

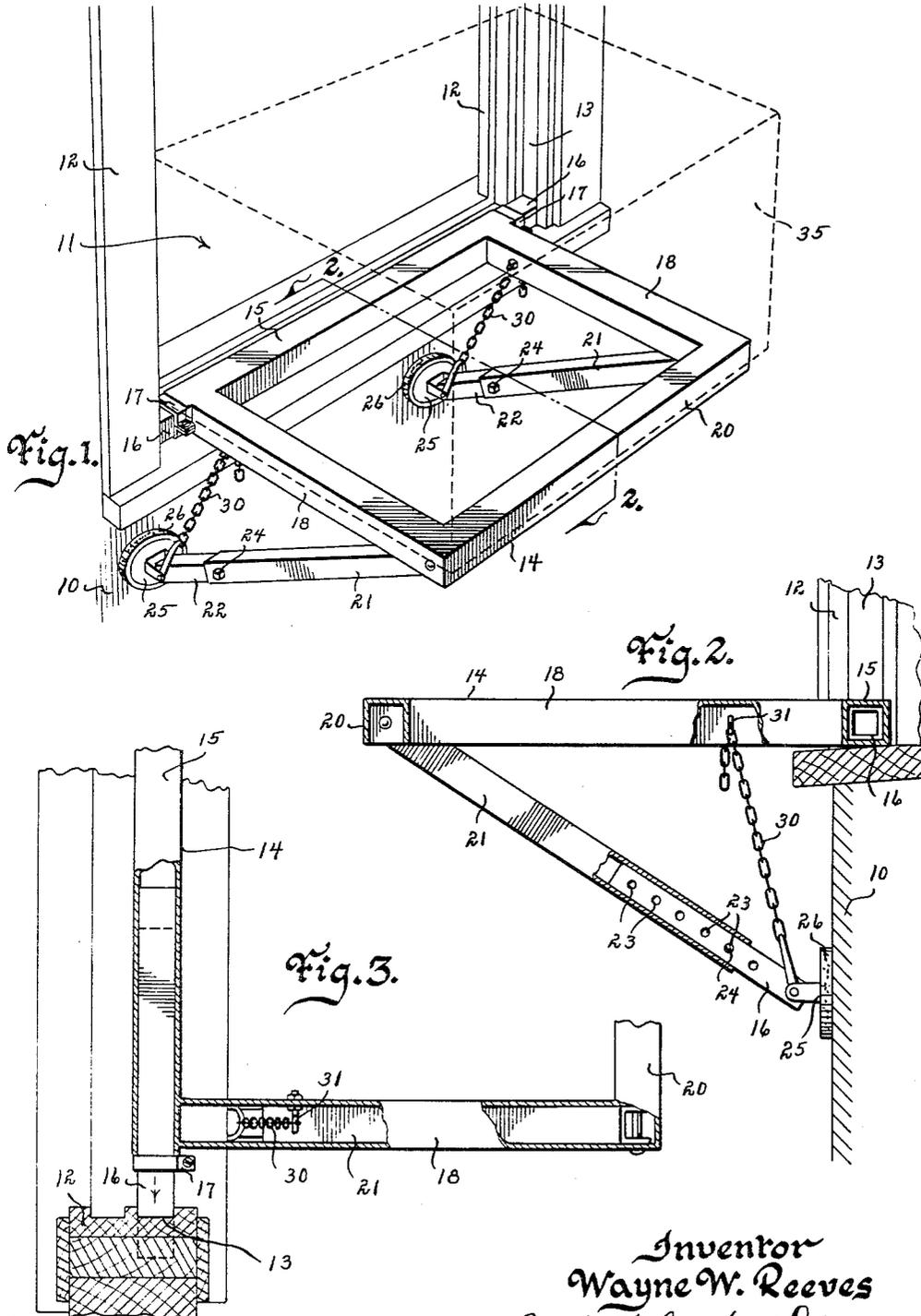
May 3, 1960

W. W. REEVES

2,935,284

WINDOW BRACKET SUPPORT FOR AIR CONDITIONERS AND LIKE

Filed Jan. 23, 1958



Witness  
Edward P. Sealey

Inventor  
Wayne W. Reeves  
by M. Talbert Dick  
Attorney

1

2

2,935,284

**WINDOW BRACKET SUPPORT FOR AIR CONDITIONERS AND LIKE**

Wayne W. Reeves, Des Moines, Iowa

Application January 23, 1958, Serial No. 710,709

3 Claims. (Cl. 248—208)

This invention relates to a bracket base used in window openings for supporting air conditioners and like.

In recent years the use of portable air conditioners for home and office usage has been greatly expanded. The usual method of installing such equipment is to fasten it into the window opening and lower the window to close the window opening space above it. An air conditioner is rather heavy and extends a substantial horizontal distance outside the building and beyond the window frame. They are therefore most difficult to secure within the window frame opening and often when the window is raised they fall outwardly. Also, similar to that of storm windows, they must be frequently removed and installed according to season. However, while such air conditioners have been perfected, no sensible device has heretofore been conceived to successfully detachably secure and support it in a window opening.

Therefore, one of the principal objects of my invention is to provide a rigid support means for detachably holding an air conditioner or like in the window opening of a building.

A further object of this invention is to provide a base bracket for window openings that may be easily and quickly installed in or removed from the opening of a window.

A still further object of my invention is to provide a base bracket support for window openings that does not damage or mar the window frame or the building.

A still further object of my invention is to provide a window bracket support that is adjustable to fit window openings of different sizes.

Still further objects of my invention are to provide an air conditioner support base that is economical in manufacture, durable in use and refined in appearance.

These and other objects will be apparent to those skilled in the art.

My invention consists in the construction, arrangements, and combination, of the various parts of the device, whereby the objects contemplated are attained as hereinafter more fully set forth, specifically pointed out in my claims, and illustrated in the accompanying drawings, in which:

Fig. 1 is a perspective view of my device installed in a window opening.

Fig. 2 is a cross sectional view of my support taken on line 2—2 of Fig. 1, and

Fig. 3 is a top sectional view of one end portion of the device and more fully illustrates its construction.

While I disclose my device as particularly adapted for supporting an air conditioner, obviously it may be used wherever a window opening support base is needed.

In the drawings I have used the numeral 10 to designate a building having a window opening 11 and a window frame 12 in the opening. Such window frames have a vertical groove 13 in each side for slidably retaining the usual lowerable and raiseable window (not shown). The usual procedure in the installing of an air conditioner is to raise the window, place the air conditioner into the

window opening and then lower the window downwardly onto the air conditioner.

In the drawings I have used the numeral 14 to designate a horizontal rectangular frame. The inner length 15 of the frame is tubular, open at both ends and rectangular in cross section, as shown in Fig. 2. Slidably extending into each open end of the length 15 of the frame is a bar 16, preferably hollow to reduce weight. When the device is installed, the length 15 of the frame is placed in line between the two window frame grooves 13, and the two bars 16 slid away from each other to extend into and engage the two window frame grooves 13, respectively. A screw tightened stop clamp 17 embraces each of the bars 16. After the bars have been slid into the window frame grooves 13, these clamps are moved to engage the ends respectively of the frame length 15 and then tightened. This prevents the bars 16 from telescoping into the frame lengths 15 and becoming accidentally detached from the window frame grooves 13. The frame 14 will rest on the window frame ledge and thus the rear end of the frame will be supported. The bars 16 will prevent horizontal movement of the frame into or out of the window opening. The side lengths 18 of the frame 14 and the outer length 20 of the frame 14 are preferably of inverted channel construction, as shown in Fig. 2. In the outer end portion of each of the lengths 18, I hinge a tubular arm 21, rectangular in cross section. Slidably extending into the free end portion of each arm 21 is a bar 22 having a plurality of spaced bolt holes 23 in its length. The numeral 24 designates a bolt extending through each arm 21 and selectively through one of the holes 23 of the adjacent bar 22. Therefore, to adjust the length of each arm unit, the proper hole 23 of its bar 22 is selected. Vertically hinged to the outer end of each of the bars 22 is a plate 25 having a resilient rubber or like pad 26. When the device is installed the arm units extend rearwardly and downwardly with the hinged padded plates engaging the outside of the building 10, below the window opening as shown in Fig. 1. The lengths of the arm units and their vertical positions of contact on the face of the building will determine the horizontal attitude of the base frame 14. To adjust the vertical positions of the padded plates I secure a chain, cable or like 30 to the hinged point of each padded plate and adjustably hooked to a hook 31 on the horizontal frame above it. Therefore, in installing my device the arm units are adjusted as to lengths and/or the lengths of the chain 30 between the padded plates and horizontal frame are adjusted to bring the frame 14 into proper horizontal attitude. Once adjusted, they will not require readjustment when the device is removed and again replaced. The hooks 31 are secured to the rear end areas of the side lengths of the frame 14. With the base frame 14 supported at its outer end by the arm units, it provides an excellent platform to successfully support an air conditioner 35, shown by broken lines in Fig. 1.

To detach the installation, the air conditioner is lifted from the frame support, and one clamp stop 17 loosened, and its bar 16 telescoped into the base frame and from the window frame groove. The entire unit can then be lifted from the building and collapsed for storage. The replacement is as easily accomplished.

Some changes may be made in the construction and arrangement of my window bracket support for air conditioners and like without departing from the real spirit and purpose of my invention, and it is my intention to cover by my claims, any modified forms of structure or use of mechanical equivalents which may be reasonably included within their scope.

I claim:

1. In a window bracket support, a rectangular frame having two side sections, an inner end section and an

3

outer end section said inner end section being tubular and rectangular in cross section and having its ends open, a bar rectangular in cross section slidably extending into each of the open ends of said inner end section, and adapted to slidably engage the grooves respectively of a window frame; each of said two side sections being of a rectangular inverted U-construction with its bottom open, two arms each having an outside width substantially that of the inside width of said side sections and having one end extending into the side section above it at a point a substantial distance from said inner side section, a means for hinging the end of each of said two arms that extend into said side sections to the side section into which it extends, an adjustable telescoping arm extension in each of said arms, and an elongated member secured to each of said arm extensions and to the side section of the frame adjacent to it.

2. In a window bracket support, a rectangular frame having two side sections, an inner end section and an outer end section said inner end section being tubular and rectangular in cross section and having its ends open, bars rectangular in cross section slidably extending into the open ends of said inner end section, and adapted to slidably engage the grooves respectively of a window frame; an adjustable clamp on each of said bars for adjustably limiting their sliding movement into said inner end sections each of said two side sections being of rectangular inverted U-construction with its bottom open, two arms each having an outside width substantially that of the inside width of said side sections and having one end extending into the side section above it at a point a substantial distance from said inner side section, a

4

means for hinging the end of each of said two arms that extend into said side sections to the side section into which it extends, an adjustable telescoping arm extension in each of said arms, and an elongated member secured to each of said arm extensions and to the side section of the frame adjacent to it.

3. In a window bracket support, a rectangular frame having two side sections, an inner end section and an outer end section said inner end section being tubular and rectangular in cross section and having its ends open, bars rectangular in cross section slidably extending into the open ends of said inner end section, and adapted to slidably engage the grooves respectively of a window frame; each of said two side sections being of rectangular inverted U-construction with its bottom open, two arms each having an outside width substantially that of the inside width of said side sections and having one end extending into the side section above it at a point a substantial distance from said inner side section, a means for hinging the end of each of said two arms that extend into said side sections to the side section into which it extends, an adjustable telescoping arm extension in each of said arms, and an elongated member secured to each of said arm extensions and adjustably to the side section of the frame adjacent to it.

## References Cited in the file of this patent

## UNITED STATES PATENTS

1,229,073	Harris	June 5, 1917
1,512,792	Nelson	Oct. 21, 1924
2,568,968	Perrin	Sept. 25, 1951