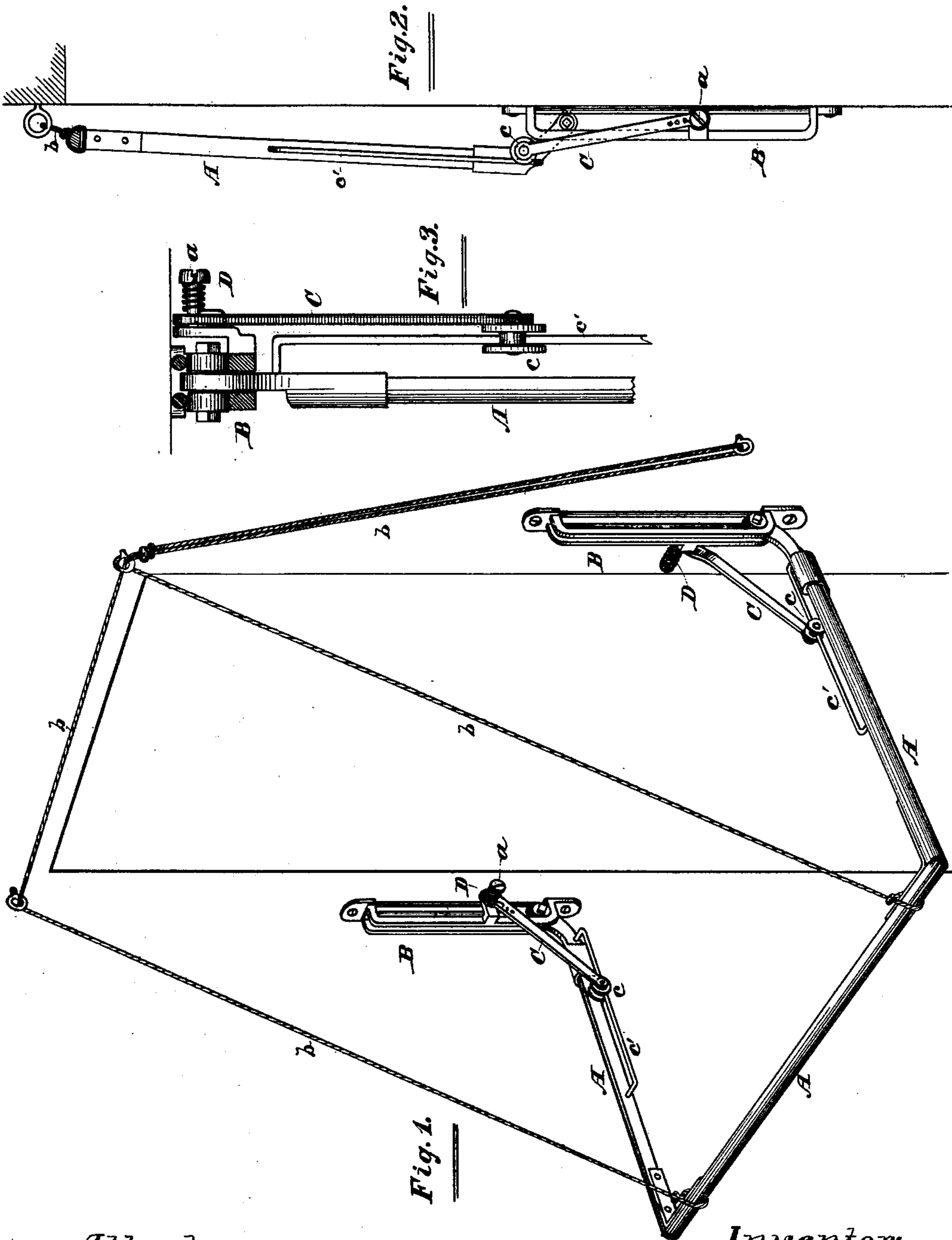


(No Model.)

E. C. COOK.
Awning Frame.

No. 233,987.

Patented Nov. 2, 1880.



Attest:

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UNITED STATES PATENT OFFICE.

EGBERT C. COOK, OF CHICAGO, ILLINOIS.

AWNING-FRAME.

SPECIFICATION forming part of Letters Patent No. 233,987, dated November 2, 1880.

Application filed July 13, 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 perspective of an awning-frame embodying my invention.
10 Fig. 2 is a vertical section thereof, and Fig. 3 is a detail of a portion of the same.

Like letters of reference indicate like parts.

In an application by me heretofore made for Letters Patent of the United States of Amer-
15 ica for improvement in awning-frames I set forth that that invention had for its object, among other things, the prevention of the swinging and rattling of the folding part of the frame when exposed to wind. The means
20 I employed for that purpose consisted of pawls pivoted to the wall-plates and engaging serrations on the outwardly-projecting arms of the frame, the pawls being controlled by means of cords.

25 The purpose of my present invention is to avoid the use of serrations and cords; and to that end it consists in making the pawls yielding and in employing them substantially in the manner hereinafter described.

30 In the drawings, A represents the folding part of the frame, and B B are the wall-plates. C C are pawls pivoted at their inner ends either to the wall-plates or to the wall, as may be deemed best—preferably, in my opinion, to
35 the wall-plates, as shown. The outer or forward ends of the pawls rest upon the forwardly-extending arms of the frame, and are made yielding, and yet are so arranged as to exert a downward pressure on the said arms. To
40 make the pawls so yielding I arrange spiral springs D D on the pins or studs *a a*, on which the pawls are freely mounted, one end of each of the said springs being fixed or attached to the said studs or to other fixed parts, and the
45 other ends being attached to the said pawls, as indicated in Fig. 3, the coil of the spring being such as to press the pawls down firmly at their outer ends upon the lateral arms of the frame.

It will be perceived from the foregoing de- 50
scription and from reference to the drawings that the frame of the awning will be prevented, by means of the pressure exerted by the springs and pawls, from being moved or shaken suffi-
ciently by the wind to be rattled thereby. 55

It will also be perceived that the frame may be raised in the usual manner by means of cords *b b*.

Furthermore, it will be observed, by refer-
ring to Fig. 2, that if the cords *b b* should be 60
slackened for the purpose of lowering the frame the springs and pawls will throw it into a horizontal position. The action of the pawls is automatic, and neither cords nor serrations
are required in connection therewith for ren- 65
dering them operative for the purpose for which they are intended.

To cause the pawls to ride easily on the frame I deem it preferable to provide their
free ends with anti-friction rollers or wheels 70
c c, and to place on the outwardly-extended arms of the frame the rails *c' c'*, adapted and arranged to receive the wheels *c c*.

Having thus described my invention, what I claim as new, and desire to secure by Let- 75
ters Patent, is—

1. The automatically-yielding reciprocating pawls C C, pivoted at their inner or rear ends to fixed bearings, in combination with the lateral or forwardly-extending arms or bars of 80
the folding awning-frame A, substantially as and for the purposes specified.

2. The combination of the yielding pawls C C, having anti-friction wheels *c c* on their free ends, with the folding awning-frame A, hav- 85
ing thereon the rails *c' c'*, to receive the said wheels, substantially as and for the purposes specified.

3. The combination of the pivoted pawls C C, springs D D, wheels *c c*, folding awning- 90
frame A, and rails *c' c'*, all arranged for operation together substantially as and for the purposes specified.

EGBERT C. COOK.

Witnesses:

F. F. WARNER,

WM. M. LE MOYNE.