

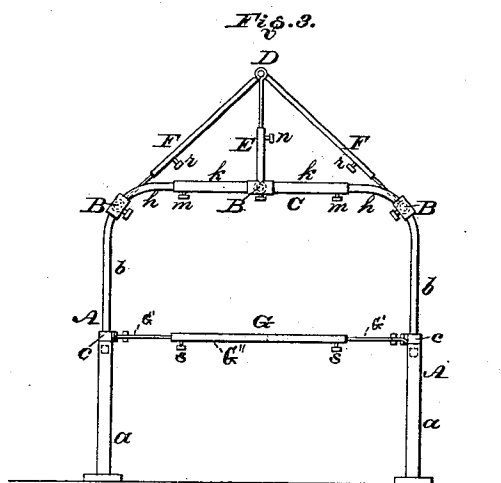
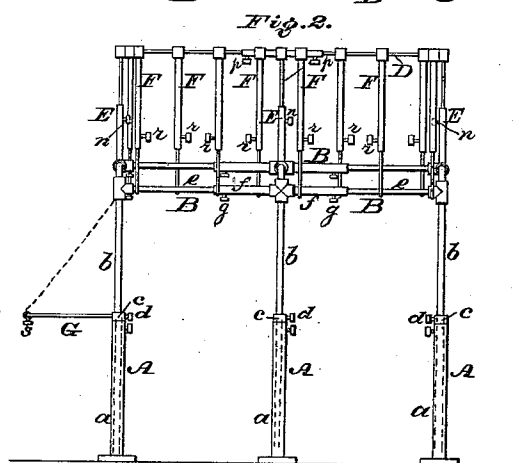
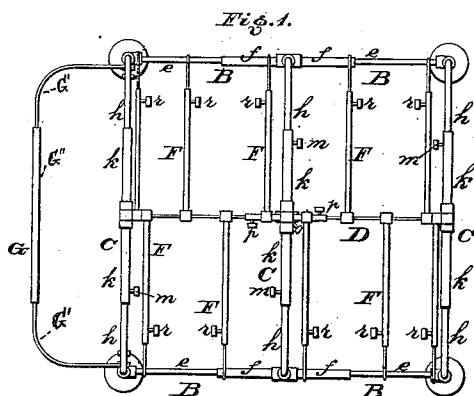
(No Model.)

W. B. GARVER.

FRAME FOR CANOPIES, &c.

No. 246,118.

Patented Aug. 23, 1881.



Witnesses:

A. P. Grant,

H. F. Kircher

Inventor:

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 Wiley B. Casper,
 by John A. Fiedersheim
 Attorney.

UNITED STATES PATENT OFFICE.

WESLEY B. GARVER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF TWO-THIRDS TO JOHN W. FLETCHER AND EDWARD VARIAN, BOTH OF SAME PLACE.

FRAME FOR CANOPIES, &c.

SPECIFICATION forming part of Letters Patent No. 246,118, dated August 23, 1881.

Application filed May 19, 1881. (No model.)

To all whom it may concern:

Be it known that I, WESLEY B. GARVER, a citizen of the United States, residing in the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Frames for Canopies, Awnings, Tents, &c., which improvement is fully set forth in the following specification and accompanying drawings, in which—

10 Figure 1 is a top or plan view of the frame embodying my invention. Fig. 2 is a side elevation thereof. Fig. 3 is an end view thereof.

Similar letters of reference indicate corresponding parts in the three figures.

15 My invention consists of a frame for canopies, awnings, &c., rendered adjustable in height, length, and width by means of the construction and combination of parts hereinafter set forth.

20 It also consists in the construction and combination of the adjustable parts forming the peak of said frame, and in certain other details of construction and combination, hereinafter set forth and claimed.

25 It also consists of an adjustable support for the bonnet of the canopy, &c.

Referring to the drawings, A represents the uprights or standards of the frame, consisting of the parts *a b*, fitted to each other telescopically. On each part *b* is placed a sleeve, *c*, which is provided with a set-screw, *d*, and adapted to be raised and lowered on said part *b*, whereby the height of the frame may be adjusted, the screws *d* holding the parts in their

35 adjusted positions. B represents longitudinally-extending horizontal beams, consisting of parts *e f*, which are fitted to each other telescopically, the upper ends of the upright portions *b* being secured by proper T's or couplings to said parts *e f*. The beams B may be lengthened or shortened, so that the frame may be adjusted in depth or length, and provided with set-screws *g* for holding the parts in adjusted positions.

45 C represents transversely-extending horizontal beams, consisting of the parts *h k*, which are fitted to each other telescopically, and

coupled or connected to the beams B, said beams C being adapted to be lengthened or shortened, so that the frame may be adjusted 50 in width, and provided with set-screws *m*, for holding the parts in adjusted positions.

D represents the ridge-pole, which is supported by king-posts E resting on the transverse beams C, and by rafters F, whose upper ends are fitted loosely to said pole, and the lower ends are fitted loosely to the side beams, B. The ridge-pole, posts, and rafters are each formed of parts fitted to each other telescopically, whereby the ridge-pole may be adjusted 60 as to the depth or length of the frame, the posts E raised or lowered relatively to the desired height of the ridge-pole, and consequently of the peak, and the rafters may be lengthened or shortened relatively to requirements of adjustment of the connected parts. 65 Set-screws *n* are connected to the king-posts, set-screws *p* to the ridge-pole, and set-screws *r* to the rafters, for holding the respective parts in adjusted position. 70

When the several parts of the frame are adjusted the covering or canvas may be applied, and it will be seen that I provide a strong, light, and serviceable structure for the purposes of a canopy, awning, tent, &c., which may be afterward conveniently taken down and again set up, as desired. 75

G represents a support for the bonnet of the canopy, &c., (shown in dotted lines, Fig. 2,) said bonnet being formed of parts or pieces 80 G' and sleeve G'', fitted to each other telescopically, so as to be adjusted relatively to the width of the frame, set-screws *s* being provided for holding the parts in adjusted position. The support G is also vertically adjustable by being connected to collars *e*, fitted on the parts *b* of the uprights or standards A. 85

In practice the several parts are formed of metal, which may be tubular throughout.

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

1. The frame formed of the parts *a b e f h k* and set-screws *d g m*, whereby it is adjusta-

ble in width, length, and height, substantially as and for the purpose set forth.

2. The peak formed of the parts D E F and set-screws *n p r*, whereby it is adjustable in
5 width, length, and height, substantially as and for the purpose set forth.

3. In a canopy-frame, the rafters F, formed of adjustable parts connected to the ridge-pole and beams of the frame, and provided with the
10 set-screws *r*, substantially as and for the purpose set forth.

4. The frame A, in combination with the bonnet-support G, formed of the pieces G' and sleeve G'', the set-screws *s*, and collars *c*, with screws *d*, substantially as set forth.

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Witnesses:

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