

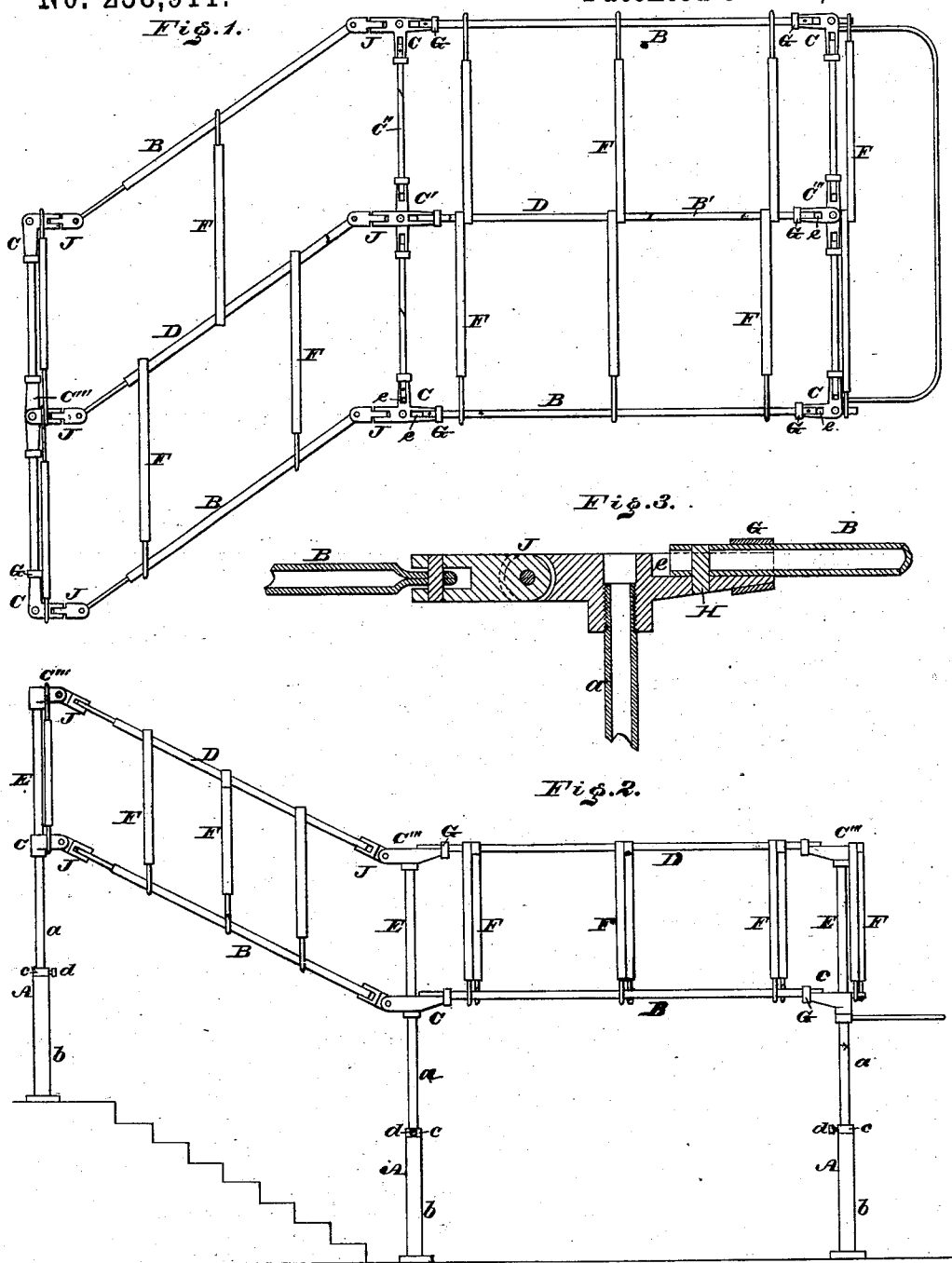
(No Model.)

W. B. GARVER & E. VARIAN.

FRAME FOR CANOPIES, AWNINGS, OR TENTS.

No. 258,911.

Patented June 6, 1882.



WITNESSES:

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INVENTORS

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WESLEY B. GARVER AND EDWARD VARIAN, OF PHILADELPHIA, PA.

FRAME FOR CANOPIES, AWNINGS, AND TENTS.

SPECIFICATION forming part of Letters Patent No. 258,911, dated June 6, 1882.

Application filed February 4, 1882. (No model.)

To all whom it may concern:

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

Figure 1 is a top or plan view of the frame for canopies, &c., embodying our invention, a portion thereof being broken away. Fig. 2 is a side elevation thereof. Fig. 3 is a section of a detached part enlarged.

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

Our invention relates to improvements in the frames for canopies, &c., the subject-matter of the Letters Patent No. 246,118, granted August 23, 1881, the present invention consisting of means whereby the frame may be easily set up and connected and afterward readily taken down, and when set up it may be adjusted relatively to the height of steps, pavements, sidewalks, and streets, irregular places, &c., as will be hereinafter set forth.

Referring to the drawings, A represents the adjustable uprights or standards of the frame, consisting of the parts *a b*, fitted to each other telescopically, the sleeves *c*, and set screws *d*.

B represents longitudinally-extending horizontal beams, which are connected to couplings C at the top of the standards A; and B' represents similar beams, which are connected to couplings C' at the center of the cross-beams C'' of the top of the standards.

D represents the ridge-poles, which, connected to the couplings C''', are supported by king-posts E, rising from and connected to the central couplings, C'; and F represents rafters, whose ends are fitted to the ridge-pole and the side beams, B. The couplings are formed with sockets *e*, on which the ends of one set of the beams B B' and ridge-poles D are rested. Then sleeves G, fitted on said beams, are slipped over the sockets, the surface of the latter being tapering or conical, so

that the sleeves may be tightened on the sockets, and the beams and poles and couplings securely clamped, thus preventing vertical displacement of the beams and poles. Through the beams and sockets are passed pins or plugs H, which may, however, be connected to the beams and project into openings in the sockets, or vice versa, by which means longitudinal displacement of the beams is prevented and the strength of the frame increased. The couplings have connected to them on the side opposite to the sockets *e* knuckle-joints J, to which the other set of the beams B B' and ridge-poles D are pivoted. This permits said set to be raised and lowered and moved laterally, whereby either end or section of the frame may be adjusted relatively to steps and different heights of localities where the frames are employed, irregular places, &c.

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

1. The standards and horizontal beams, in combination with the couplings, which are provided with sockets *e*, the plugs H, and sleeves G, substantially as and for the purpose set forth.

2. The standards, horizontal beams, ridge-poles, couplings with sockets, king-posts, plugs, and sleeves, combined and operating substantially as and for the purpose set forth.

3. The frame for canopies, &c., formed of standards and horizontal beams, having couplings C and knuckle-joints J, said couplings C being connected to the standards and the joints J to the horizontal beams and the couplings, substantially as and for the purpose set forth.

4. The standards, horizontal beams, ridge-poles, couplings, knuckle-joints, and king-posts, combined and operating substantially as and for the purpose set forth.

WESLEY B. GARVER.
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Witnesses:

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