(No Model.)

M. A. CAMPBELL.

ADJUSTABLE PILLOW OR BODY SUPPORT.

No. 420,860. Patented Feb. 4, 1890.

Fig. 1.

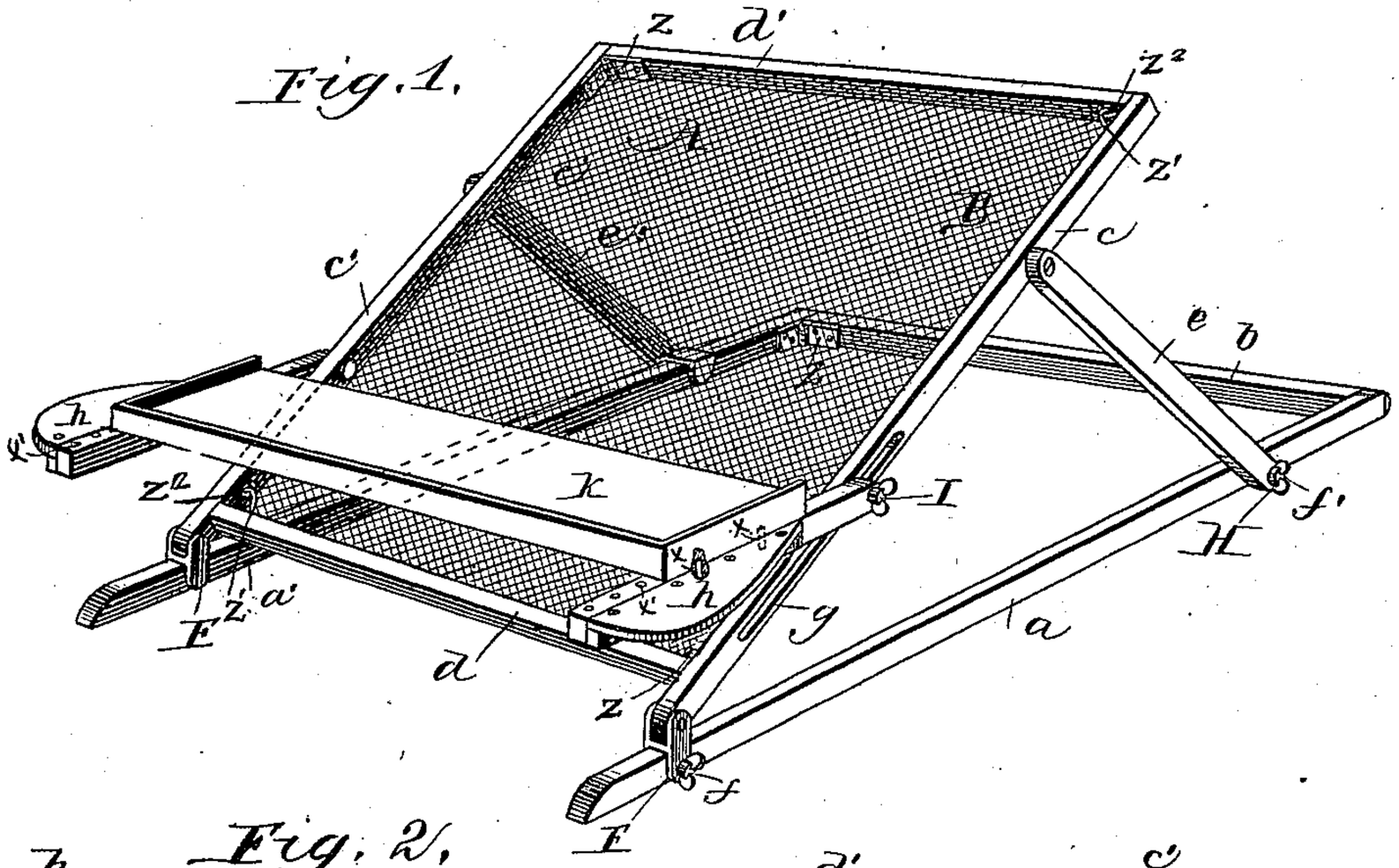

Fig. 2.

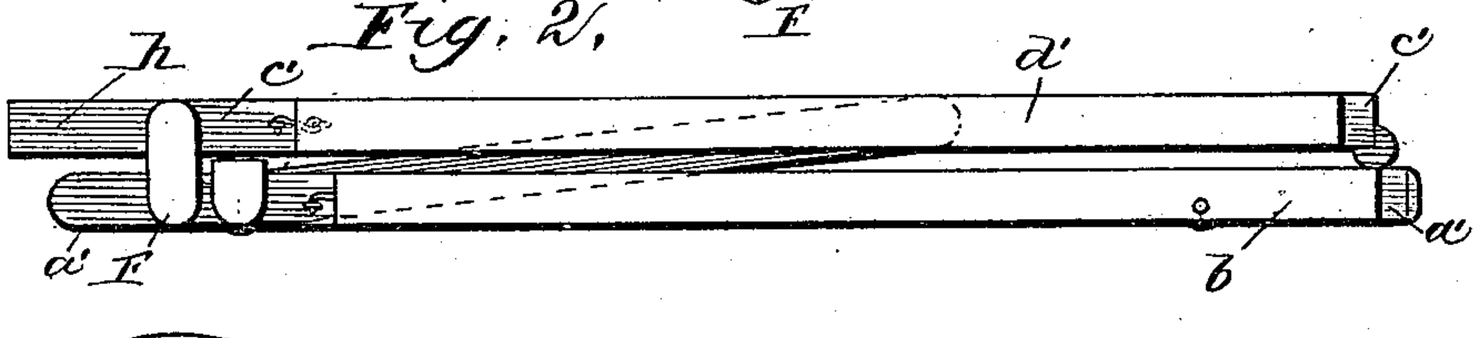

Fig. 3.

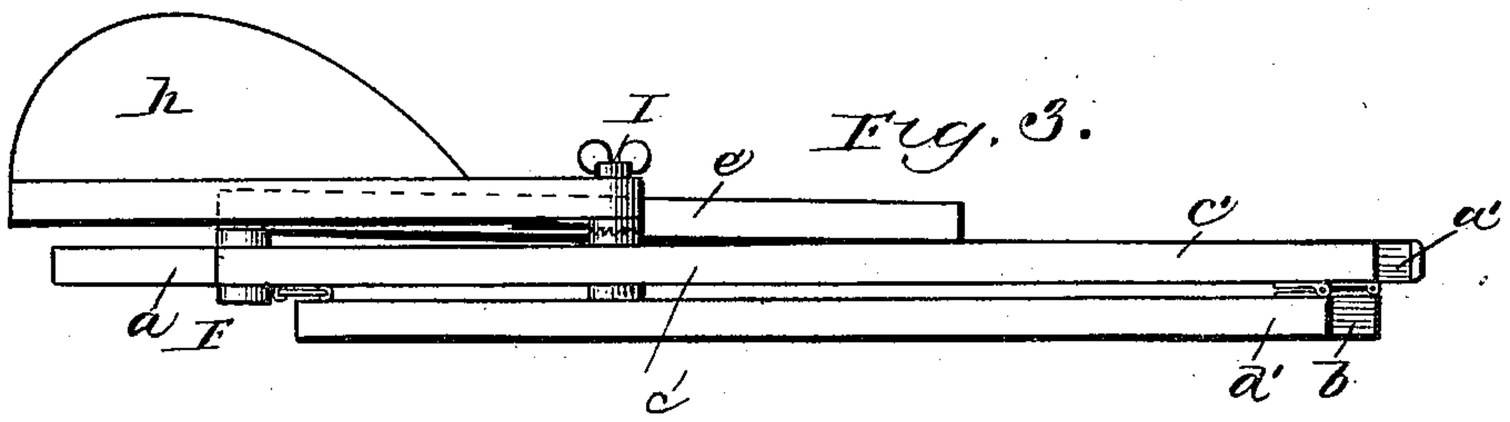

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Fig. 7.

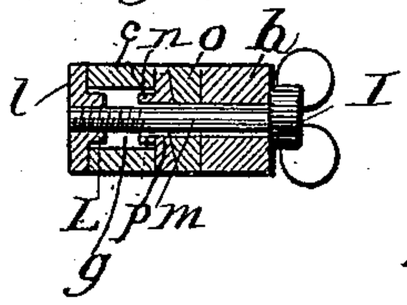


Fig. 5.

Fig. 4.

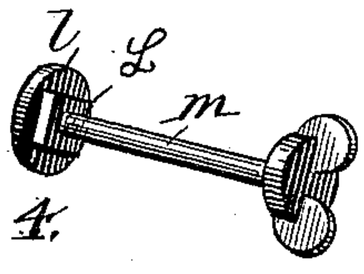
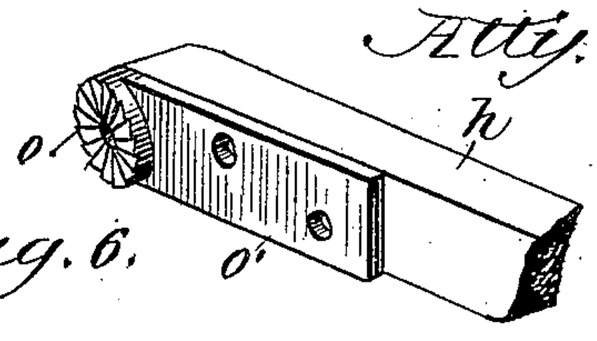


Fig. 6.



UNITED STATES PATENT OFFICE.

MARIE AUGUSTA CAMPBELL, OF CHICAGO, ILLINOIS.

ADJUSTABLE PILLOW OR BODY-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 420,860, dated February 4, 1890.

Application filed February 18, 1889. Serial No. 300,348. (No model.)

To all whom it may concern:

Be it known that I, MARIE AUGUSTA CAMPBELL, a subject of the Queen of Great Britain, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Adjustable Pillows or Body-Supports, of which the following is a specification.

My invention relates to new and useful improvements in adjustable pillows or body-supports for invalids; and it consists in certain peculiarities of the construction and arrangement of the same, as will be hereinafter more fully set forth, and specifically claimed.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of my invention. Fig. 2 is a side view of the farther side of my device when folded, as seen from the inside. Fig. 3 is a plan view of the same. Figs. 4, 5, and 6 are detail views of the arm-locking device; and Fig. 7 is a cross-section taken through the arm-locking device, and showing the construction of the same.

My invention is designed more especially for the use of invalids, and to afford them easy and restful positions by elevating or lowering the body to any desired angle, and also to provide for the convenience of the occupant a table or desk for writing or other purposes. I attain these objects by employing the following construction:

In the drawings, *a a'* represents the side pieces of the foundation or supporting frame of my invention, and *b* the brace or end piece for securing the same.

A is the upper or adjustable frame, which is provided with a suitable body-supporting surface B, of any desired material, but preferably of woven wire-cloth or canvas, which may be connected to the frame A by any suitable or convenient means.

c c' are the side pieces of the said upper frame, and *d d'* the braces or end pieces thereof.

e e' are the supporting-arms, which are connected at upper ends to the side pieces *c c'* of the frame A, at a short distance from the top, by means of a hinge or rivet, and at their lower ends to the side pieces *a a'* of the bottom frame by a sliding and adjustable clamp H, with set-screw *f'*, as will be more apparent by reference to the drawings.

The braces *b d d'* are suitably hinged, as at *z*, at one of their ends to the side pieces *a' c c'*, respectively, and are removably connected to their respective opposite side pieces by means of a hook *z'* and eye z^2, or otherwise, thus permitting them to be folded when not in use.

In each of the side pieces *c* and *c'*, I provide a longitudinal slot *g*, of proper length for the reception and adjustment of the arm-rests *h h* by means of the locking device I, the operation of which will presently be explained. To the lower end of each of these side pieces is loosely secured a sliding and adjustable clamp F, having its upper and lower ends bifurcated and provided with a set-screw *f* for engagement with the foundation-frame, as will be seen and readily understood in Fig. 1 of the drawings.

K represents a removable table, which extends from one arm-rest to the other and affords the occupant a table or desk for writing or other purposes. On the under side of said table I provide small dowel-pins *x x*, to be inserted in the holes *x' x'* therefor in the arm-rests, as seen in Fig. 1 of the drawings.

In Figs. 4, 5, and 6 I have shown in detail a locking device, which I prefer to use to secure and adjust the arm-rests *h h* to the side pieces *c c'* of the frame A.

L is a square metal nut, having a flange *l*, which nut fits in the slot *g* on the inside of the pieces *c c'*.

m is a screw-rod having on one end a thumb-piece and at the other end screw-threads to engage with the nut L.

n is a square washer having a flange *p*, serrated on its opposite side from the square washer, which serrations engage with similar serrations on disk *o*, as seen in Fig. 3. The washer *n* fits into the slot *g* on the outside of the pieces *c c'*, opposite the nut L, both of which, it will be seen, can be readily slid up or down in the slot *g*, but cannot be turned therein. The disk *o* has an extension *o'*, provided with holes, and is secured to the arm-rests *h h* by means of screws, as is obvious. The screw-rod is inserted through the holes

in the disk *o* and washer *n* and slot *g* into nut L and turned, which operation will force together washer *n* and disk *o*, thus engaging the serrations on each and locking the arm-rest at any desired angle.

In constructing my device I preferably use light strong wood for the frame-work, it being lighter and less expensive than iron; and while I prefer the above-described locking device it will be readily seen that, instead of using the foundation-frame *a a'*, I can attach my device to the side-boards of the bedstead and the result will be equally as good, and in order to do this and to prevent marring the furniture I have provided the set-screws *f f'* with rubber tips on the ends which press against the furniture.

In operation my invention is very simple. The frame *a a'* is placed on the upper surface of the mattress or bed and the adjustable back or body-support A is raised to any desired incline and held in said position by securing the supporting-arm to the foundation-frame (or side-boards of bed) by the clamps H. The arm-rests *h h*, or either of them, are raised to the proper position and secured by the locking devices I, when the table K can be placed thereon, if desired. When it is desired to remove the device, the clamps H are loosened and the supporting-arms are slid toward the front, the braces *b d d'* are unfastened, and the whole device is then folded into a compact form, as shown.

It is obvious that the arm-rests may be raised or lowered to suit the occupant by loosening the locking device and sliding them either up or down.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an adjustable pillow or body-support, the combination of the frame A, consisting of the side pieces *c c'*, and braces *d d'*, hinged together at one of their ends, as at *z z*, and removably connected at their other ends by hooks *z'* and eyes z^2, and provided with a flexible body-supporting surface B, with the foundation-frame connected thereto by the adjustable brackets F and by the adjustable arms *e e'*, substantially as shown and described, and for the purpose set forth.

2. In an adjustable pillow or body-rest, the frame A, adjustably connected to the foundation-frame by means of clamps F F, having set-screws *f f*, having the side pieces *c c'*, formed with the slots *g g*, and adjustably-supporting arms *e e'*, end pieces *d d'*, hinged at one of their ends to the pieces *c c'*, as at *z z*, and removably connected thereto at their other ends by hooks *z'* and eyes z^2, the whole being provided with a supporting-surface B, in combination with arm-rests *h h*, connected to side pieces *c c'* by means of adjustable locking devices I, operating in the slots *g*, substantially as shown and described, and for the purpose set forth.

3. In an adjustable pillow or body-rest, the combination of the frame A, provided with a supporting-surface B, and formed of the side pieces *c c'* and end pieces *d d'*, hinged at one of their ends to the pieces *c c'*, as at *z z*, and removably connected at their other ends to the side pieces *c c'* by hooks *z'* and eyes z^2, the hinged folding foundation-frame *a a' b*, the pivoted supporting-arms *e e'*, having the clamps H, provided with set-screws *f'*, the lower ends of the frame A, having clamps F, provided with set-screws *f*, and being adjustably and pivotally connected to the frame *a a' b*, by the clamps F, all arranged and operating as shown and described, and for the purpose set forth.

4. In an adjustable pillow or body-rest, the combination of the frame A, provided with a supporting-surface B, and formed of the side pieces *c c'*, provided with slots *g g*, the arm-rests *h h*, the locking devices I, and end pieces *d d'*, hinged together at one of their ends and removably connected at their other ends to the pieces *c c'*, the foundation-frame, the pivoted supporting-arms *e e'*, having the clamps H, provided with set-screws *f'*, the lower ends of the frame A being adjustably and pivotally connected to the foundation-frame by the clamps F, the removable table K, having dowel-pins on its under side, all arranged and operating substantially as shown and described, and for the purpose set forth.

5. In an adjustable pillow or body-rest, the combination of the nut L, provided with a flange *l*, and the washer *n*, having the serrated flange *p*, the serrated disk *o*, having the extension *o'*, the arms *h h*, secured to the parts *o' o'*, the screw-rod *m*, provided at one end with a thumb-piece and screw-threaded at the other for engagement with the nut L, all forming a locking device with the frame A, having the sides *c c'*, provided with the slots *g g*, all constructed, arranged, and operating substantially as shown and described, and for the purpose set forth.

6. In an adjustable pillow or body-rest, the combination of the nut L, provided with flange *l*, and the washer *n*, having the serrated flange *p*, the serrated disk *o*, having the extension *o'*, and the screw-rod *m*, provided at one end with a thumb-piece and at the other with screw-threads to engage with nut L, all forming a locking device, substantially as and for the purpose set forth.

7. In an adjustable pillow or body-rest, the combination of the removable table K, provided with dowel-pins *x x* on its under side, with the frame A, having side pieces *c c'*, provided with slots *g g*, the braces *d d'*, the arm-rests *h h*, provided with holes *x' x'*, the supporting-arms *e e'*, the adjustable clamps F F, having set-screws *f f*, the supporting-surface B, substantially as and for the purpose set forth.

8. In an adjustable pillow or body-rest, the frame A, having side pieces *c c'*, and end pieces *d d'*, hinged at one of their ends and

removably connected at their other ends to the side pieces *c c'*, and arms *e e'*, the whole being provided with the foundation-frame, a supporting-surface B, in combination with the arm-rests *h h*, connected to side pieces *c c'* by means of adjustable locking devices, the lower ends of frame A having clamps F, and being adjustably secured to foundation-frame *a a'* by means of clamps F, having set-screws *f*, substantially as shown and described, and for the purpose set forth.

In witness whereof I have set my hand and seal this 5th day of February, 1889.

MARIE AUGUSTA CAMPBELL. [L. S.]

Witnesses:
DANIEL A. RAY,
CHAS. C. TILLMAN.