

(No Model.)

E. C. COOK.
Awning Frame.

No. 233,988.

Patented Nov. 2, 1880.

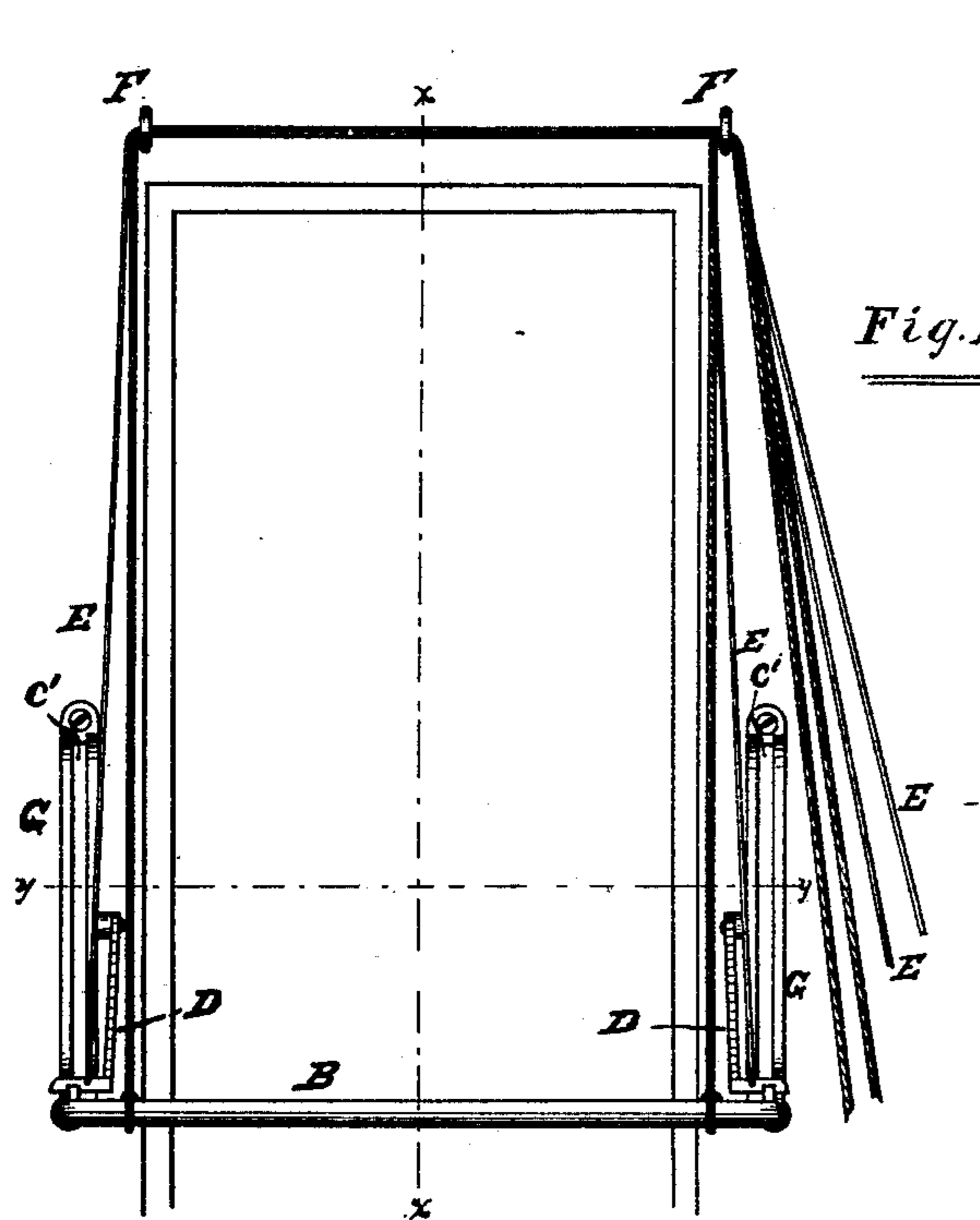


Fig. 1

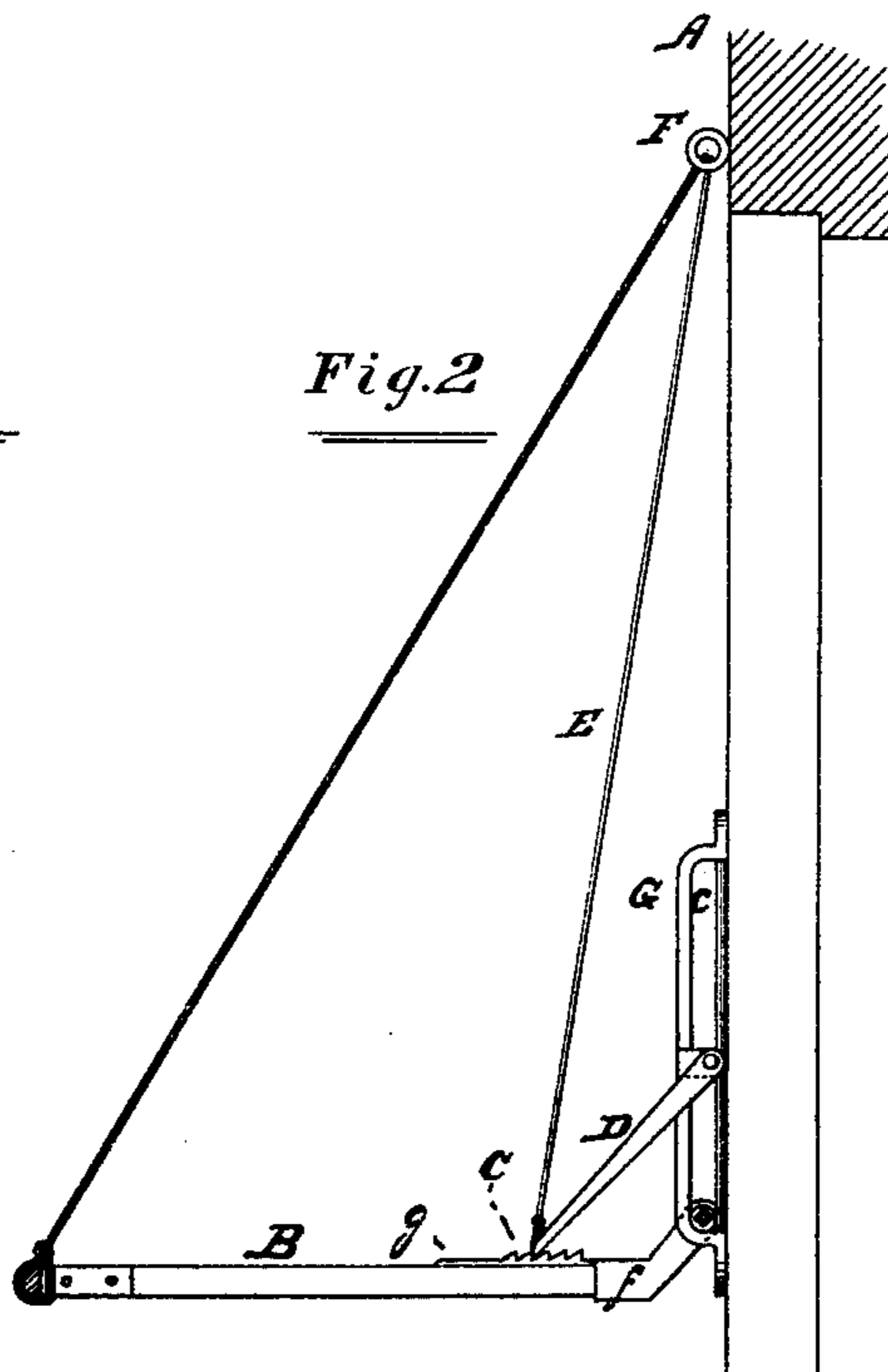


Fig. 2

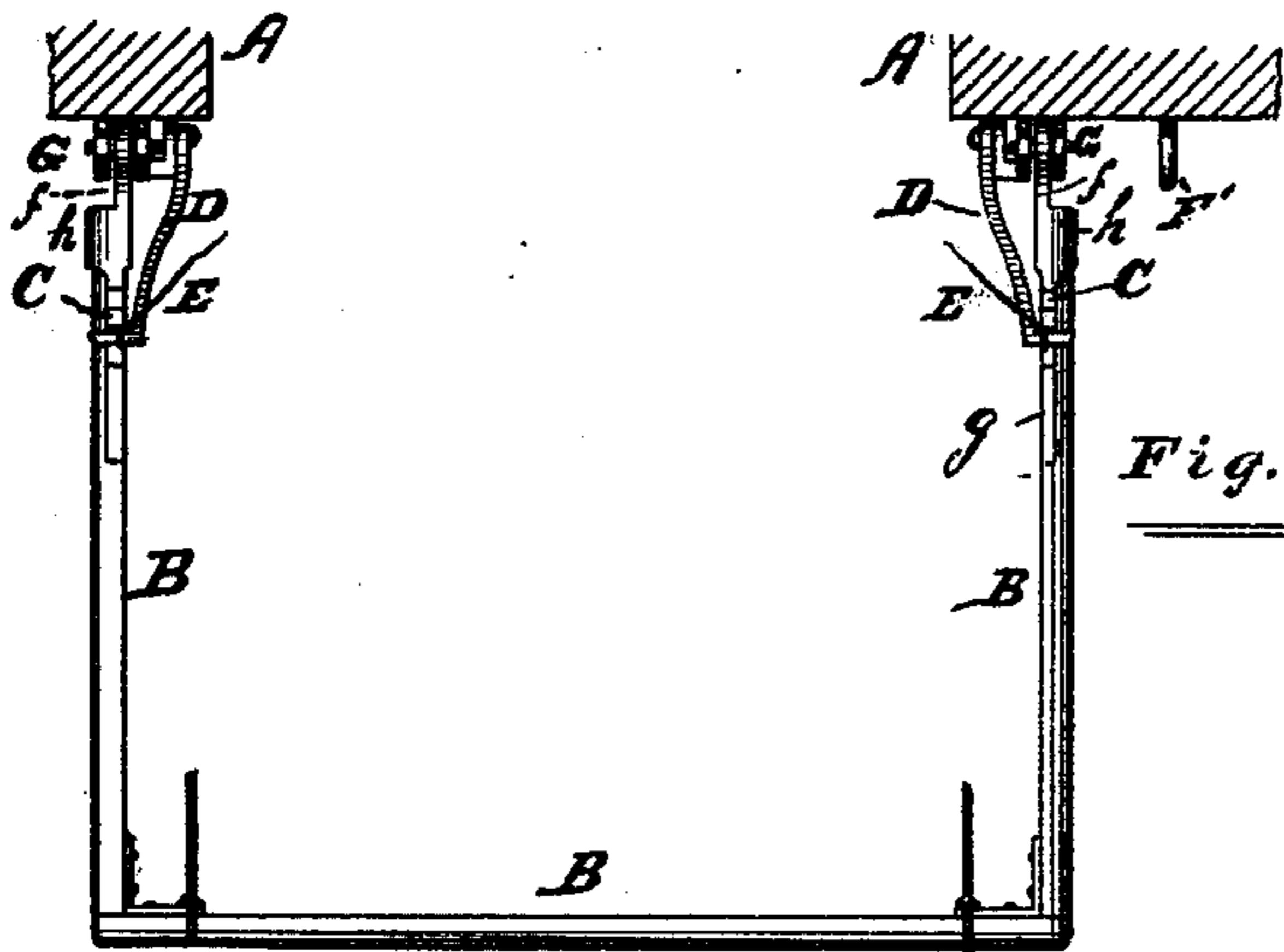


Fig. 3

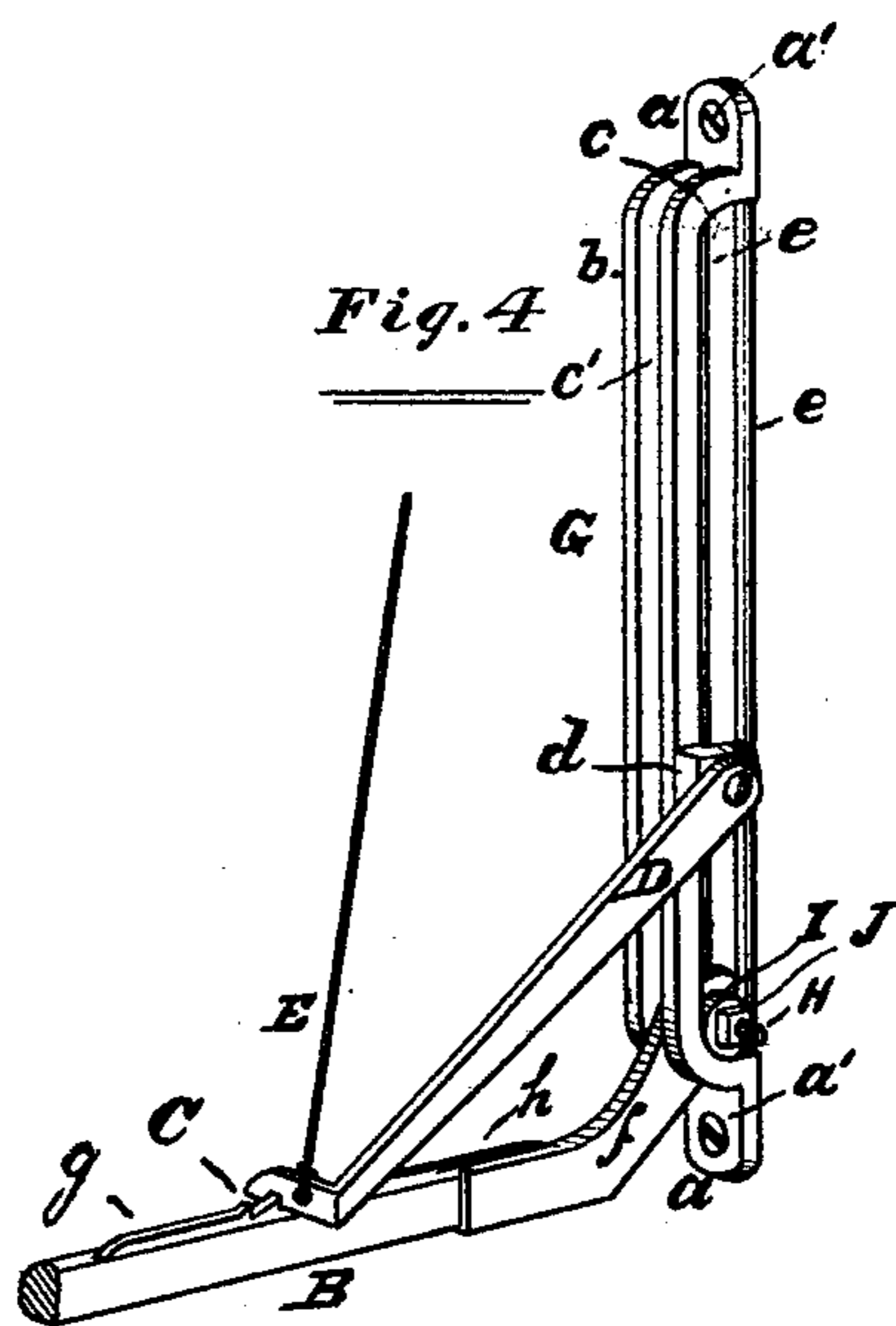


Fig. 4

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EGBERT C. COOK, OF CHICAGO, ILLINOIS.

AWNING-FRAME.

SPECIFICATION forming part of Letters Patent No. 233,988, dated November 2, 1880.

Application filed April 14, 1880. (No model.)

To all whom it may concern:

Be it known that I, EGBERT C. COOK, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful
5 Improvements in Awning-Frames, of which the following, in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a front view of an awning-frame embodying my invention;
10 Fig. 2, a section at *xx*; Fig. 3, a section at *yy*, and Fig. 4 a perspective of a part of the frame.

Like letters of reference indicate like parts.

The object of my invention is to prevent the swaying and rattling of the folding part of the
15 frame when exposed to wind, and to cause it to move freely and smoothly in the guides or wall-pieces of the frame; and to these ends my invention consists in the means, substantially as hereinafter described, which I employ
20 for the purposes respectively above set forth.

A represents the wall of a building. B is the horizontal or folding part of an awning-frame embodying certain features of my invention. C C are serrations on or near the
25 rear ends of the outwardly-projecting arms of the part B. D D are pawls, the lower ends of which are arranged to engage the serrations C C, and the upper ends of which are hinged to admit of engagement and disengagement
30 of the lower ends with the said serrations, and so that the engagement will occur automatically when the part B is lowered, the serrations being arranged as shown to prevent the raising of the part B during such engagement. E E
35 are cords attached to the lower ends of the pawls D D, and passing thence upward through eyes F F, attached to the building to which the awning is to be applied. From the eyes F F the cords E E pass downward, and may be tied
40 to any suitable fastening—F', for example—which will admit of the lower parts of the cords being reached with facility.

It will be perceived from the foregoing description and by reference to the drawings that
45 the part B, when lowered or suspended horizontally, or nearly so, cannot, owing to the engagement of the pawls D D with the serrations C C at that time, be swayed by the wind, and consequently that it will not be rattled in its bearings.
50 It will also be perceived that the disengagement of the pawls with the serrations may be

easily effected at any time by pulling the cords E E for that purpose, and that thereafter the part B may be raised and lowered in the usual manner. It will also be perceived that the en-
55 gagement will occur automatically when the awning is lowered, the cords E E being then left loose.

G G are the wall portions of the frame or the bearings or guides for the part B. I adapt
60 the parts G G for attachment to the wall by providing them with flattened portions or feet *a a*, through which the fastenings may be passed, as indicated at *a' a'*. *b b* are bars extending outwardly from the feet *a a*, or standing out
65 from the wall a little way, as indicated, thus leaving a space between them and the wall from end to end of each of the said bars, as shown at *c*. A vertical space, *c'*, exists also
70 between each bar.

For convenience in construction, a block, *d*, may be attached to each part G, to receive the pivot of the pawl D, operating in connection with each side of the part B.

Vertical rods *e e* may also be arranged be-
75 hind each bar *b b*, for the purpose hereinafter explained, the under faces of the feet *a a* being grooved to receive the ends of the said rods.

On the rear ends of the outwardly-projecting arms of the part B are flat metallic end
80 pieces, *f f*, adapted to pass into the spaces *c' c'*, or between the bars *b b*. H H are bolts, passing laterally through the rear ends of the end pieces, *f f*, and through disks I I, arranged on each side of the said end pieces, and held in
85 place by means of nuts J J, applied to one end of the said bolts.

For convenience of construction, the serrations C C may be made in a bar, *g*, cast in one and the same piece with the parts *f f*, and a
90 thimble, *h*, may exist at the junction of the bar *g* and the plates *f f*, for the purpose of receiving the rear ends of the forwardly-extending arms of the part B, all of which latter part I make, by preference, of wooden bars con-
95 nected in any suitable way; but I do not here intend to restrict myself to mere details of construction not essential to my invention.

It will be perceived that the pawls and serrations, operating together in the manner de-
100 scribed, will prevent the folding part B from being raised by the wind, and hence that a

great part of the noise heretofore produced for want of some means of prevention will be avoided.

It will also be perceived that the mode herein
5 described of connecting the rear ends of the part B to the wall-pieces G G will not only effect a firm connection, and thereby prevent breakage of glass, but also prevent noise heretofore made by the laterally-swaying move-
10 ment of the awning when exposed to the wind, for the plates *ff*, by passing between the bars *bb*, not only prevent such lateral movement, but the disks I I, which have a forward bearing against the bars *bb* and a rearward bearing
15 against the rods *ee*, will tend to prevent any noise heretofore caused by the forward and back or jerking movement of the awning. If the disks I I be made of rubber, leather, or similar material, (which, however, is not abso-
20 lutely essential,) the noise will be avoided to the greatest extent.

In practice I may prefer to cast the wall portions G G all in one piece, in which case I shall dispense with the rods *ee* and employ a
25 back piece in their stead, the said back piece extending from one foot *a* to the other, and being sufficiently wide to form a suitable back bearing or way for the disks I I, which is the function of the rods *ee*, and if, in such case, it
30 be deemed expedient to provide an equivalent for the space between the said rods, into which the rear ends of the parts *ff* may extend, a

vertical central groove may be made in the said back piece for that purpose.

The pawls D D may in some cases be oper- 35 ated without the cords E E. I would regard as the equivalents of the disks I I any lateral extensions at or near the rear ends of the plates *ff*, provided the function of such extensions be the same as that of the said disks when op- 40 erating in connection with the parts G G.

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

1. The combination, with the folding portion 45 of an awning-frame, of the serrations C C and pawls D D, substantially as and for the purposes specified.

2. The combination, in an awning-frame, of the wall portions G G, having thereon a rear 50 way or back bearing, and each provided with the vertical and parallel bars or guides *bb*, standing out from the said bearing, and the folding part B, having on its inner or rear ends the plates *ff*, adapted to pass between 55 the said guides, and provided at or near their rear ends with lateral extensions adapted to ride between the said guides and the said back bearing, substantially as specified.

EGBERT C. COOK.

Witnesses:

F. F. WARNER,
W. S. BAKER.