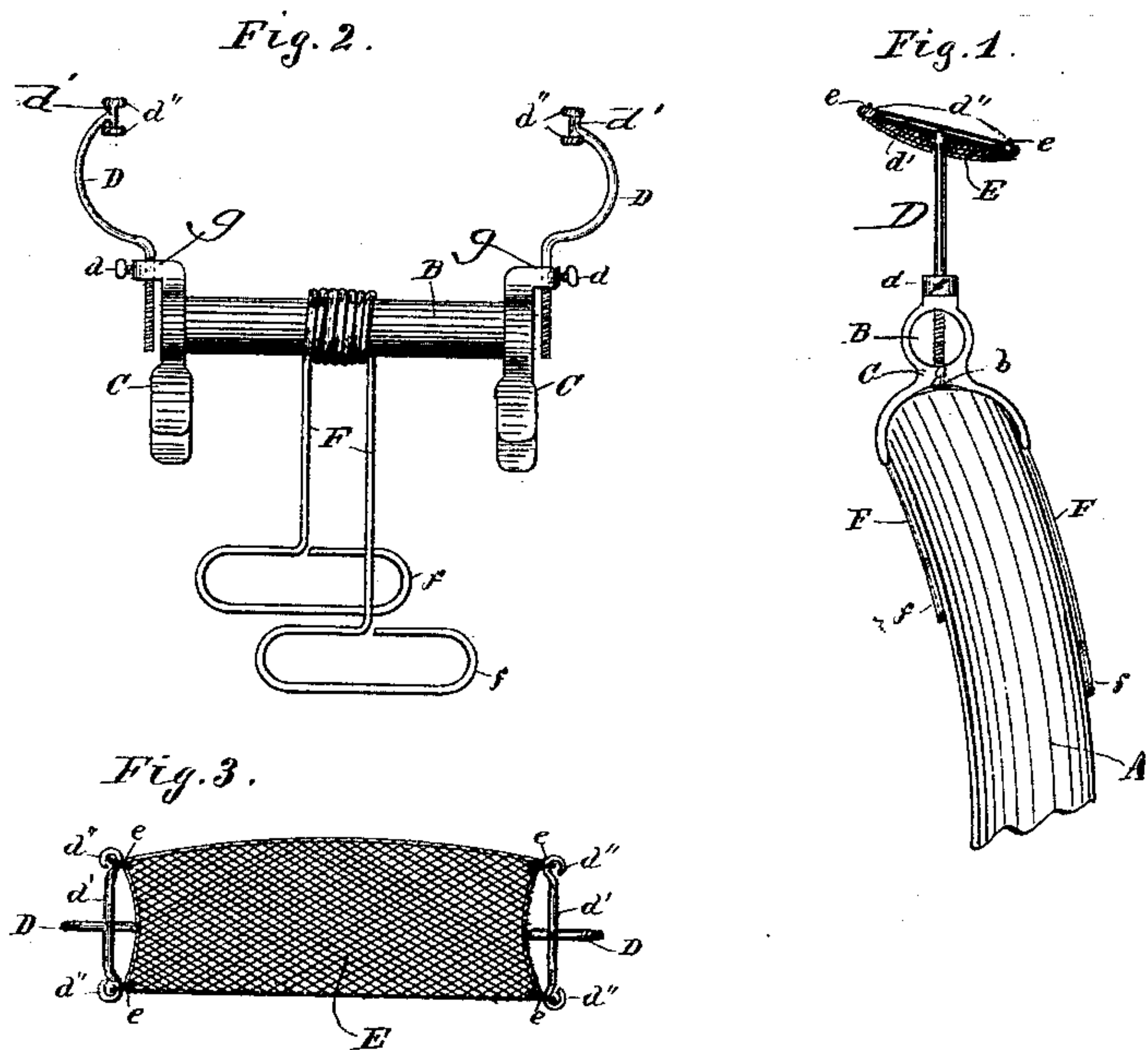


(No Model.)

W. HILL.
REMOVABLE HEAD REST FOR CAR SEATS.

No. 415.326.

Patented Nov. 19, 1889.



Witnesses
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UNITED STATES PATENT OFFICE.

WARREN HILL, OF MINNEAPOLIS, MINNESOTA.

REMOVABLE HEAD-REST FOR CAR-SEATS.

SPECIFICATION forming part of Letters Patent No. 415,326, dated November 19, 1889.

Application filed May 4, 1889. Serial No. 309,639. (No model.)

To all whom it may concern:

Be it known that I, WARREN HILL, a citizen of the United States, and a resident of the city of Minneapolis, county of Hennepin, State of Minnesota, have invented a certain new and useful Removable Head-Rest for Car-Seats, of which the following is a specification, reference being had to the accompanying drawings.

10 My invention has for its object to provide a removable and portable head-rest of simple construction adapted for application to a car-seat or other object, and which can be folded into compact form for storage and shipment.

15 To this end, on a common shaft provided with seats adapted to rest over the top of the car-seat I mount a spring-clamp for securing the same thereto and a pair of adjustable spring-standards at its opposite extremities, and on 20 these standards a flexible hammock for receiving the weight of the head. The standards are made removable from the supporting shaft or frame and the hammock is detachable from the standards. The whole device can 25 be therefore knocked down and packed into a small compass, convenient for carrying the same in an ordinary grip.

The device is especially designed for use by travelers, to be applied to car-seat, but 30 may be applied to a common chair or other seats having backs.

In the accompanying drawings, wherein like letters refer to like parts throughout, Figure 1 is a side elevation of the device in 35 position on a back of the car-seat. Fig. 2 is a front view of the same detached, with the hammock removed. Fig. 3 is a plan view of the hammock detached.

A represents a part of a common car-seat. 40 B is the supporting-shaft or main frame of the device.

C are a pair of curved arms of different lengths, or concave seats rigidly secured to the shaft B and adapted to rest over the top 45 of the car-seat. These arms are preferably metallic castings secured in any suitable way to the shaft or body B, as by set-screws *b*. They might, however, be formed integral with the shaft or main frame.

50 D are adjustable hammock-supporting standards secured in any suitable way in the

casting C. Each casting is provided with a perforated lug or offset portion *g*, which is preferably threaded, although it may be plain, and the standards D have stems, which may 55 be either plain or threaded, engaging therewith, and for greater security set-screws *d*, working through transverse holes in the casting, may be employed to lock the standards at any desired point. The standards are 60 curved outward above their stems, and are made of spring metal, so that they will yield under the weight of the individual's head. Their upper extremities are provided with right-angled extensions *d'*, provided with 65 eyes *d''*, adapted for the attachment of the hammock.

E is the hammock, composed of suitable flexible material—such as common netting—having hooks *e'*, adapted to engage with the 70 eyes *d''* of extensions *d'* of the standards D.

F is the clamp, which is in the form of a coiled spring, encircling the shaft B at its central portion and having enlarged loops *f* at its extremities adapted to engage with the 75 front and back of the seat.

The arms of the casting or support C and the ends of the two-part spring-clamp F are of different lengths and degrees of curvature for the more perfect fitting of the device to a 80 car-seat.

The operation and use of the invention is evident from the description already given.

What I claim, and desire to secure by Letters Patent of the United States, is as follows: 85

1. A frame provided at each extremity with a device for securing it to the back of a seat and with perforated lugs, in combination with standards having stems adjustably secured 90 in said lugs, and a hammock detachably connected to the standards, substantially as described.

2. A frame provided at each extremity with a pair of curved arms, constituting a concave 95 seat, and with a laterally-projecting lug having a screw-threaded perforation, in combination with standards having threaded stems adjustable in said lugs, and bearing devices for securing a head-support, substantially as 100 described.

3. A frame having rigidly secured to each

extremity a casting provided at one end with curved arms and at the other with a projecting perforated lug, curved arms of spring metal adjustably secured in the lugs, and a
5 hammock detachably connected to said arms, substantially as described.

4. In combination with the supporting-frame, standards adjustably secured thereto and provided at their upper ends with in-
10 clined right-angled extensions having hooks, and a hammock with eyes connected to said hooks, substantially as set forth.

5. In combination with the frame B, carrying arms C, and laterally-projecting lugs having screw-threaded perforations, the stand-
15 ards D of spring metal, each having a threaded

stem, set-screws *d*, and a hammock detachably secured to said standards, substantially as set forth.

6. In combination with the main frame carrying a pair of curved arms of different lengths at each extremity, the spring-clamp coiled about the frame and having enlarged loops at its extremities, the standards adjustably secured to the frame, and a hammock
20 detachably connected to the standards, substantially as set forth. 25

WARREN HILL.

In presence of—

JAS. F. WILLIAMSON,
EMMA F. ELMORE.