

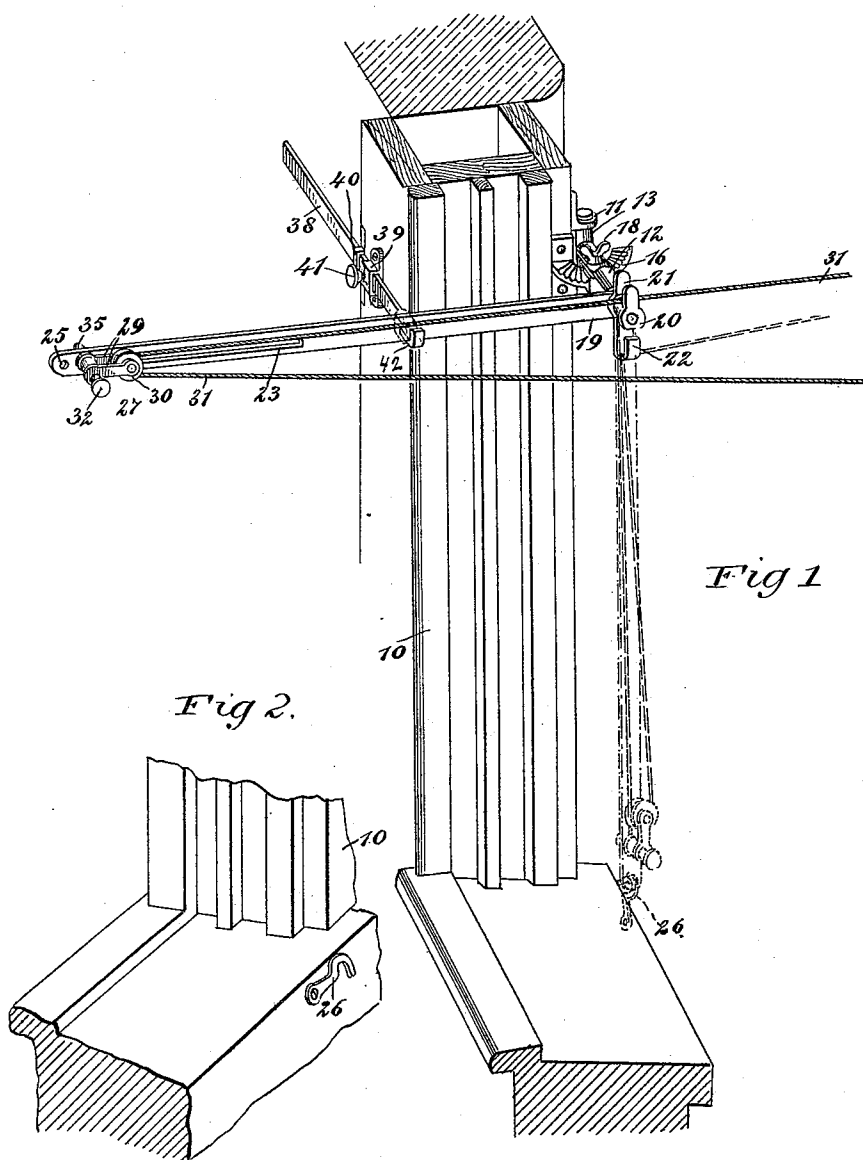
(No Model.)

3 Sheets—Sheet 1.

R. McNAB.
CLOTHES LINE SUPPORT.

No. 481,806.

Patented Aug. 30, 1892.



WITNESSES:

Paul J. Foster
C. Sedgwick

INVENTOR

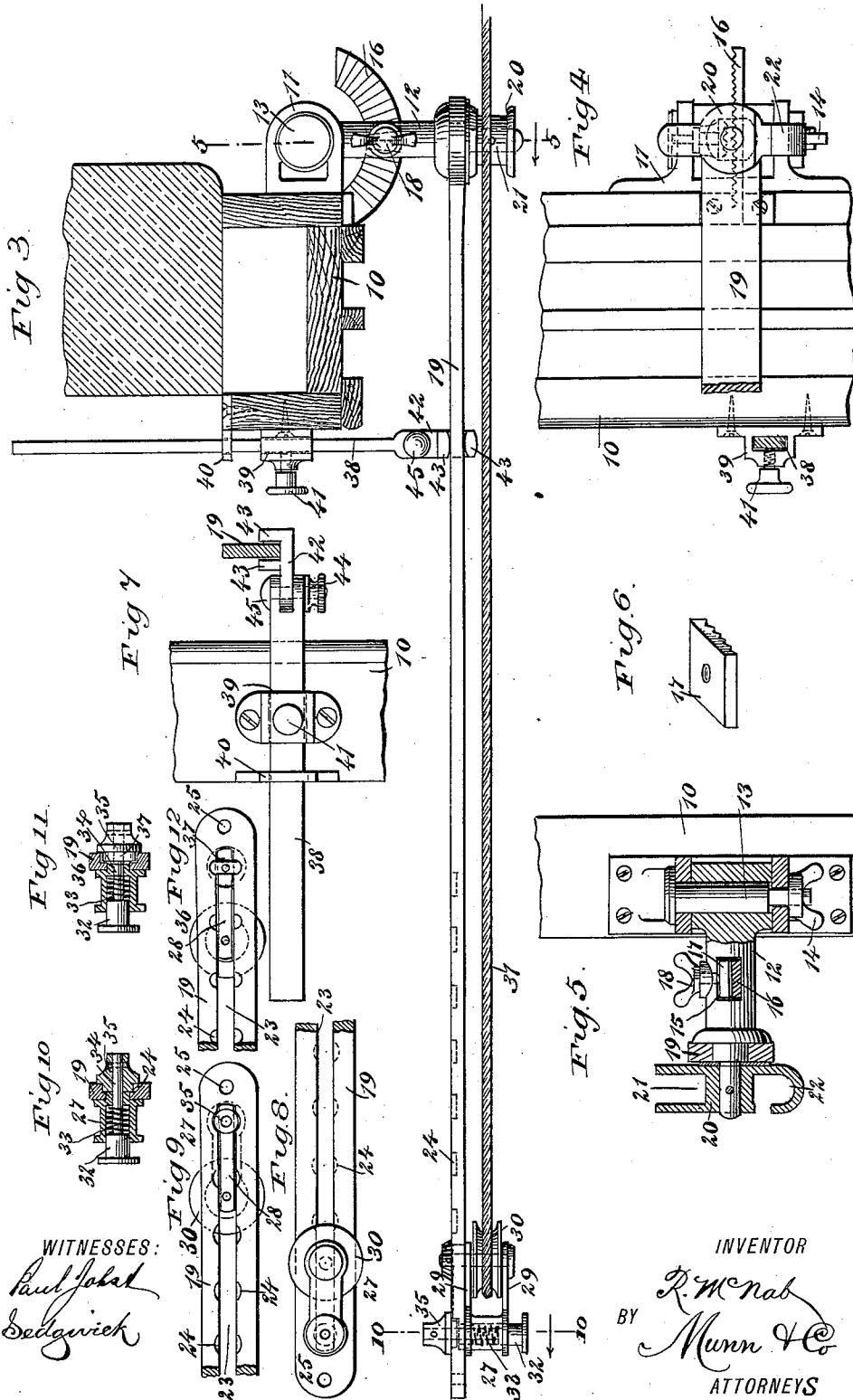
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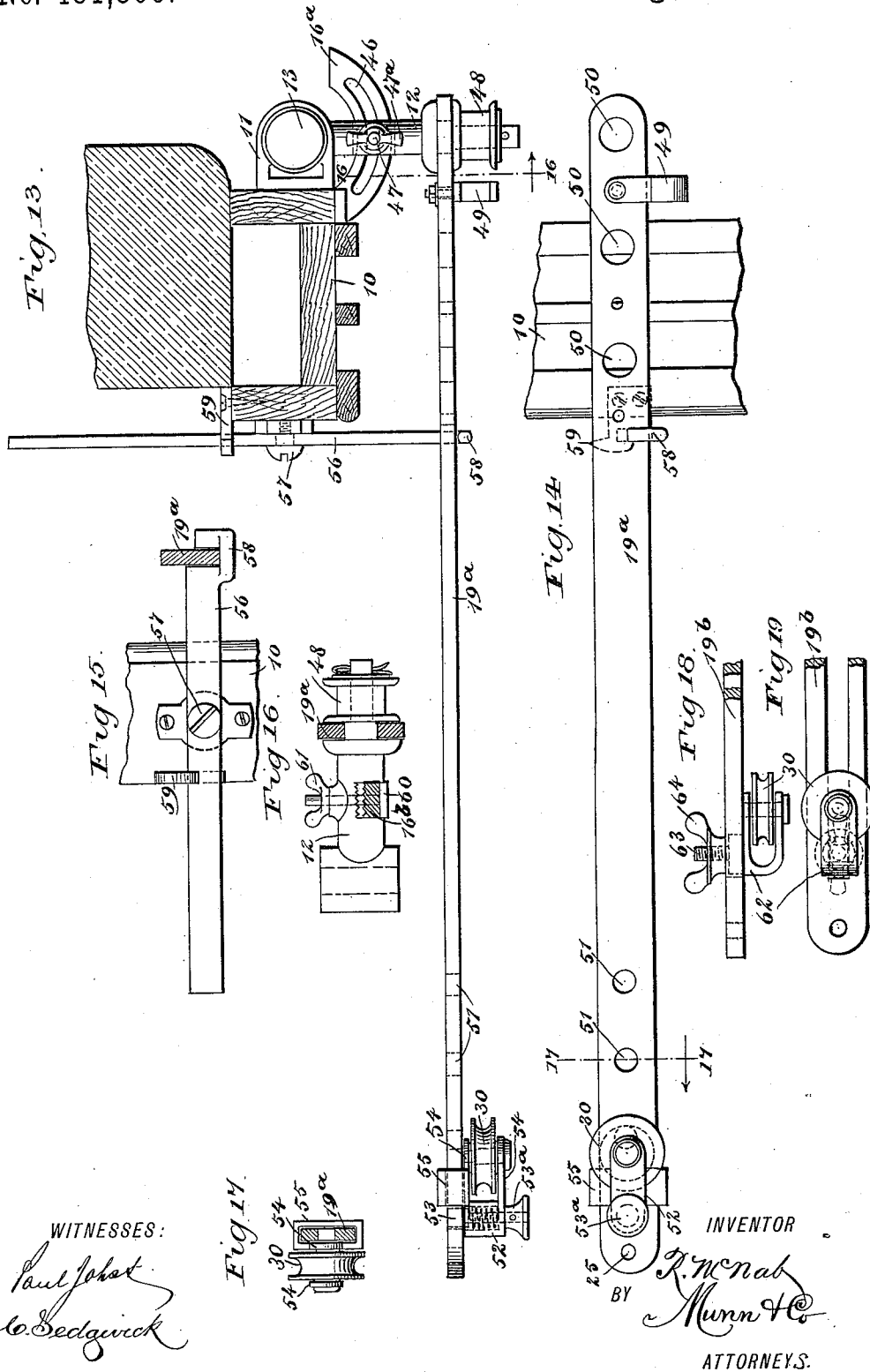
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Fig. 17.
54 30 54 55 19a

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UNITED STATES PATENT OFFICE.

ROBERT McNAB, OF PATERSON, NEW JERSEY.

CLOTHES-LINE SUPPORT.

SPECIFICATION forming part of Letters Patent No. 481,806, dated August 30, 1892.

Application filed June 27, 1891. Serial No. 397,689. (No model.)

To all whom it may concern:

Be it known that I, ROBERT McNAB, of Paterson, in the county of Passaic and State of New Jersey, have invented a new and Improved Clothes-Line Support, of which the following is a full, clear, and exact description.

My invention relates to improvements in clothes-line supports, and especially in an adjustable safety-arm and its attachments for pulley clothes-lines, which are usually arranged with one end supported adjacent to a window of a building and with the other end upon an outside pulley.

The object of my invention is to produce an adjustable safety-arm for attachment to the frame of the window, which arm is arranged to adjustably support the line-carrying pulley, which is adapted to be brought into any necessary position to enable it to align with the outside pulley, which is provided with means for fastening it in any position, and which, when not in use, may drop into a vertical position outside of the window and be confined in said position.

To this end my invention consists in certain features of construction and combination of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the device embodying my invention, showing the same applied to a window-frame. Fig. 2 is a perspective view showing the latch for fastening the main arm in a vertical position. Fig. 3 is a plan view of the device, showing it in a horizontal position and secured to a window-frame. Fig. 4 is a broken side elevation of the device. Fig. 5 is a vertical cross-section through the supporting-arm and the main arm on the line 5 5 in Fig. 3. Fig. 6 is a detail perspective view of the binding-nut which is secured in the supporting-arm. Fig. 7 is a side elevation of the inside cross-arm which supports the main arm in a horizontal position. Fig. 8 is a broken side elevation of the main arm, showing the pulley-carrier thereon. Fig. 9 is a similar view taken from the opposite side. Fig. 10 is a cross-section through the pulley-carrier on

the line 10 10 in Fig. 3. Fig. 11 is a detail sectional view of a modified form of pulley-carrier. Fig. 12 shows the application of the pulley-carrier shown in Fig. 11 to the main arm. Fig. 13 is a plan view of a modified form of the invention, showing it secured to a window-frame. Fig. 14 is a side elevation of the same with the supporting-arm removed. Fig. 15 is a side elevation of a modified form of the inside cross-arm shown in Fig. 13. Fig. 16 is a cross-section similar to the section on the line 16 16 in Fig. 13, but with a modified form of curved fastening-blade substituted for the blade shown in Fig. 13. Fig. 17 is a cross-section on the line 17 17 in Fig. 14, showing an end view of another modified form of pulley-carrier. Fig. 18 is a broken plan view of a second modification of the main arm and of another modified form of pulley-carrier, and Fig. 19 is a side elevation of the device shown in Fig. 18.

A bracket 11 is secured to the outside of the window-frame 10 at a convenient height above the window-sill, and pivoted in this bracket, so as to swing horizontally, is a supporting-arm 12, which is secured to the bracket by means of a pin 13, which is preferably provided at its lower end with a nut 14 to hold it in place. The supporting-arm 12 has a recess 15 centrally therein, and through this recess extends a curved blade 16, which is roughened on its upper surface and which is secured at one end to a portion of the main bracket 11. The recess 15 is deep enough to permit the insertion of a clamping-nut 17 above the blade 16 and of a suitable packing between the nut and the blade. The under surface of the nut is roughened, as shown in Fig. 6, and it is operated by means of a thumb-screw 18, which extends downward into the arm 12 and connects with the nut. It will thus be seen that the arm 12 may be swung outward or inward from the window and may be held in a fixed position by tightening the thumb-screw.

The main arm 19, which carries the clothes-line pulley, is journaled on the outer end of the supporting-arm 12, so as to swing vertically thereon, and outside of this main arm is a guide 20, which serves as a washer, the said guide having a recess 21 on its upper side, through which one member of the clothes-

line may pass, and having a hook 22 on its under side, which is adapted to support the other member of the clothes-line.

The main arm 19 is slotted longitudinally near its free end, as shown at 23, and on one side of the arm and on opposite sides of the slot are notches 24, which facilitate the adjustment of the pulley which carries the clothes-line, as described below. The free end of the main arm 19 is perforated, as shown at 25, and on the outer side of the window-sill is a latch 26, which is adapted to engage the perforated end of the arm, as shown in Fig. 1, when the arm is dropped into a vertical position, and the latch will thus prevent its displacement.

In the slotted end of the arm 19 is a pulley carrier 27, which is provided with an elongated body portion 28, which slides in the slot, as shown best in Fig. 9, and which has on one side of the main arm parallel arms 29, in which the pulley 30 is pivoted, which pulley carries the clothes-line 31. A spring-pressed button 32 is arranged in one end of the carrier and is normally pressed outward by a spring 33, and the inner end of this button terminates in a spindle 34, which extends through the slot of the main arm and is provided on the back side with another button 35, the inner portion of which is adapted to fit in the notches 24 of the arm 19. It will thus be seen that the pulley-carrier 27 may be easily adjusted so as to regulate the tension of the clothes-line 31, as by pushing inward on the button 32 the button 35 will be pushed out of the notches 24, and the carrier may then be pushed lengthwise on the main arm in either direction, and it may be held in position by allowing the button 35 to spring back into any desired notch.

As shown in Figs. 11 and 12, the button 32, spindle 34, and button 35 are adapted to revolve, and the inner side of the button 35 is provided with an elliptical lug 37, which, when placed transversely to the slot 23 in the main arm, will enter the notches 24 on opposite sides of the slot, but which, when turned in the direction to align with the slot, will slide freely therein, and when this form of carrier 36 is used the button 35 may be turned so that the lug 37 will slide freely in the slot 23, and the carrier may then be moved back and forth.

When the clothes are to be run out on the line 31, the arm 19 is raised into a horizontal position, as shown in Fig. 1, and to support it in this position a cross-arm 38 is used, which arm is supported on the inner side of the window-frame 10 by means of keepers 39 and 40, in which it slides. The keeper 39 is provided with a clamping-screw 41, and by tightening the screw upon the arm 38 the arm may be held in a desired position. The outer end of the arm 38 has a swinging plate 42, on the upper side of which are parallel flanges 43, which are adapted to embrace the main arm 19, and the plate 42 is held to swing on a pivot-

pin 45, which has a nut 44 at its lower end. It will thus be seen that when the arm 38 is properly adjusted to bring the plate 42 beneath the main arm 19 it may be firmly fixed in position by the clamping-screw and need not be changed, as when the main arm 19 is to be dropped it may be raised slightly and the plate 42 turned from beneath it, and when it is raised the operation may be reversed.

In Fig. 13 I have shown the arm 12 supported in the manner already described, but instead of the roughened blade 16 a slotted blade 16^a is used, which blade extends through the recess in the arm 12 and is held in place by a clamping-bolt 47. The clamping-bolt 47 extends downward through the slotted blade 16^a and has a head at its lower end, which is adapted to impinge upon the blade when the bolt is tightened in the same manner that the head 60 impinges on the blade 16^b, as shown in Fig. 16. The main arm 19^a (shown in this figure and in Fig. 14) is also different from that shown in Fig. 1, as is also the inside cross-arm. The main arm 19^a, as shown in Figs. 13 and 14, is provided with a plain cylindrical spool or guide 48, which is used instead of the guide 20, above described, and an independent hook 49 is secured to the arm adjacent to the guide, which hook takes the place of the hook 22. (Shown in Fig. 5.) The arm 19^a is also provided near its pivoted end with a series of holes 50, either of which may be placed upon the supporting-arm 12, and the arm may be thus adjusted to the height of the window—that is to say, if the outer hole 50 in the arm were placed upon the supporting arm 12 and the main arm should extend too low down, the arm 19^a might be removed and the arm 12 made to enter one of the other holes. The main arm 19^a is also provided with a series of holes 51 near its free end and a carrier 52 is mounted to slide on the arm. This carrier is provided with a spring-pressed bolt 53, which is adapted to enter the holes 51 and which has a button 53^a at one end, by means of which it may be withdrawn so as to permit the carrier to slide.

The carrier has parallel arms 54, which support the clothes-line pulley 30, and is provided with a keeper 55, which embraces and slides on the main arm. The inside cross-arm, which supports the main arm 19^a, is shown clearly in Figs. 13 and 15. The arm 56 is centrally pivoted on the inner side of the window-frame, as shown at 57, and is provided at one end with a hook 58, which supports the arm 19^a, and to prevent the rear end of the cross-arm from tipping up too far a hook 59 is secured to the frame in the path of the cross-arm 56, and this serves as a stop.

In Fig. 16 I have shown a modified means of holding the supporting-arm 12 in position, and in this case the roughened blade 16^b is held in a recess on the under side of the arm, instead of in the center, and is clamped in place by a bolt 60 and a thumb-screw 61. The upper surface of the blade 16^b is rough-

ened, and the abutting surface of the arm 12 is also roughened, so that the blade and arm may be easily held so as not to slip, but the shape of the blade 16^b is in general like the blades 16 and 16^a, so that the arm 12 may swing upon it. The arm 12 (shown in Fig. 16) is like the arm shown in Figs. 5 and 13, except that it has a recess on the under side to receive the blade 16^b.

10 In Figs. 18 and 19 I have shown still another modified main arm and pulley-carrier. The arm 19^b is slotted longitudinally and the carrier 62 is held to slide in the slot. This carrier supports the clothes-line pulley 30 on one side, and it is provided with a bolt 63, which projects through the main arm and is provided with a thumb-nut 64. This carrier 62 is held in place by tightening the thumb-nut so that the carrier is securely clamped to the arm, and when the carrier is to be moved to tighten or slacken the clothes line the thumb-nut is loosened.

The operation of the device is as follows: When the clothes are to be run out upon the line 31, the main arm 19 is raised to a horizontal position and swung laterally to bring it into alignment with the outside pulley. The supporting-arm 12 is then secured in position in the manner described. The inside cross-arm is adjusted so as to support the main arm, and the clothes are run out upon the line in the ordinary way. After the clothes are run out, the lower member of the line 31 is placed in the hook 22 or 49, as the case may be, and the main arm is dropped in a vertical position and fastened by the latch 26.

I do not claim herein the combination, with the swinging main arm adapted to support a clothes-line, of a cross-arm secured to the window-frame adjacent to the main arm, a swinging plate mounted in the end of the cross-arm and adapted to extend beneath the swinging arm, and means for tightening the

plate in place, as this construction is claimed by me in another application Serial, No. 380,479, filed February 6, 1891.

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

1. A clothes-line support comprising a horizontally-swinging supporting-arm pivoted at the outer side of a window-frame, a roughened curved blade extending through the supporting-arm and adapted to be clamped thereto, a swinging main arm journaled on the outer end of the supporting-arm, a guide and hook supported on the outer end of the supporting-arm, a pulley-carrier adjustably mounted on the swinging arm, and an inside cross-arm secured to the window-frame and adapted to support the swinging arm, substantially as described.

2. In a clothes-line support, the combination, with the swinging main arm pivoted at the outer side of a window-frame, of a laterally-adjustable cross-arm supported on the inner side of the window-frame and a swinging plate secured to the cross-arm and adapted to support the main arm, substantially as described.

3. The combination, with the swinging main arm having a longitudinal slot therein with notches on opposite sides of the slot, of a pulley-carrier held to slide on the main arm and provided with a spring-pressed button to engage the notches of the main arm, substantially as described.

4. The combination, with the horizontally-swinging supporting-arm, of a main arm having a series of holes therein adapted to fit the outer end of the supporting-arm and a pulley-carrier mounted on the main arm, substantially as described.

ROBERT McNAB.

Witnesses:

WARREN B. HUTCHINSON,
C. SEDGWICK.