F. M. CHRISTIAN.

FOLDING ARM FOR AWNINGS.

APPLICATION FILED FEB. 3, 1912.

1,050,341. Patented Jan. 14, 1913.

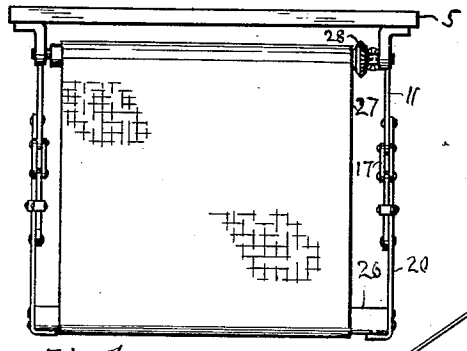

Fig. 1

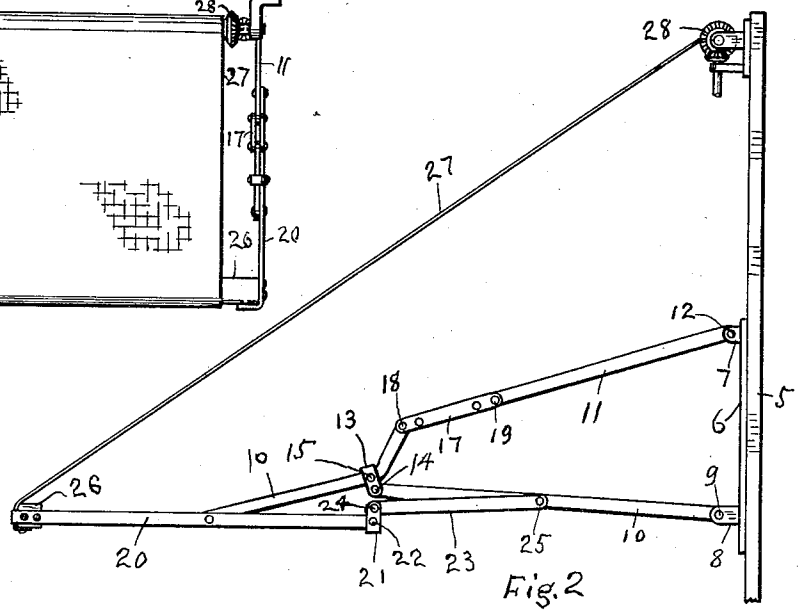

Fig. 2

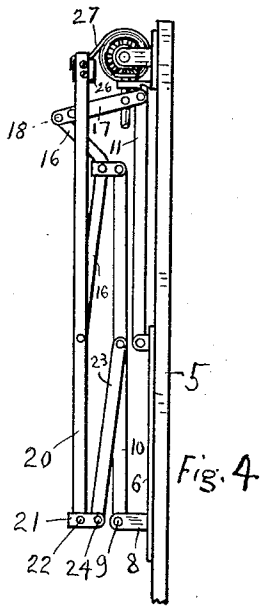

Fig. 4

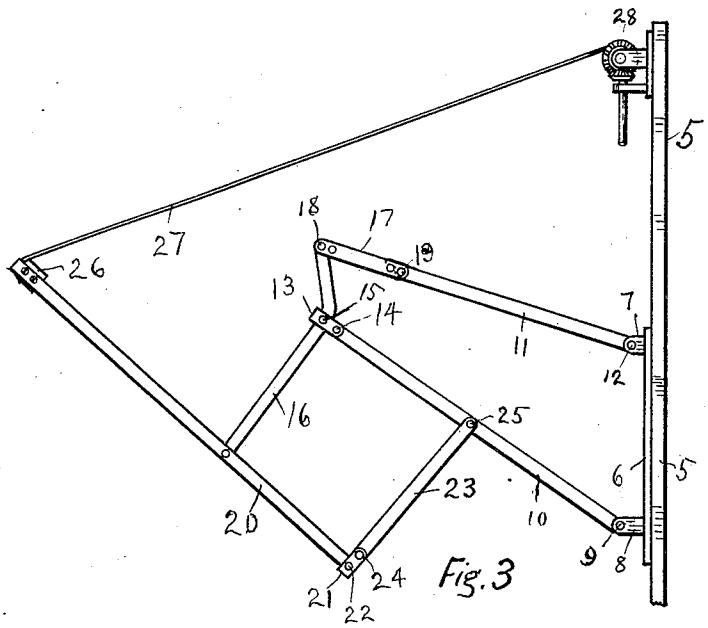

Fig. 3

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FOLDING ARM FOR AWNINGS.

1,050,341. Specification of Letters Patent. Patented Jan. 14, 1913.

Application filed February 3, 1912. Serial No. 675,317.

To all whom it may concern:

Be it known that I, FRANK M. CHRISTIAN, a citizen of the United States, residing at Seattle, in the county of King and the State of Washington, have invented a new and useful Folding Arm for Awnings, of which the following is a specification.

My invention relates to improvements in devices adapted to support awnings in front or over the windows, doors or store fronts of a building which devices are adapted by their form and structure to fold such awning or permit it to be rolled into a snug and compact form whereby it may be stowed close to the wall of a building; but more particularly my invention comprises an improvement on a folding awning arm which is described and illustrated in my co-pending application for United States Letters Patent filed January 24, 1912, the serial number of which is 673,212; and the object of my present invention is to provide a folding-arm support for awnings which shall be adapted to better extend an awning outwardly from a building for a greater distance than can be done by the device of my co-pending application above referred to. I attain such object by a form of structure illustrated in the accompanying drawings, wherein—

Figure 1 is a plan view, on a reduced scale, of my invention showing it applied to an awning when such awning is fully extended from the wall of a building, Fig. 2 is a view of the same, on a larger scale, in side elevation, Fig. 3 is a view of the same in side elevation showing the position of its movable parts as they would appear at one point of their movement in the operation of folding and Fig. 4 is a view in side elevation as it would appear when folded back against the wall of a building.

Like reference numerals indicate like parts throughout the drawings.

Referring now to Fig. 2 of the drawings 5 indicates the wall of a building to which is fastened a supporting bracket 6, from the upper end of which projects a lug 7 and from the lower end of which projects another lug 8. Hinged to such lower lug 8 by a pivot 9 is a bar 10 while another bar 11 is hinged at one of its ends to the upper lug 7 by a pivot 12. The end of the bar 10 distant from the pivot 9 is provided with a lug 13 which is riveted to the end of the bar 10 by a rivet 14. Pivoted by a pivot 15 to the upwardly projecting portion of the lug 13 is a lever 16 whose shorter arm, extending obliquely upward, is connected with the outer end of the bar 11 by a link 17 by means of pivots 18 and 19 respectively. The longer arm of the lever 16 extending outwardly from its pivot 15 is hinged at its outer end to a bar 20 at a point near the center of said bar 20. The innermost end of the bar 20 is provided with an upwardly projecting lug 21 which is secured thereon by a rivet 22. One end of a connecting bar 23 is hinged at one of its ends to the upwardly projecting portion of the lug 21 by a pivot 24 while the innermost end of said bar 23 is hinged by a pivot 25 to the bar 10 at a point near the center of its length. The extreme outermost end of the bar 20 is adapted to be secured to a cross-bar 26 which may extend between a pair of folding-arms, as more clearly shown in Fig. 1; such cross-bar 26 is adapted to have attached to it the outer edge of an awning 27 which may extend from said cross-bar 26 obliquely to a roller mechanism 28 of well known form which roller mechanism 28 may be adapted by obvious means not shown to roll up the awning 27 thereon.

If a structure embodying my invention be disposed as shown in Figs. 1 and 2, then, in its operation, at the commencement of the rolling of the awning 27 on the rolling mechanism 28 the outer end of the bar 20 would commence to swing upwardly and its inner end with its lug 21 would swing downwardly, while the bars 10 and 11 would swing upwardly, and continuing such rolling of the awning 27 such bars would reach a position as shown in Fig. 3, and when the awning 27 is completely rolled up both folding-arms would be folded compactly against the wall 5 with their parts in the position shown in Fig. 4.

It will thus be seen that my present invention comprises the addition of the bar 20 and the connecting bar 23 to the structure illustrated and described in my co-pending application hereinbefore mentioned.

What I claim is:

In a folding-arm of the class described, the combination with a vertical support adapted to be fastened to the wall of a building, of a lever of an angular shape, an arm hinged at one of its ends to the upper end portion of said support while its other end is connected by a link with one end of

said lever, a second arm hinged at one of its ends to the lower end portion of said support while its other end is hinged to said lever at the point of junction of the two arms of said lever, an outer extension bar hinged near its central portion to the outer end of said lever, the innermost end of which bar is hinged to a connecting bar which extends therefrom to the central portion of said second arm and is there hinged while the outermost end of which bar is adapted to engage with means for securing the edge of an awning.

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