2 Sheets.--Sheet 1.

W. M. WHITE.
Head-Rest.

No. 162,784. Patented May 4, 1875.

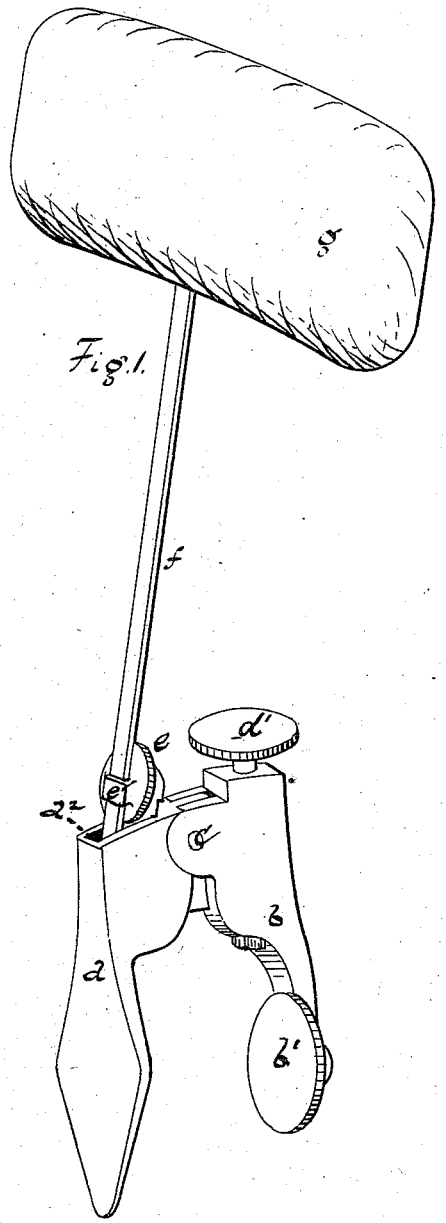

Fig. 1.

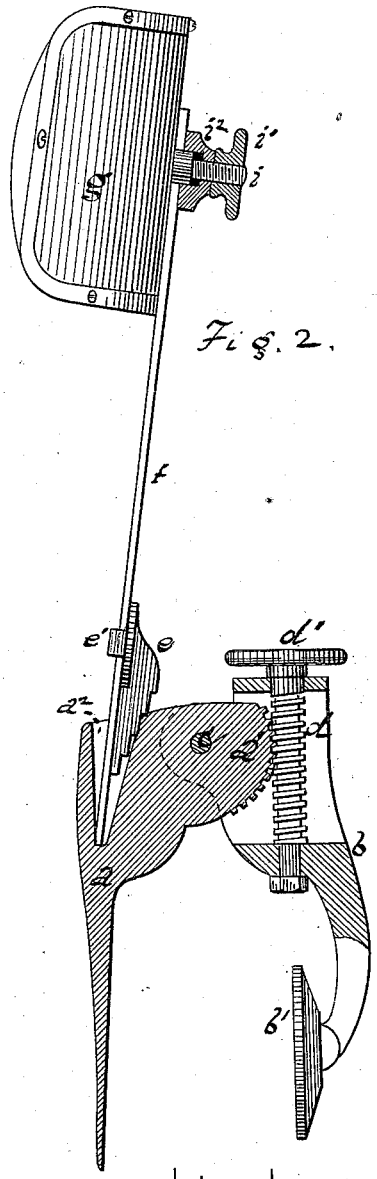

Fig. 2.

WITNESSES
George E. Nolan
Frederic J. Woodford

INVENTOR
Willard M. White
By W. E. Simonds
Atty.

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2 Sheets--Sheet 2.

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Fig. 3.

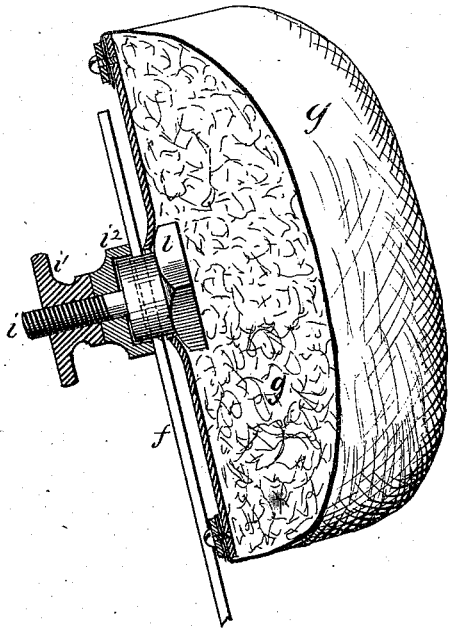
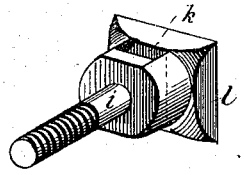


Fig. 4.



Attest:
Wm. A. Rucker
W. B. Shaffer

Inventor.
Willard M. White
By W. E. Simonds
Atty.

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

WILLARD M. WHITE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN HEAD-RESTS.

Specification forming part of Letters Patent No. **162,784**, dated May 4, 1875; application filed January 8, 1875.

To all whom it may concern:

Be it known that I, WILLARD M. WHITE, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements pertaining to Portable Head-Rests for Rail-Car Chairs, and the like; of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a perspective view of a head-rest, embodying my said improvements. Fig. 2 is a view of the same in central longitudinal section. Fig. 3 is a vertical cross-section of the rest, showing the construction and arrangement of the screw-pin, clamp, and nut. Fig. 4 is a perspective view of the screw-pin detached.

The letters *a b* denote two clamp-fingers pivoted together by pin *c*. The finger *b* has the metal pad *b'* pivoted thereto. The inside of the finger *a* and pad *b'* are, by preference, padded with rubber, or the like. The top of the finger *a* lets into the top of the finger *b*, and there has the gear-segments *a'*, into which mesh the threads or teeth of the worm-screw *d*, on the upper end of which is the thumb-disk *d'*, by the rotation of which the two finger ends are adjusted toward or from each other, as desired, so as to clasp to or unclasp from the back of a rail-car chair or the like. In the top of the finger *a* is the socket a^2, into which sits the foot-adjuster *e*, the back side of which consists of a series of steps, by means of which the spring-standard *f*, the foot of which passes through the mortise-clamp *e'*, can be adjusted at a desired angle. On the upper part of the spring-standard is supported the padded rest *g*, from the back of which projects the screw-pin *i*, the standard *f* passing through a mortise, *k*, therein. On the outer end of the pin *i* is the thumb-nut i^1, bearing under it the clamp i^2, bearing on the standard *f*, by means of which the rest *g* can be adjusted at a desired point on the standard *f*, and also have a rotary adjustment on the pin *i*, which pin can, when free, turn or rotate in the rest. The screw-pin *i* is made with a square or other flanged head, *l*, that is free to turn in the rest *g*, substantially in the manner indicated in Fig. 3.

I claim as my invention—

1. The combination of the clamp-fingers *a b*, the former bearing the gear-segment *a'*, and the latter bearing the worm-screw *d*, all constructed and designed for use substantially as described.

2. The combination of the foot-adjuster *e* (its back consisting of a series of steps) and the standard *f*, substantially as shown and described.

3. The combination of the spring-standard *f*, rest *g*, pin *i*, nut *i'*, and clamp i^2, substantially as shown and described.

WILLARD M. WHITE.

Witnesses:

JOHN JAMESON,

HARVEY N. SHEPARD.