

(No Model.)

H. H. PARKHILL.

HEAD REST.

No. 389,938.

Patented Sept. 25, 1888.

Fig. 1.

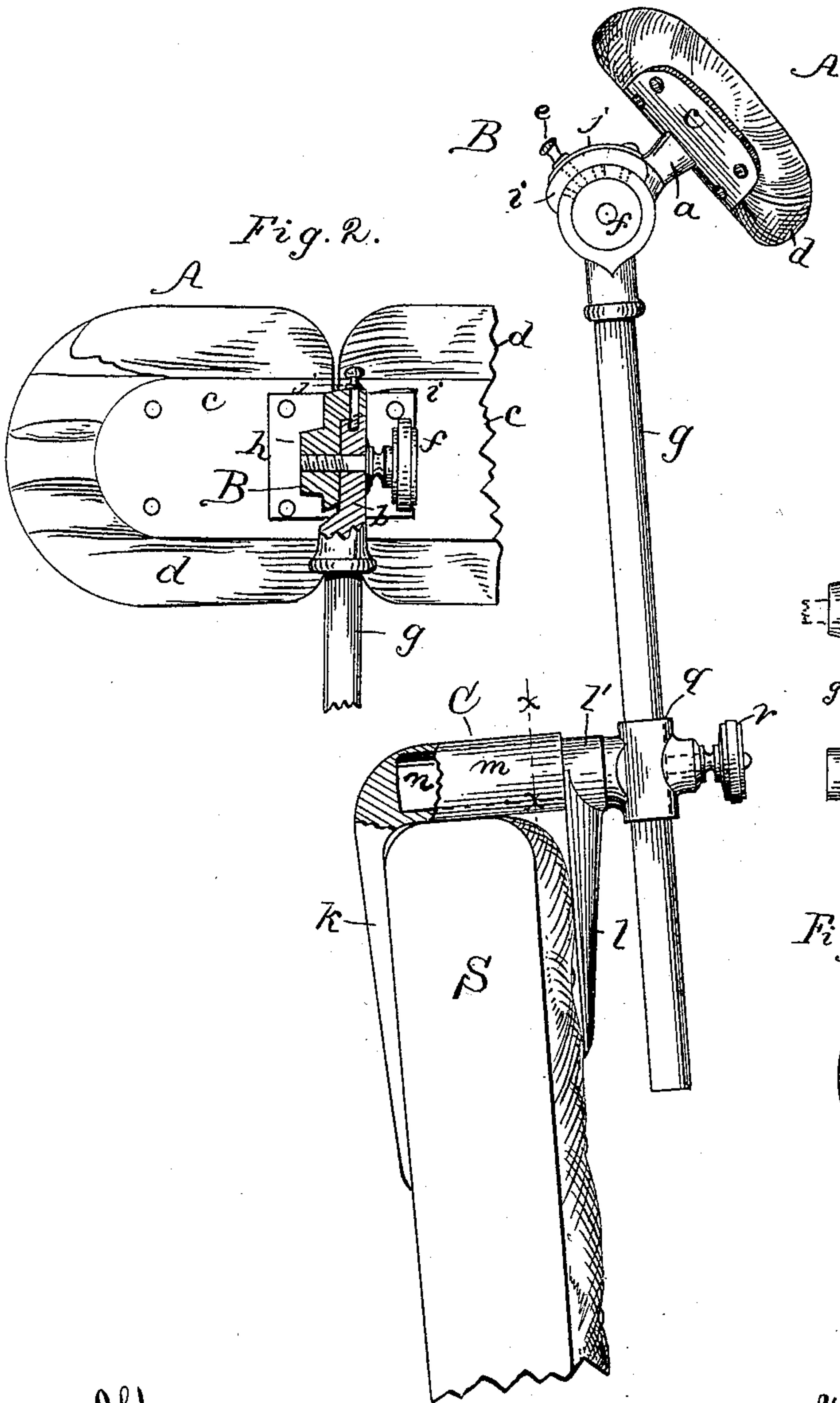


Fig. 2.

Fig. 3.

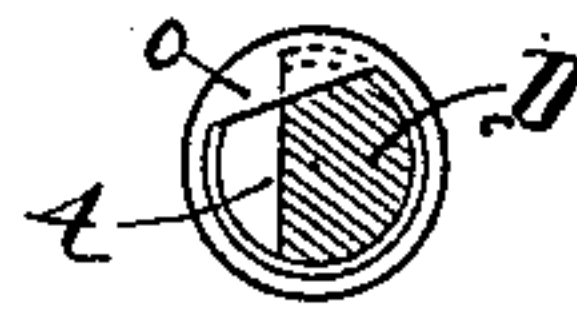


Fig. 4.

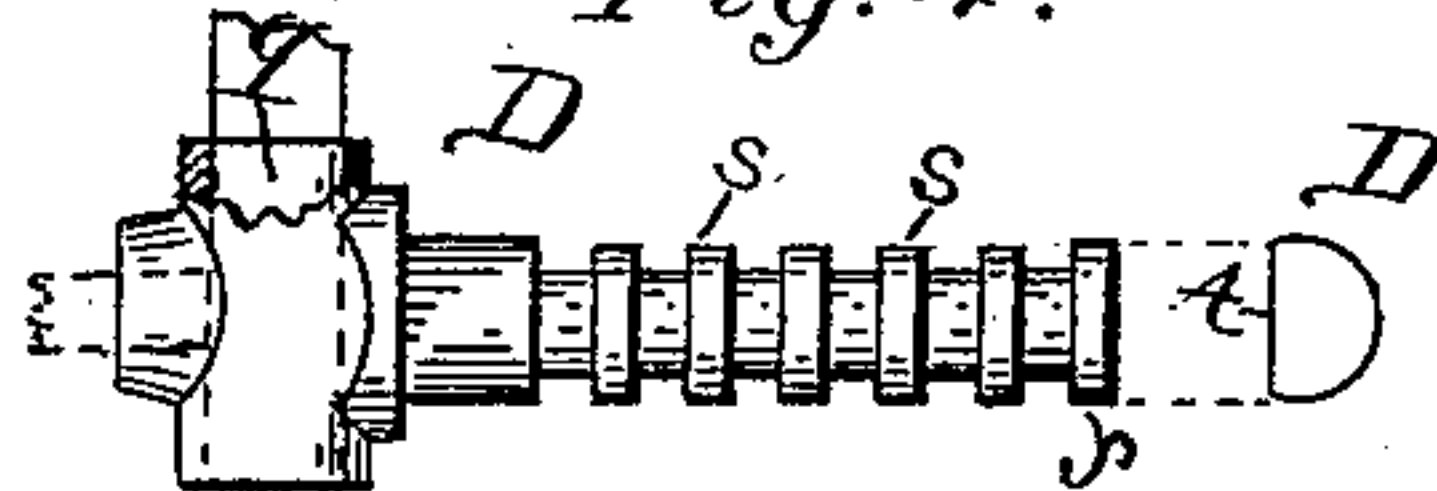


Fig. 5.

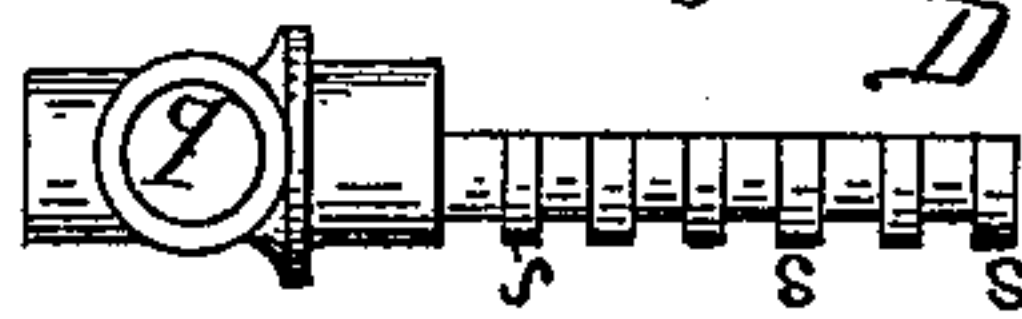
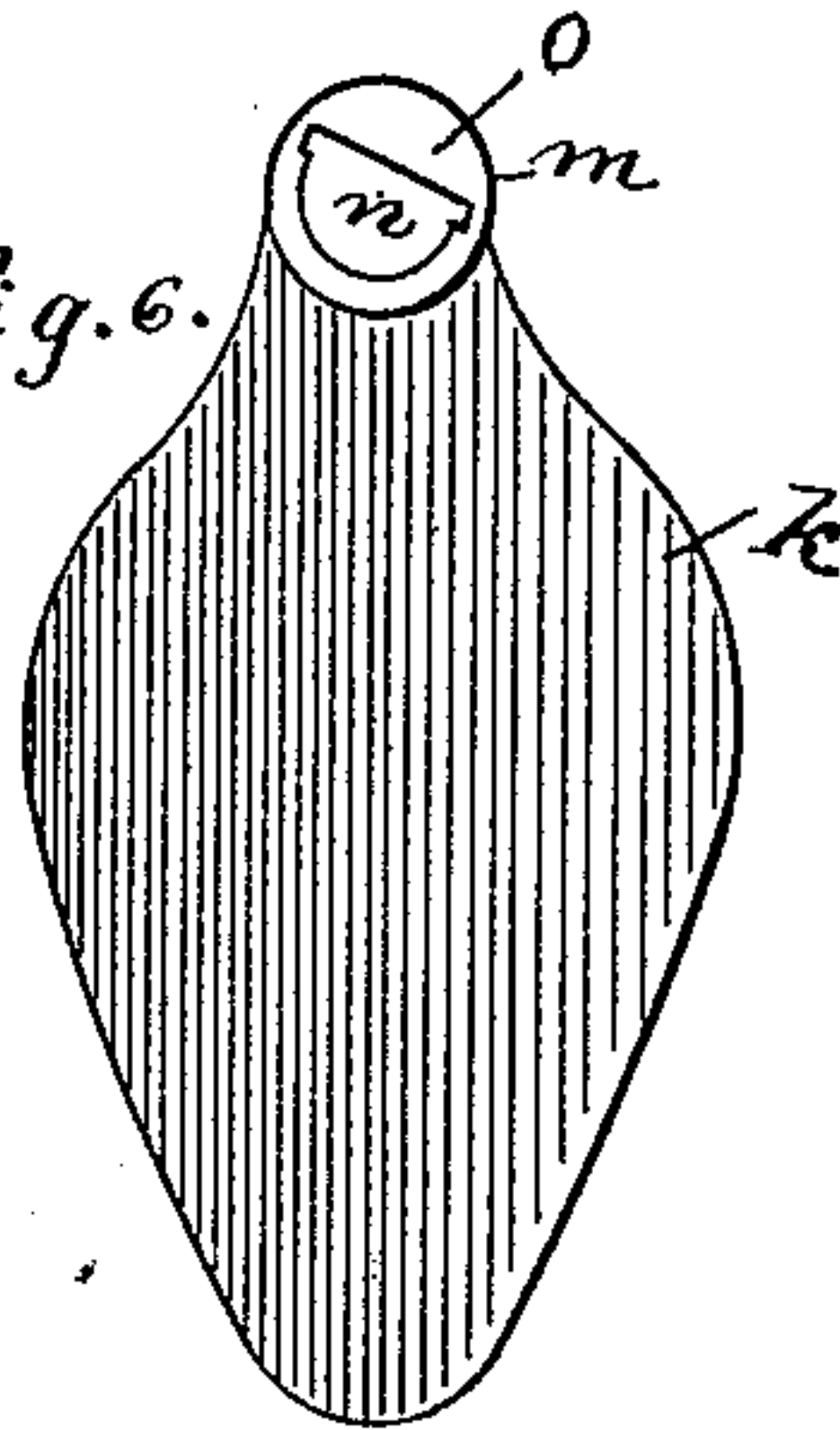


Fig. 6.



Witnesses:  
Thos. Houghton.  
E. H. Waters

Inventor:  
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# UNITED STATES PATENT OFFICE.

HUGH H. PARKHILL, OF CHICAGO, ILLINOIS.

## HEAD-REST.

SPECIFICATION forming part of Letters Patent No. 389,938, dated September 25, 1888.

Application filed May 4, 1888. Serial No. 272,842. (No model.)

*To all whom it may concern:*

Be it known that I, HUGH H. PARKHILL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have  
5 invented certain new and useful Improvements in Head-Rests, of which the following is a specification.

My invention relates to portable head-rests, particularly for the use of travelers in rail-  
10 way-cars, or for use at home on chairs or lounges, as may be required for invalids or others.

The objects of my invention are to provide a portable head-rest that may be easily engaged with or disengaged from the back of a  
15 car-seat, chair, sofa, or other article of furniture, that may be easily adjusted and secured at any desired angle to suit the occupant, and that is convenient to carry in a small compass  
20 when not in use. These objects I attain by the mechanism shown in the accompanying drawings, in which—

Figure 1 is a side elevation of my improved head-rest attached to the back of a car-seat, S.  
25 Fig. 2 is a view of the back part of the head-rest and a part of the supporting-rod. Fig. 3 is a transverse section through the clamping-bolt and its socket, taken on the line *xx* of Fig. 1. Fig. 4 is a side elevation of clamping-bolt in  
30 its normal position when in use. Fig. 5 is a similar view of the clamping-bolt, taken at right angles to Fig. 4, or at a quarter-turn from said figure. Fig. 6 is a view of inside of the outer clamping-jaw and socket for clamp-  
35 ing bolt or screw.

Similar letters refer to like parts in all the figures.

A is the head-rest proper. It is constructed as follows: An arm, *a*, projects from a circular hinge-plate, *b*, and is provided at its outer  
40 end with two head-rest cushion-bearing plates, *c c*, hinged together at the outer end of arm *a*. On plates *c c* are secured cushions *d*, in the usual well-known manner. Plates *c c* may be rigidly attached to arm *a* instead of being hinged,  
45 as both these constructions are common in head-rests.

B is the head-rest-tilting device, which consists of the following parts: *b* is a circular plate  
50 provided with radial perforations on a part of its periphery, as shown by dotted lines in Fig. 1. Said perforations are screw-threaded at their

bottoms to receive a regulating spring supported pin, *e*. (Shown in Figs. 1 and 2.) Plate *b* is centrally perforated to receive pivotal set-screw  
55 *f*. From plate *b* the supporting-rod *g* depends, as shown in Figs. 1 and 2. *h* is the twin hinge-plate of *b*, fitting against it and pivotally secured thereto by thumb-screw *f*. *i* is an overhanging flange portion of *h*, perforated radi-  
60 ally to receive pin *e*, which is secured to spring *j*. By this arrangement the head-rest may be tilted to any desired angle and secured in such position by simply turning spring-  
65 supported pin *e* and set-screw *f*.

By threading only the lower portion of pin *e*, I am enabled to obtain a strong support for the head-rest without danger of breakage to  
70 pin *e*, the strain against the pin being confined to its upper smooth unthreaded portion, which will give the increased strength of resistance to breakage above referred to.

C is the clamping device. It consists of two opposing clamping-jaws, *k l*, and a clamping-bolt, D. The outer clamping-jaw, *k*, is a broad  
75 plate provided with a socket portion, *m*, at right angles to its upper part, as shown in Figs. 1 and 6. The socket *n* is of circular form, having its entrance partially cut off or blocked  
80 up by a plate, *o*, equal in thickness to the spaces between the threads of clamping-bolt D, which will presently be described. Socket  
85 *n* extends nearly to plate *k*, as shown in dotted lines, Fig. 1. Clamping-jaw *l* may be similar in size, or narrower, if desired, than  
90 outer jaw, *k*. It has a perforated collar or hub, *v*, to receive the clamping-bolt.

D is the clamping-bolt, provided near its outer end with a socket, *q*, (adapted to receive  
95 supporting-rod *g*, before described,) and a set-screw, *r*, to secure rod *g* in any desired position. The body of bolt D is of the shape shown in cross-section in Fig. 3—*i. e.*, of circular form with a segment cut off. It is also  
100 provided with a series of equidistant flanges or threads, *s*, parallel to each other, and which may be at right angles to the axis of the bolt or oblique thereto.

In putting my device into use I first place bolt D with its flat surface *t* parallel with the cor-  
105 responding flat surface of plate *o*. The bolt or screw will then enter socket *n*. I then press plates *k l* tightly together upon the back of the car-seat, chair, or sofa. By turning bolt D

about a quarter-turn the clamping device will be secured in place. I then insert rod *g*, secure it in place by set-screw *r*, and adjust the head-rest, as before described.

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

10 1. The combination of a head-rest with an adjustable tilting device consisting of a circular plate perforated radially from its periphery, said perforations being screw-threaded at their bottoms, a rod, *g*, supporting the tilting device, a twin plate, *h*, provided with an arm, *a*, an over-

screw-threaded adjusting-pin, *e*, as herein set forth and described.

15 2. In portable head-rests, a clamping device consisting of jaws *k l*, one of which, *k*, is provided with a socket and a cut-off plate, *o*, as herein shown, and a clamping-bolt in cross-section a segment of a circle, provided with 20 equidistant flanges *s* and a socket, *q*, as and for the purposes herein set forth.

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Witnesses:

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O. R. KNIGHT.