

C. KINGSEED.  
Awning Frame.

No. 202,272.

Patented April 9, 1878.

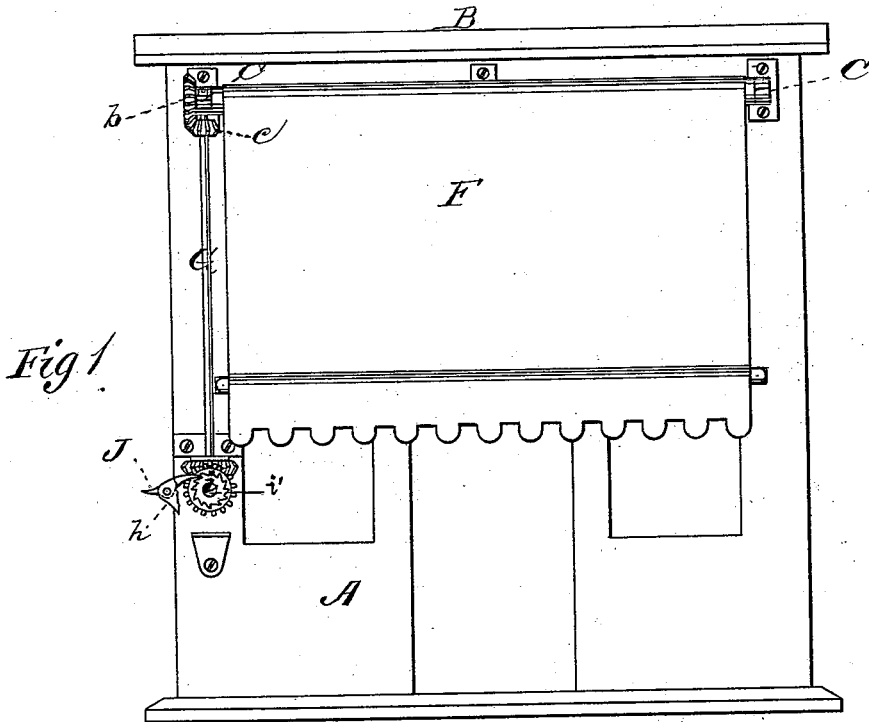


Fig 1

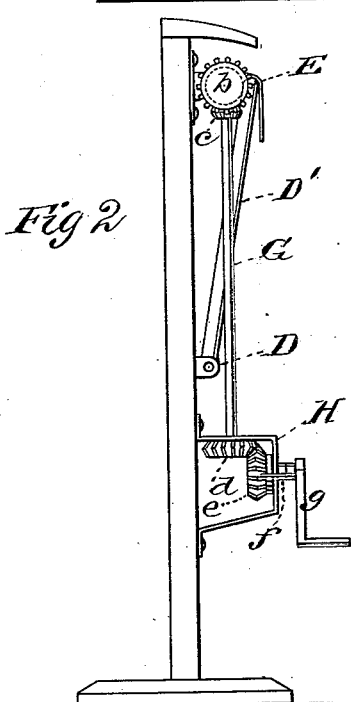


Fig 2

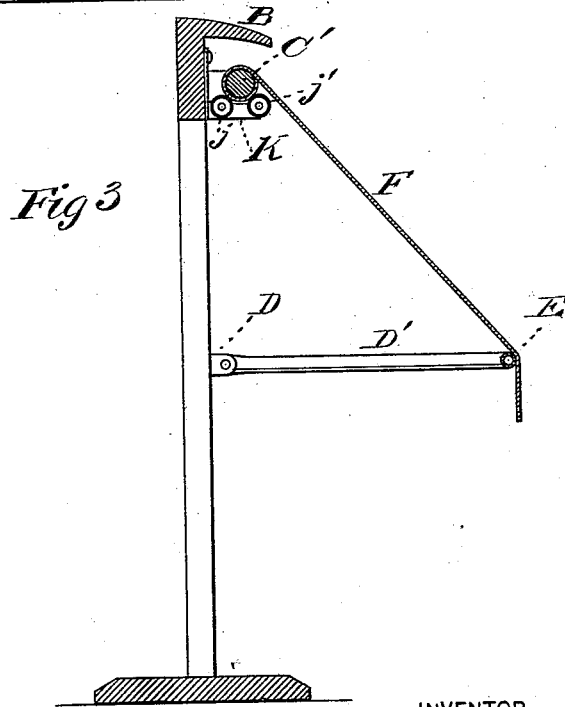


Fig 3

WITNESSES

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CHRISTIAN KINGSEED, OF SIDNEY, OHIO.

## IMPROVEMENT IN AWNING-FRAMES.

Specification forming part of Letters Patent No. 202,272, dated April 9, 1878; application filed June 30, 1877.

*To all whom it may concern:*

Be it known that I, CHRISTIAN KINGSEED, of Sidney, in the county of Shelby and State of Ohio, have invented a new and valuable Improvement in Awning-Frames; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of my invention. Fig. 2 is a side view thereof, and Fig. 3 is a vertical section of the same.

This invention has relation to improvements in awnings for residences, store-fronts, porches, and other places where awnings are usually applied.

The nature of my invention will be clearly set forth in the following description, and indicated in the claim appended thereto.

In the annexed drawings, the letter A designates the front of a building, provided above the lintel of the door with an overhanging shelter, B, designed to protect the awning, when rolled up, from the effects of the weather. C designates strong metallic brackets, projecting out from the wall below the shelter B, and composed of a bearing portion and a trunnion-plate. In these brackets the journals of the roller C' have their bearings. D designates hinge-plates, arranged in the same horizontal plane across the front, and at a suitable distance apart. To each one of these plates is pivoted, so as to vibrate vertically, a metallic rod, D', the outer end of which is secured to a longitudinal rod, E, extending entirely across said front. Rods D' and E will, in practice, be made of gas-pipe, and they will be coupled together, in the manner well-known to fitters, by elbow and T joints. The awning F is secured at one edge to the roller, and at the other to the rod E aforesaid. *b* indicates a bevel-gear wheel secured upon one of the journals of the awning-roller, and meshing with a like gear, *c*, upon the upper end of a vertical shaft, G. This latter has its upper bearing in the under side of the bracket C, and its lower one in a casing, H. It has also a bevel-gear, *d*, upon its lower end,

meshing with a like gear, *e*, having its bearings in said casing H, and actuated through the medium of a key-post, *f*, and a removable crank or other equivalent device, *g*.

When this crank is actuated it will, through the medium of rod G and the gears *b c d e*, cause the awning to be speedily wound around the roller until the vibrating rods are raised to their highest pitch and the whole of the awning is under the shelter. In this raised position the side rods D' are not vertical, but inclined forward in an oblique position, the rod E resting against the main roller, upon which the curtain is wound, and the entire weight of the frame bearing somewhat upon the front edge of the awning. Casing H has an offset, *h*, to which is pivoted a vertically-vibrating pawl, J, that engages a ratchet, *i*, upon the spindle *i'* of the pinion *e*, and thereby prevents the rods D' E from swinging out casually, and allows the awning to be extended only as much as is necessary to exclude the sun, or to its whole extent.

When the awning is fully wound up the rod E abuts against the swell of the roller, and the vibrating supporting-rods are inclined outward from the front of the house. Consequently, when the pawl is disengaged from the ratchet, the rods D' E will gravitate outward and unwind the awning automatically.

K represents a preferably metallic bracket, projecting out from the front of the house, and provided with two slightly-spaced rollers, *j j'*. These are in the same plane with each other, and serve to support the weight of the roller and awning, the said roller bearing down into the space between them.

In practice I prefer to cover the periphery of rollers *j j'* with india-rubber or other suitable material that will diminish their friction upon the material of the awning, and prevent them from unduly wearing out the same.

I am aware that it is not new to make an awning with winding-roller operated by gearing similar to mine, and having a pivoted awning-frame standing vertical when raised, and started, when lowered, by a spring; also, that the small supporting-rollers have been used in awnings before; hence I do not claim, broadly, these devices.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with a bracketed sheltered roller, *C'*, having gear *b*, the vibrating prop-rods *D'*, longitudinal brace-rod *E*, friction-rollers *j j'*, and awning *F*, said friction-rollers adapted to support the roller and awning, the shaft *G*, having gears *c d*, meshing respectively with the gear *b* of the roller-gear

*e* of casing *H*, key-post *f*, ratchet *i*, and pawl *J*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHRISTIAN KINGSEED.

Witnesses:

CHAS. C. WEAVER,  
P. COWAN.