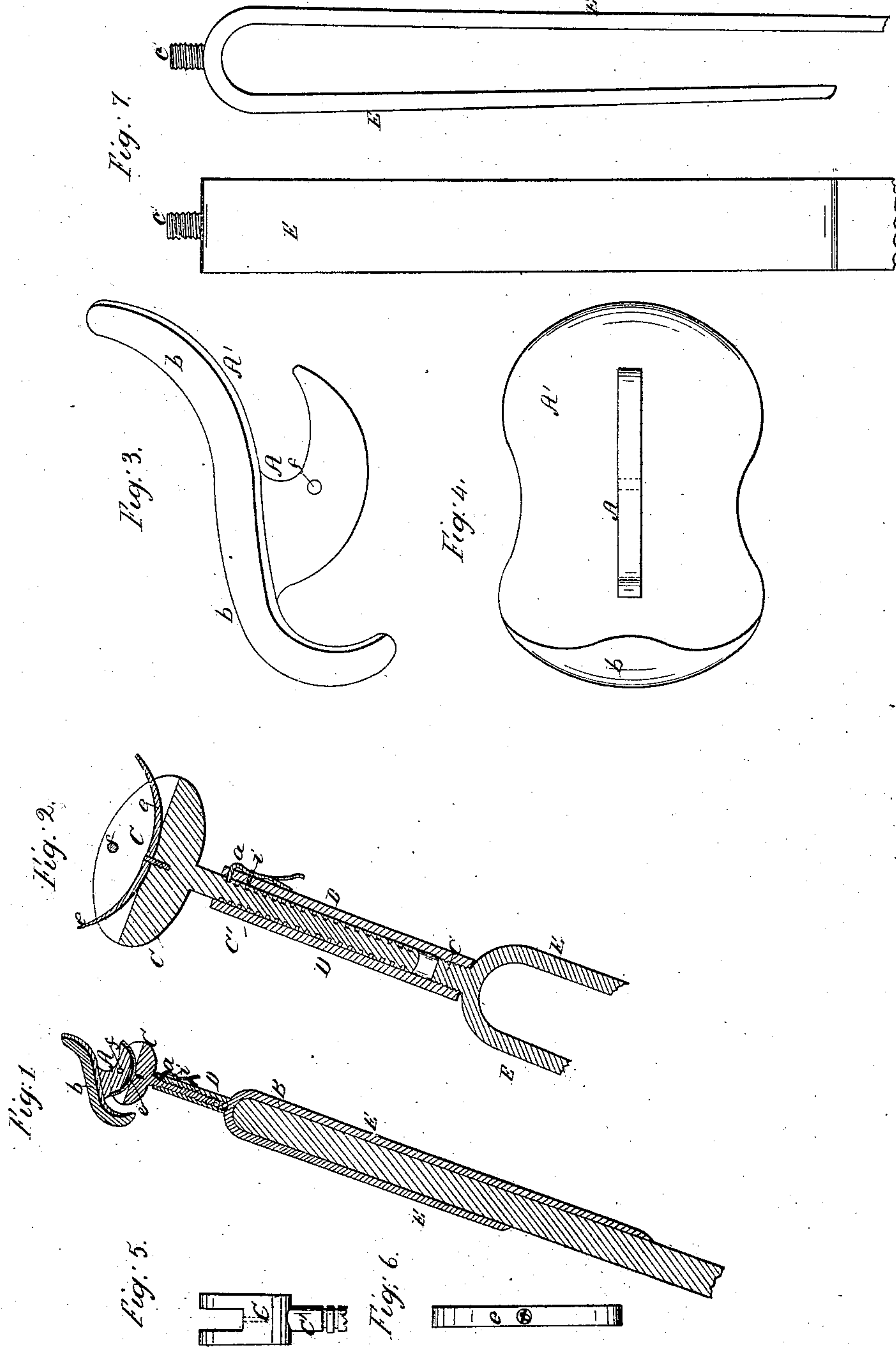


W. M. McCauley,

Head-Rest,

N<sup>o</sup> 18,122.

Patented Sep. 1, 1857.





# UNITED STATES PATENT OFFICE.

WM. M. McCAULEY, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO J. N. McINTIRE.

## HEAD-REST FOR RAILROAD-CAR SEATS.

Specification of Letters Patent No. 18,122, dated September 1, 1857.

*To all whom it may concern:*

Be it known that I, WM. M. McCAULEY, of Washington, in the District of Columbia, have invented certain new and useful Improvements in Portable Head-Rests; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in a portable head rest, secured to the back of car or other seats, and so constructed as hereinafter described, that it will accommodate itself to any position of the head of the person, who may be occupying it, and at the same time form an elastic or spring support and be capable of adjustment to any required height from the top of the seat back, to suit persons of different height.

To enable others skilled in the art to make and use my invention I shall proceed to describe its construction and operation, reference being had to the accompanying drawings, forming part of this specification, and in which—

(Figure 1) represents a vertical section through the center of my head supporter, attached to the back of a seat; (Fig. 2) a similar section on an increased scale, and having the head plate detached; (Figs. 3 and 4) vertical section through the center and bottom, view of the head plate and cushion; (Fig. 5) front view of the holder and portion of adjusting stud; (Fig. 6) top view of main spring and (Fig. 7) front view of the clasp.

To the short stud (*c*) is screwed the shell or tube (*P*) (see Fig. 2).

(*C*) is the holder consisting of a block, elliptical in a section across the back of the seat, and rectangular in a longitudinal section of the back of the seat (see Figs. 2 and 5) and having cut through its longer diameter a slot, about one third of the thickness of the block in width and one half its shorter diameter in depth; said block is formed with a shank or spindle (*C'*) extending from its bottom downward, which spindle fits into the shell or tube (*D*) and is furnished with circular grooves into which the spring catch (*a*) bites and whereby said blocks and spindle are supported, at any required elevation in or relative to said tube (*D*).

(*e*) represents a circular segmental spring, which touches the bottom of the slot in the

block (*C*) and is secured at the point of contact by a pin or screw (*o*); the ends of said spring have their bearings against the lower side of the rocker (*A*) which is pivoted in the slot of the block (*C*) by the pivot (*f*) and tends always to keep said rocker in a central position.

(*A'*) is the head plate secured on the under side to the rocker (*A*) and on the upper side is suitably cushioned to accommodate the head of the person.

The operation of my improved head rest is as follows: The spindle is released from the spring catch (*a*) and raised or lowered in the hollow tube (*D*) to suit the stature of the occupant, and when properly adjusted secured by said catch (*a*); the rest is now ready to receive the head of the person who may occupy the seat. When the head is placed in the head plate (*A'*) the rocker (*A*) to which said plate is secured, will turn or swing in a vertical plane to suit any inclination of the head, the spring (*e*) yielding in either direction in which the head may be inclined, and giving said head plate an elasticity or spring, which is very desirable; especially, in rail road car seat head rests.

The peculiar advantages of this head rest are readily comprehended, and are first its portability, secondly its adjustment to the position of the head, supporting it at any inclination, thirdly possessing elasticity or spring, and fourthly its cheapness, and being of so simple construction that there is no liability to get out of order or repair.

Having fully explained the construction of my "portable head rest" and described as nearly as practicable, its operation and advantages, what I claim as my invention and desire to secure by Letters Patent is:—

Pivoting the rocker or shank (*A*) of the head plate, in the stationary holder (*C*) in combination with the segmental spring (*e*) whereby the head-plate accommodates itself to any inclination of the head, and forms a springing or elastic support, the whole constructed and operating substantially as described.

I do not broadly claim pivoting the head plate to the stationary holder.

In testimony whereof I have hereunto set my hand this 23rd day of March 1857.

WM. M. McCAULEY.

Witnesses:

SAML. GRUBB,

JOHN S. HOLLINGSHEAD.