

(No Model.)

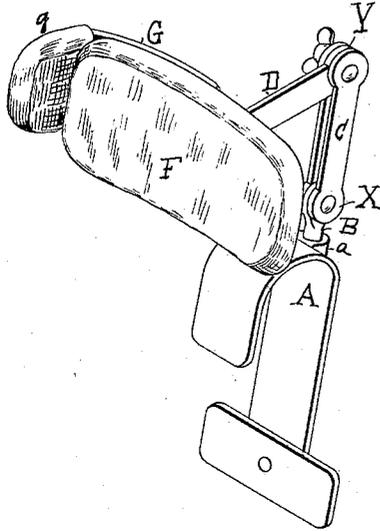
G. E. DOLTON.

PORTABLE ADJUSTABLE HEAD REST.

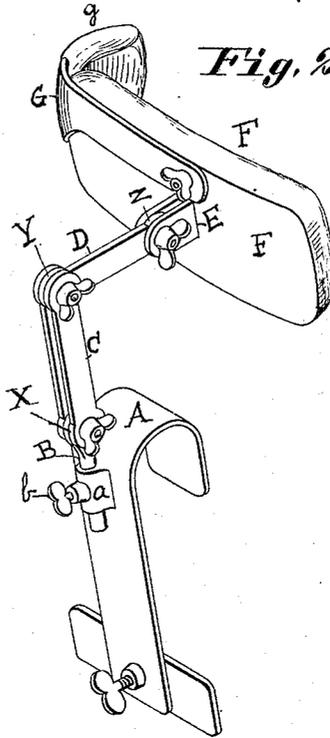
No. 344,726.

Patented June 29, 1886.

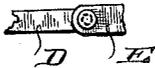
*Fig. 1.*



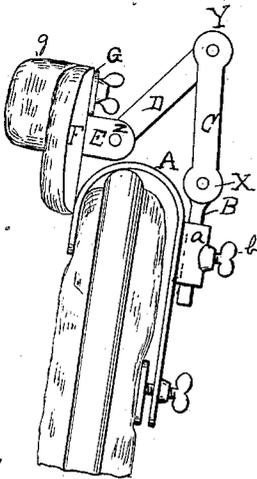
*Fig. 2.*



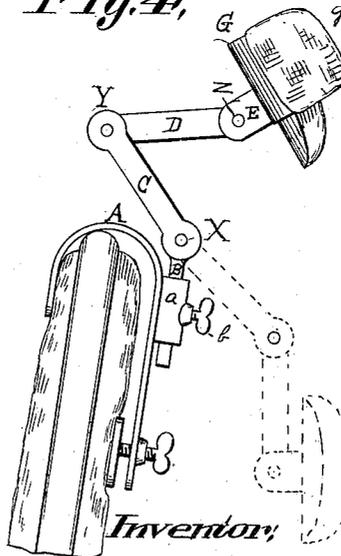
*Fig. 5.*



*Fig. 3.*



*Fig. 4.*



*Attest:*

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# UNITED STATES PATENT OFFICE.

GEORGE E. DOLTON, OF ST. LOUIS, MISSOURI.

## PORTABLE ADJUSTABLE HEAD-REST.

SPECIFICATION forming part of Letters Patent No. 344,726, dated June 29, 1886.

Application filed August 26, 1885. Serial No. 175,317. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE E. DOLTON, of the city of St. Louis, State of Missouri, have made a certain new, useful, and valuable Improvement in Portable Adjustable Head-Rests, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, in which—

Figure 1 is a perspective view of front of head-rest raised; Fig. 2, rear view of same; Fig. 3, side elevation of head-rest, showing head-rest as attached to the back of a car-seat ready for use; Fig. 4, side elevation of head-rest, showing the head-rest turned back in another position from that shown in Fig. 3; and Fig. 4 shows in dotted lines the head-rest dropped down in another position. Fig. 5 is a view showing the arms D and E pivoted by a pin instead of a set-screw.

The object of my invention is to provide a portable device, which can be attached to the back of a chair or car-seat and adjusted in any position of rest for the head which the desires of comfort may dictate; and it consists, essentially, of a device for gripping the back of a chair or car-seat, a cushion or pad for the head to rest upon, adjustably-connected arms pivoted to each other, so as to form three pivotal joints, by means of which the cushion and gripping device are connected together, and by means of which the cushion is adjusted to any desirable position of comfort and rest for the head. I have discovered that two pivotal joints or connections for adjustable arms connecting said cushion and gripping device together will not suffice to allow the adjustment of the cushion to varied positions of comfort and rest for the head, but with the addition of a third joint, providing a means of adjustment, the desired amount of play and opportunities for placing the cushion at varied and desired positions are obtained.

The construction of my invention is as follows: The device for gripping the back of the chair or car-seat is preferably in the shape of a gripping-spring made by bending a piece of suitable metal into a bow or U shape, and in practice I preferably make one of the ends of this U-shaped gripping device longer than the other, and provide this longer end with a thumb-screw and block, as shown in the draw-

ings; but this is only my preferable construction, for I have found that a simple bow or U-shaped gripping device will hold the head-rest mechanism in place on the back of a car-seat by virtue of the elasticity and grip of such U or bow-shaped piece of metal when forced over the back of a car seat. This gripping device I have lettered A in the drawings. Preferably I provide the grip A with a socket, *a*, into which a pin, B, with a rounded shank, is dropped. This pin B is controlled in its position in socket *a* by means of a thumb-screw, *b*. The head of the pin B is preferably broad and flat, and is provided with a hole, the object of which is to provide a means of connecting one end of a pivoted adjustable arm, C, with the pin B and the gripping device A; and I preferably have the surface of the head of the pin B cogged, so that such surface may come into play with a corresponding surface in the end of arm C, enabling these two pieces to be held firmly in a desirable position, as hereinafter stated.

The first of the pivoted arms I designate as C. This arm C, I preferably form of two pieces, as shown particularly by Fig. 2 of the drawings. The object of forming this arm, as there shown, in two pieces is to afford the opportunity for making a good pivotal connection with pin B, the lower ends of the pieces of arm C being preferably flat, and preferably having a cogged face corresponding to the cogged surface at the head of pin B, and provided with a hole corresponding to the hole in the head of pin B, by means of which the shank of the same thumb-screw passes through the lower ends of the pieces that form arm C, and through the head of pin B, thus forming a connection or joint between the head of the pin B and the lower part of arm C, which is a connection which may be regulated so as to be either a loose or pivotal connection between pin B and arm C, or a rigid connection between these two parts. The upper ends of the pieces forming arm C are preferably broad and flat, and preferably provided with a cogged surface, for the purposes stated, and are also provided with holes, and between these upper ends of arms C a like end of arm D, which is also provided with a hole, and preferably cogged for the pur-

poses stated, is placed, and an adjustable and pivotal connection or joint, Y, is there formed between the arms C and D by passing the shank of a thumb screw through these openings in the ends of these pieces forming arms C and D. Arm D, at its other end—the end farthest from end of arm C—is preferably broad and flat, and provided with a hole. Arm E is preferably formed of two pieces, which are firmly attached at one end to the cushion F, and which are provided at their other ends with holes, and are far enough apart to receive the end of arm D, which is not engaged with arm C. Then a pivotal adjustable connection or joint, Z, is formed between arms D and E by inserting the shank of a thumb-screw through the holes in the ends of pieces forming arm E, and through said end of arm D. I say this connection between arms D and E may be made by means of the shank of a thumb-screw, but a thumb-screw to form this joint is hardly necessary, for it is advisable, generally speaking, to have this connection between the arms D and E a loose pivotal connection, it having been found in practice that it is almost never desirable to have that connection rigid.

It will readily be seen that my third pivotal adjustable connection or joint Z may be formed by dispensing with the rigid pieces forming arm E, and by pivoting the end of arm D directly to frame of cushion F; but the construction shown is my preferable one.

My pivoted adjustable arms C, D, and E, as also the rest of my device, excepting the cushion-pad, are preferably made of metal.

My cushion F consists, essentially, of a back piece or frame-work to which the end of arm E not connected with arm D is rigidly attached, or into which arm D may be pivoted, as before stated. The face of cushion F is covered with some soft material for the head to rest upon.

As a preferable addition to my device, by means of a thumb-screw I attach a pivoted arm, G, to my cushion F. This arm G is bent at its end *g* to form a side piece for cushion F, and the end *g* of arm G is padded.

The operation of my invention is as follows: The thumb-screws connecting arms C, D, and E, and the cushion F and the grip A together being loosened, as is readily seen, my head-rest can be dropped forward and down into

the back of the seat and there adjusted in any position desirable. It can be dropped back into the positions shown in Fig. 4 of the drawings, to form a rest in any suitable position for a person on a back seat, and with its peculiar facilities for adjustment my device can be used to rest the head of a child or of a tall grown person. When any desirable position has been reached, my device can be arrested in that position by tightening thumb-screws; but, as previously stated, the thumb-screws connecting arm C to grip being tightened and the thumb-screws connecting arms C and D together being tightened, it is desirable not to tighten the thumb-screw connecting arm D and E together; but it is desirable to let this connection or joint between arms D and E, or between arm D and frame of cushion F, remain a loose connection. The attachment formed by the pivoted arm G and its padded end is of advantage in preventing the head from slipping from the cushion.

I am aware that a single arm pivoted to a head-rest and to an adjustable rod or fastening device, which is secured to the back of a chair is not new, and I do not desire to claim the same.

I am also aware that portable head-rests are described in Letters Patent No. 242,380, dated May 31, 1881, and I do not desire to claim the same.

I claim—

1. In a portable adjustable head-rest, the combination of the arms C D, pivotally connected with each other, a head-rest, F, having a detachable arm, G, said rest being pivoted to the arm D, and a gripper, A, to which the arm C is adjustably pivoted, substantially as and for the purposes specified.

2. In a portable adjustable head-rest, the combination of the double bar C, single bar D, and adjustable pin B, pivotally connected by thumb-screws, and a head-rest, F, to which the bar D is pivotally connected, substantially as and for the purposes specified.

In testimony whereof I have affixed my signature, in presence of two witnesses, this 13th day of August, 1885.

GEORGE E. DOLTON.

Witnesses:

J. W. CROOKES,  
PAUL BAKEWELL.