

(No Model.)

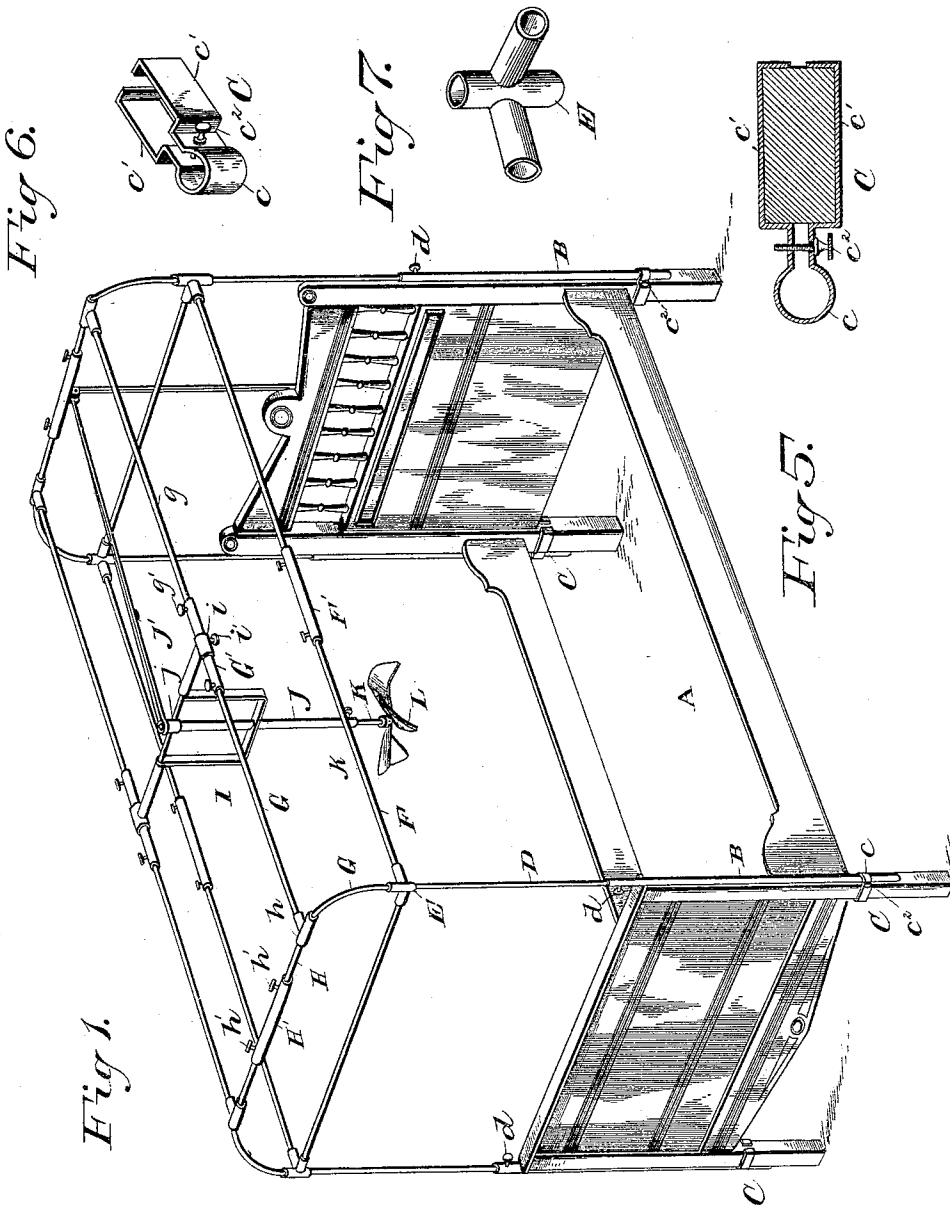
2 Sheets—Sheet 1.

W. N. SHERMAN.

ADJUSTABLE VENTILATING CANOPY FRAME FOR BEDS.

No. 493,305.

Patented Mar. 14, 1893.



Witnesses

Paul W. Stevens
Clerk J. L. Luce

Inventor

W. N. Sherman

By his Attorney

J. R. Little

UNITED STATES PATENT OFFICE.

WALTER N. SHERMAN, OF MERCED, CALIFORNIA.

ADJUSTABLE VENTILATING CANOPY-FRAME FOR BEDS.

SPECIFICATION forming part of Letters Patent No. 493,305, dated March 14, 1893.

Application filed January 2, 1892. Serial No. 416,840. (No model.)

To all whom it may concern:

Be it known that I, WALTER N. SHERMAN, a citizen of the United States, residing at Merced, in the county of Merced and State of California, have invented certain new and useful Improvements in Adjustable Ventilating Canopy-Frames for Beds; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to canopy frames for beds, and it has for its object to provide a simple and improved frame of this character, embodying in its construction an adjustable ventilating fan.

With these and other objects in view, my invention consists, substantially, in the construction, combination and arrangement of parts, as will be hereinafter more fully described and particularly pointed out in the claims.

In the drawings—Figure 1 is a perspective view of a bed with my improved frame applied thereto. Fig. 2 is a vertical transverse sectional view taken through the frame. Fig. 3 is a detail longitudinal sectional view of one of the adjustable horizontal rods. Fig. 4 is a vertical sectional view taken through one of the arches of the frame. Fig. 5 is a transverse sectional view taken through one of the bed posts and illustrating the manner of securing the uprights thereto. Figs. 6 and 7 are detail perspective views respectively of one of the securing clasps and connecting devices.

Corresponding parts in all the figures are denoted by the same letters of reference.

Referring to the drawings, A designates the bed, at suitable points at or near the four corner posts of which are rigidly secured uprights, B, consisting of metallic tubes of any desired shape. The uprights B are attached to the bed by means of clasps, C, which are constructed of flat strip metal, preferably malleable brass, each of which is bent at its center to form a collar, *c*, adapted to embrace said uprights. From the collar *c*, the ends of the clasps are bent outwardly and thence inwardly, extending parallel to each other, and the extreme ends finally bent inwardly, thus forming two clamping arms, *c'*, *c'*, for

engaging the bed posts. To bind the clasps in position, a set-screw, *c*², is passed transversely through each of the same between the collar *c* and arms *c'*, the screw aperture at one side of the clasp being threaded.

Fitting and sliding within the uprights B are smaller tubes, D, forming when extended a continuation of the former. The tubes D are retained in adjusted position by means of set-screws, *d*, or other similar binding devices, said screws passing through threaded apertures in the tubes B near their upper end, and adapted to be bound tightly against the tubes D. At the upper end of each of the latter tubes is removably secured a connecting device, E, approximately cross-shaped, and preferably having four open ends each of which being internally screw-threaded to receive the threaded ends of the uprights and connecting rods.

F designates horizontally-disposed side and end rods, designed to be attached at their ends to the opposing devices E. The rods F each consist of two tubular sections, of corresponding diameter, said sections being connected by a tubular sleeve, F', receiving the same, and provided at each end with a set-screw, *f*, for securing the rods in adjusted position.

At each end of the frame and within the upper ends of the connecting devices E is removably secured a curved rod, G, each pair of which opposing each other and terminating at their free ends in horizontal extensions, *g* *g*. The latter are connected by a sleeve, G', provided at its ends with set-screws, *g'* *g'*. The sleeves G' are also connected at their respective ends through the medium of collars, *h* *h*, by longitudinally-arranged, parallel rods, H H, said rods being likewise adjustable by means of connecting sleeves, H' H', having set-screws, *h'* *h'*.

I designates a longitudinally-adjustable frame provided with end collars, *i* *i*, encircling and sliding upon the sleeves G', and adapted to be bound thereto by set-screws, *i'* *i'*. Within this frame is journaled a tubular shaft, J, carrying a band-wheel, *j*, around which passes a band, J', the latter communicating a rotary movement to the shaft from any suitable or desired motor. An extension, K, fits within the shaft J, and carries at its

lower end a rotary fan, L. The extension K is adapted to be adjusted vertically within the shaft J, and to retain the same in adjusted position, a set-screw, k, is passed through one side of the shaft at its lower end. Thus by the construction just described the fan may be moved to any longitudinal or vertical position with relation to the bed which may be desired.

10 The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains. The frame is first regulated to the size of the bed to which it is to be attached by the adjustment of the rods F, G and H, to bring the uprights nearer to or farther from each other as is necessary. The uprights are then secured to the bed in the manner described, and the height of the frame regulated by the adjustment of the tubes D, after which the desired character of canopy is placed over the frame. To disconnect the parts comprising the frame, the rods F, G and H and tubes D are unscrewed from the connecting devices E and the sections comprising said rods and the uprights either adjusted to their shortest length or disconnected, in the latter event the sections of the rods being removed from the connecting sleeves. When thus disassembled all the parts comprising the frame may be readily packed or stored in a minimum amount of space.

30 It will be understood that the shape and detail construction of the frame may be va-

ried in part if desired, without departing from the spirit and scope of my invention. For instance, the rods G and H may be entirely dispensed with, in which event the fan frame may be carried by the longitudinal rods F. I therefore reserve the right to this and all other modifications which fall within the province of my invention.

I claim as my invention—

1. The combination, with a canopy frame comprising two parallel, horizontally and longitudinally disposed rods, of a frame carried thereby and adjustable longitudinally with relation thereto, a tubular shaft journaled in said frame, a vertically-adjustable extension sliding within said shaft and carrying a rotary fan, and means for locking said frame and shaft-extension in adjusted position; substantially as and for the purpose set forth.

2. The combination, with a canopy frame comprising two parallel, horizontally-disposed rods, of a frame disposed transversely between said rods and provided at its ends with collars encircling the latter, set-screws for binding the collars to the rods, and a vertical rotary shaft journaled in said frame and carrying a fan at its lower end; substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WALTER N. SHERMAN.

Witnesses:

H. E. STEMLER,
N. L. A. CODY.