around the roller it shortens the foot-rest, and when unwound it allows the lower part to descend by its own weight. By means of the pawl and ratchet it is held at any desired point. The apron has a cushion placed between it and the frame-work, and forms a comfortable resting place for the limbs of the person seated in the chair.

For adjusting the foot-rest at different angles of inclination, I employ a bar, P, which is pivoted to the under side of the foot-rest by means of a rod, R, the ends of which are secured in eyes *d* formed on the under side of the frame D, which bar P has formed on one edge notches or ratchet-teeth, which engage with a staple or bar, S, attached to the front of the chair under the seat, and thus hold the foot-rest at any angle at which it may be placed. The bar is readily released from contact with the staple or bar S by means of a cord, *p*.

What I claim as new, and desire to secure by Letters Patent, is—

1. A foot-rest for chairs, &c., made in two parts, sliding one within the other by means of tubes and rods, and held at different lengths by means of an apron secured to one of the

parts and passing over a roller on the other part, substantially as shown and described.

2. The combination and arrangement of the chamber H, ball J, lever K, and strip L, as shown and described, for the purpose specified.

3. The combination and arrangement of the notched bar P, pivoted to the frame D by means of rod R and eyes *d*, the bar S, and

cord *p*, as shown and described, for the purpose specified.

The above specification of my invention signed by me this 3d day of September, 1872.

EDWARD COLLINS.

Witnesses:

BEEKMAN S. BURNHAM,
ALBERT B. TUTHILL.