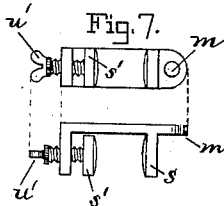
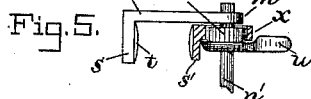
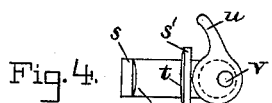
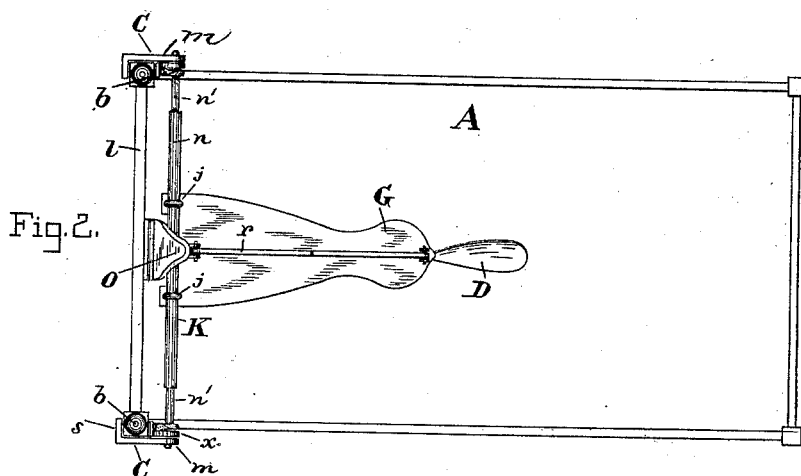
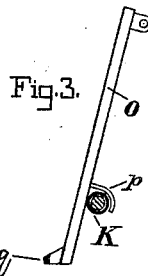
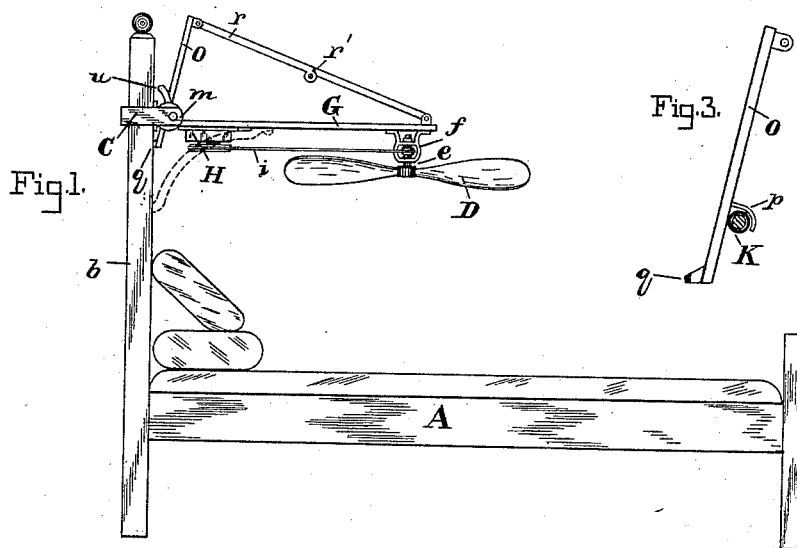


(No Model.)

A. H. HIEATZMAN.
PORTABLE FAN FOR BEDSTEADS.

No. 418,463.

Patented Dec. 31, 1889.



WITNESSES:

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ARTHUR HOWARD HEATZMAN, OF BALTIMORE, MARYLAND, ASSIGNOR OF
ONE-HALF TO JAMES M. DEEMS, OF SAME PLACE.

PORTABLE FAN FOR BEDSTEADS.

SPECIFICATION forming part of Letters Patent No. 418,463, dated December 31, 1889.

Application filed July 1, 1889. Serial No. 316,243. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR HOWARD HEATZMAN, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in a Portable Fan for Bedsteads, of which the following is a specification.

This invention relates to a fan for bedsteads.

10 The object of the invention is to provide a portable fan with suitable clamps and adjustable parts to adapt it for direct attachment to any bedstead, as hereinafter described.

The invention is illustrated in the accompanying drawings, in which—

15 Figure 1 is a side view of a bedstead with the fan attached. Fig. 2 is a top view of same. Fig. 3 is a side view of the brace-bar on a larger scale. Figs. 4 and 5 are side and top views (the latter partly in section) of one of the clamps. Fig. 6 is a view of the suspension-bar. Fig. 7 shows two views of a modified form of clamp.

25 The ordinary bedstead A has head-posts *b*, and the supports of the fan are attached to the posts by clamps C.

30 The fan D is preferably of the revolving pattern and turns on the spindle *e*, which has bearings *f* attached to the board or arms G, which also has a spring clock-work motor H. An endless cord *i* connects the pulley of the motor with the spindle *e* of the fan. It is unnecessary to describe the mechanism of the motor, as any such motor now in use may be employed. Furthermore, it may be remarked that the fan may be driven by any preferred power, such as a water or an electric motor. The supporting-arm G, at the opposite end from the fan, has two hooks *j*, which take over a suspension-bar K, extending horizontally across the front of the head-board *l*, and serve as hinges. The ends of the suspension-bar are supported in bearings *m*, attached to the clamps C. The suspension-bar K is extensible—that is, capable of being lengthened or shortened—so as to fit beds of varying width. This extensible feature is obtained by a tubular center *n* and two end rods *n'*, each inserted in an opposite end of the said tube, as shown. A brace-bar O has

one or more hooks *p*, which take over the suspension-bar K, and the lower end of the brace-bar sets down between the suspension-bar and head-board *l*, and the bar has an inclined position. A cushion *q* on the extremity of the lower end prevents the head-board from being marred. The top of the brace-bar O and the fan-supporting arm G have a suitable connection *r*. This connection in the present instance consists of a jointed rod *r*, and serves to sustain the arm G. The joint *r'* in the rod may be bent or thrown up, and thus the arm G and fan D may be raised to get it out of the way when it is desired to “make up” the bedding. This plan of securing the brace-bar O, with its lower end below the suspension-bar K, gives it stability and fixedness, and thereby the arm G and fan D are properly supported directly over the occupant of the bed.

70 The clamps C, for gripping the posts *b* of the bedstead, each have a jaw *s* attached rigidly to the same plate that forms the bar-bearing *m* and also a movable jaw *s'*. These jaws are faced with a suitable cushion *t* to prevent marring the posts. The clamp (shown in Figs. 1, 2, 4, and 5) is tightened by a cam-lever *u*. This cam-lever has a hole *v*, and the end of the suspension-bar K passes through this hole and also through the bearing *m*, and thereby the cam-lever is pivoted on the end of the suspension-bar. The eccentric circular head *w* of the cam-lever fits in a ring *x*, attached to the movable jaw *s'*. By this construction the clamp-jaw *s'* will be moved upon partly turning the lever *u*. This clamp will fit bed-posts of varying breadths. A modification in the construction of the clamp is shown in Fig. 7. Here a set-screw *u'* is employed to move the jaw *s'*. It is obvious that different forms of clamps may be employed. It is therefore unnecessary to illustrate other modifications. Instead of the upper brace-bar O and rod *r*, connecting with the arm G, I may use a lower brace like an ordinary bracket-brace, as indicated by broken lines in Fig. 1.

This fan will fit any bedstead. It may be readily put up and taken down, and when attached to a bed it may easily be raised above

its normal position to give unobstructed access to the bed clothing when it is desired to make up the bed.

Having described my invention, I claim—

5 1. In a portable fan for bedsteads, the combination of the arm G, the fan D, journaled in one end of said arm, the suspension-bar K, the clamps C, in which said bar has bearings, the brace-bar O, and the connecting-rod r,
10 with clamp mechanism, as described, whereby the suspension-arm is held in position over the bed, substantially as specified.

2. In a portable fan, the combination, with the arm G, secured to the extension-bar K by
15 means of hooks j, of the jointed bar r, brace-arm O, clamps C, and cam-lever u, whereby the arms G and r and the bar O are held in an adjusted position, substantially as set forth.

20 3. In a portable fan for bedsteads, the com-

bination, with the arm G, suspension-bar K, and jointed arm r, and clamps C, of the cushion q, secured to the end of the brace-bar O, to bear against the head-board of the bed and prevent injury to the same, as set forth. 25

4. The combination, in a fan for bedsteads, of the arm G, fan D, and fan-actuating mechanism, as described, the jointed arm r, brace-bar O, having a cushion q, to bear against the head-board of the bed, and the cam-lever u, 30 whereby the parts are tightened to hold the arms G and r and the bar O in an adjusted position, substantially as and for the purposes specified.

In testimony whereof I affix my signature in 35 the presence of two witnesses:

ARTHUR HOWARD HEATZMAN.

Witnesses:

JOHN E. MORRIS,

A. O. BABENDREIER.