April 7, 1931. W. C. ASTRUP 1,799,668

AWNING FIXTURE

Filed Feb. 11, 1930 2 Sheets-Sheet 1

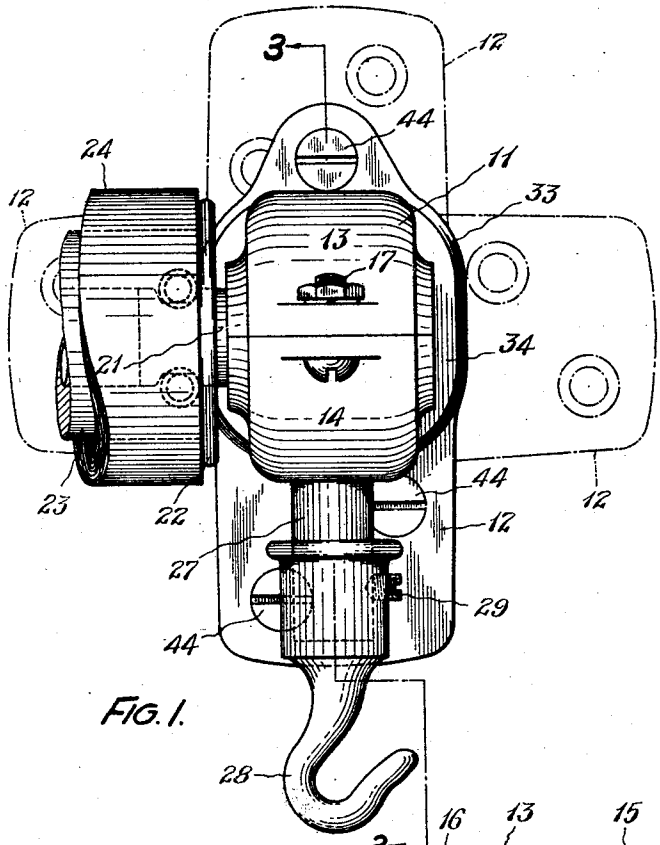



FIG. 1.

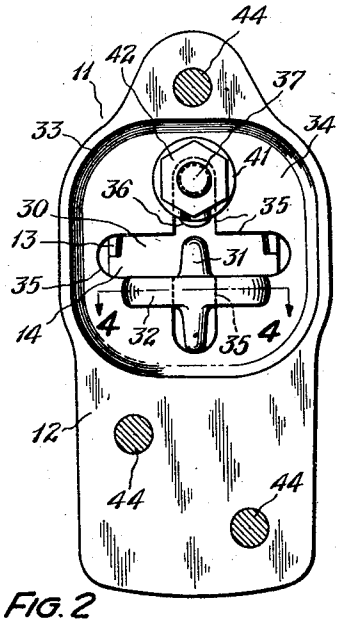



FIG. 2

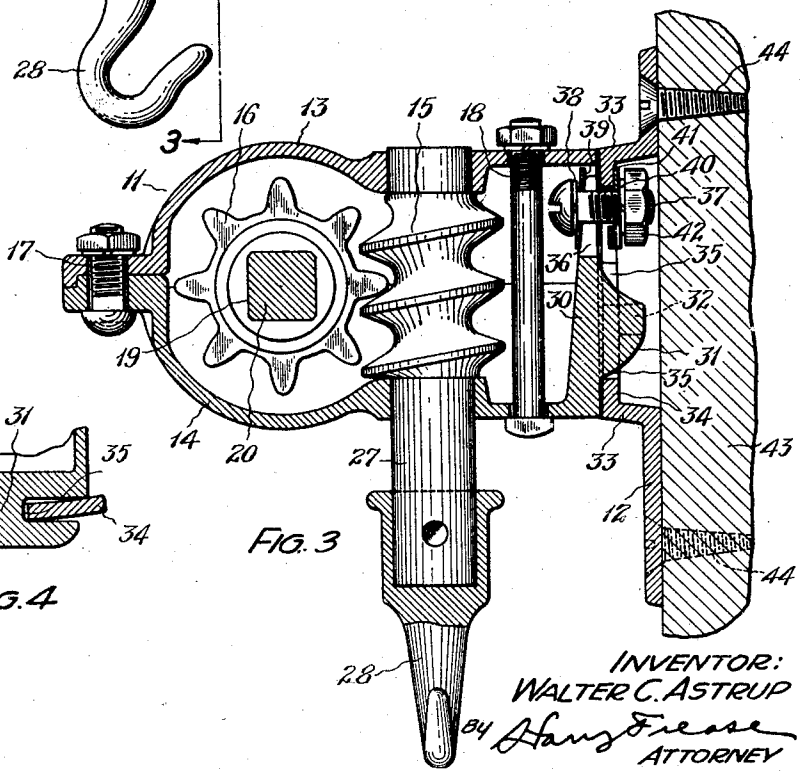



FIG. 3

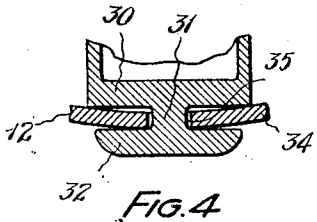



FIG. 4

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April 7, 1931. W. C. ASTRUP 1,799,668

AWNING FIXTURE

Filed Feb. 11, 1930 2 Sheets-Sheet 2

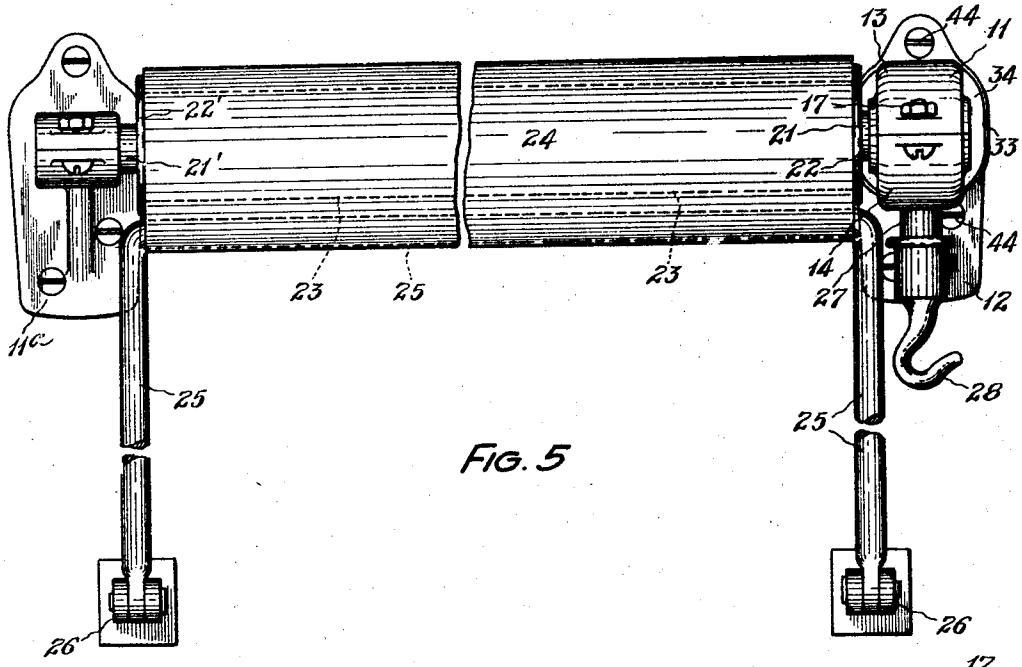



FIG. 5

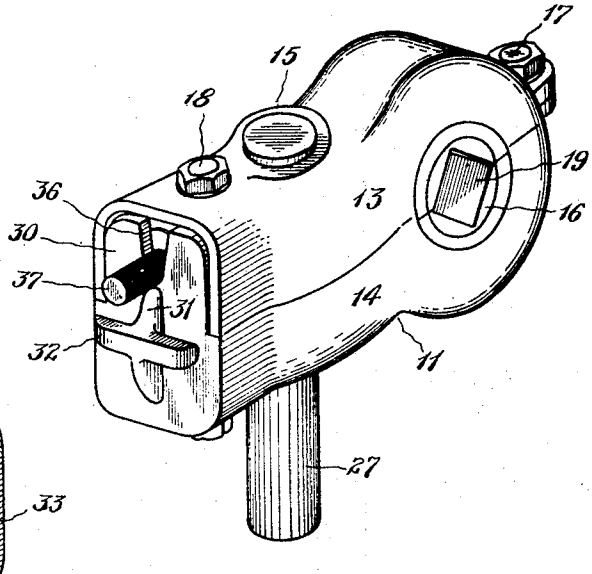



FIG. 6

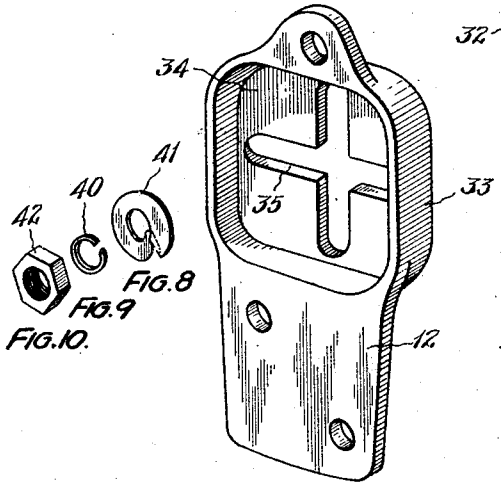



FIG. 8
FIG. 9
FIG. 10.

FIG. 7

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# UNITED STATES PATENT OFFICE

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## AWNING FIXTURE

Application filed February 11, 1930. Serial No. 427,533.

The invention relates to awnings, and more particularly to means for supporting the rollers of awnings utilized for protecting or shading store fronts.

The present types of awnings usually have their rollers journaled at one end in a simple bearing forming part of a fixture having a bracket or base plate which is attached either to an upright member or to a top cross bar member of a store front window frame; and at the other end in a combination bearing and gear box fixture having a bracket or base plate also attached either to an upright member or to a top cross bar member of a store front window frame.

However, difficulties are encountered in erecting an awning for a store front next adjacent to an existing awning protected store front, in order to accomplish maximum coverage of the new store front; because the existing adjacent bearing fixture or gear box fixture, as the case may be, of the present types interfere with the proper placement of the fixtures for the awning roller being erected when such fixtures are also of the present types.

Moreover, great difficulties are encountered in erecting new awnings when it happens that an adjacent existing awning has its adjacent fixture mounted on a dividing window frame upright member, which upright member has a width equal to or slightly greater than the width of the gear box fixture, because the existing fixture occupies the only space that could be utilized by the new fixture. Under such circumstances a special type of fixture is required which must be attached to a window frame top cross bar member as distinguished from the upright member.

Accordingly, one of the objects of the present invention is to provide an awning roller fixture the base plate of which may be attached either to an upright member or a top cross bar member of a store front window frame so as to accomplish maximum coverage of the store front.

Another object of the invention is to provide an adjustable fixture which may be attached in either of two positions to a window frame cross bar member, or in either of two positions to a window frame upright member.

And finally, an object of the present invention is to provide a safe, economical, and practical awning roller fixture.

These and other objects are attained by the present invention, as is hereinafter claimed, and which may be stated in general terms as including an awning fixture bearing member, a base plate therefor, and means for connecting and supporting the bearing member on the base plate in any one of a plurality of fixed predetermined positions.

A preferred embodiment of the invention is shown in the accompanying drawings in which:

Figure 1 is a front elevation of the improved awning roller fixture, showing the base plate thereof in full lines in the usual position and in dot-dash lines in three other fixed predetermined adjusted positions;

Fig. 2 is a rear elevation of the improved support showing the bearing member and base plate connecting and supporting means, and showing the base plate attaching screws in section;

Fig. 3 is a vertical section through the improved fixture, taken as on the line 3—3, Fig. 2;

Fig. 4 is a fragmentary section of a portion of the supporting means taken as on the line 4—4, Fig. 2;

Fig. 5 is a front elevation of an awning to which an embodiment of the invention has been applied, certain parts being broken away; and

Figs. 6, 7, 8, 9 and 10 are perspective views of the improved fixture showing certain of the parts thereof in expanded position.

Similar numerals of reference indicate similar parts throughout the several figures of the drawings.

The invention is shown as applied to a combination bearing and gear box type of fixture generally indicated at 11, which is connected to and supported on the fixture base plate 12; and the gear box may preferably include upper and lower bearing members 13 and 14, in which are journaled the worm

15 having a preferably vertical axis, and the worm wheel 16 meshing with the worm 15 and having a preferably horizontal axis. The upper and lower bearing members 13 and 14 are preferably connected together by nuts, bolts and lock washers 17 and 18.

The worm wheel 16 may have formed therein a squared axial opening 19 for receiving the squared end 20 of the awning roller attaching member 21. A gudgeon 22 is preferably attached to the member 21 and the awning roller 23 is preferably supported at one end on the gudgeon 22.

As shown in Fig. 5, the awning roller 23 is supported at its other end on a gudgeon 22′ which is secured to an attaching member 21′ journaled in a simple bearing fixture 11a. An awning covering 24 is rolled on the roller 23 and has a U-shaped frame 25 fastened at one edge thereof, which frame is preferably hinged in bearings 26.

One end 27 of the integral worm shaft preferably projects through the lower bearing member 14 and has attached thereto a hook 28 held in place by the set screw 29. A hook similar to the hook 28 may be provided at one end of a portable winding shaft (not shown), which may be engaged with the hook 28 for rotating the worm 15, the worm wheel 16 and connected roller 23, for raising or lowering the awning covering 24.

The parts thus far described are standard awning parts and form no part of my invention, excepting as hereinafter set forth, and have been illustrated and described in order that the invention may be thoroughly understood. The invention pertains to the adjustable base plate 12 for the awning fixture and to the manner in which the awning fixture 11 is adjustably connected and supported on the base plate 12.

The lower bearing member 14 is preferably provided with a rear wall 30 which has a vertically extending rearwardly projecting rib 31 from the outer end of which integrally extends a horizontal cross rib 32 spaced from the rear face of the rear wall 30.

The base plate 12 is preferably forwardly paneled at 33 and the paneled face or portion 34 projects in parallel offset relation to the base plate and is provided with a cross-shaped opening 35 best shown in Figs. 2 and 7. The angled ribs 31 and 32 are inserted through the cross-shaped opening 35 and are then moved downwardly to the position shown in Figs. 2, 3 and 4 for supporting the fixture 11 on the base plate 12.

In this position the front face of the rib 32 engages the rear face of the paneled portion 34 while the rear face of the rear wall 30 engages the front face of the paneled portion 34, and the vertical rib 31 extends through the vertical portion of the cross-shaped slot 35.

The rear wall 30 is provided with a notch 36 preferably in vertical alignment with the vertical rib 31 and a bolt 37 extends through the notch 36 and the upper part of the vertical portion of the cross-shaped opening 35. A lock washer 38 and washer 39 may cooperate with the bolt head 37 and rear wall 30; and a lock washer 40, a notched washer 41, a nut 42, and upper part of the vertical portion of the cross-shaped opening 35 cooperate with the bolt for connecting the fixture 11 on the base plate 12, in supported position.

Because the opening 35 is cross-shaped, as well shown in Figs. 2 and 7, the ribs 31 and 32 of the fixture 11 may be inserted through the opening in any one of four fixed predetermined positions spaced ninety degrees apart so that the base plate will assume any one of the four positions shown either in full or in dot-dash lines in Fig. 1.

Thus the fixture may be attached to any upright or cross bar window frame member 43 by screws 44 without the necessity of providing a special type of fixture when it may be necessary to position the fixture base plate in any of the positions shown in Fig. 1 because of particular circumstances of each individual awning installation.

It can be readily understood that the fixture to which the present invention is applied need not necessarily include a worm and worm wheel, but a simple bearing member may be provided with ribs such as 31 and 32 which may cooperate with a base plate 9 as shown in Fig. 7 for being supported and connected thereto in any one of four positions.

It is pointed out that if for any reason the nut 42 should become unloosened or detached from the bolt 37, the fixture member 11 will still remain supported by the base plate 12 against downward or sideward movement by the action of the ribs 31 and 32 cooperating with the cross-shaped slot 35 and base plate wall 34.

I claim:

1. An awning fixture member, a base plate member for the fixture member, and means for supporting one of the members on the other member including a wall on one of the members, there being a cross-shaped opening formed in the wall, and crossed ribs on the other member insertible through the opening and cooperating with the wall.

2. An awning fixture including a casing having a rear wall, a base plate for the fixture having a wall provided with a cross-shaped opening, and crossed ribs extending rearwardly from the rear wall insertible through the opening cooperating with the base plate wall for supporting the fixture on the base plate.

3. An awning fixture including a casing having a rear wall, a base plate for the fixture having a forwardly paneled wall, there being

a cross-shaped opening in the forwardly paneled wall, a vertical rib extending rearwardly from the rear wall, a horizontal rib extending rearwardly from the vertical rib spaced from the rear wall, said ribs being insertible through the cross-shaped opening for engaging the rear face of the paneled wall for supporting the casing on the base plate, there being a notch in the rear wall in vertical alignment with the vertical rib, and means extending through the notch and opening for connecting the casing and base plate together.

4. An awning fixture including a base plate member having a base portion adapted to be secured to a window frame member in any one of a plurality of fixed predetermined positions, a fixture member, the base plate member having a fixture member attaching portion extending in parallel relation with the base portion thereof, and means for slidably attaching the fixture member to the base member attaching portion in one predetermined position regardless of the fixed predetermined position of the base plate member.

In testimony that I claim the above, I have hereunto subscribed my name.

WALTER C. ASTRUP.