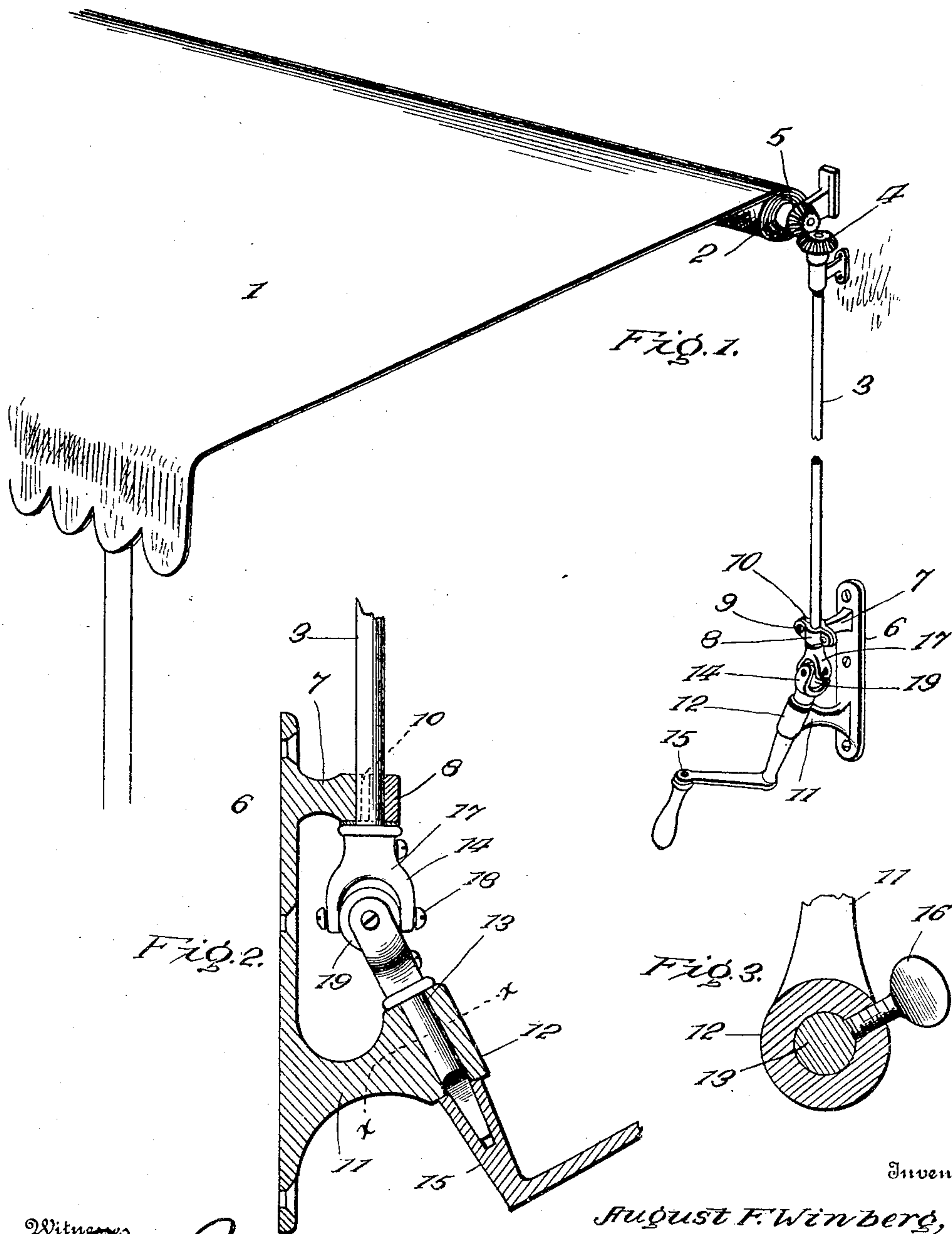


No. 808,963.

PATENTED JAN. 2, 1906.

A. F. WINBERG.
AWNING.

APPLICATION FILED APR. 19, 1905.



Inventor

August F. Winberg,

Witnesses

W. H. Woodson
W. H. Woodson.

By

R. H. H. H. H.
R. H. H. H. H., Attorneys

UNITED STATES PATENT OFFICE.

AUGUST F. WINBERG, OF NEW YORK, N. Y.

AWNING.

No. 808,963.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed April 19, 1905. Serial No. 256,467.

To all whom it may concern:

Be it known that I, AUGUST F. WINBERG, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Awnings, of which the following is a specification.

This invention embodies a novel operating mechanism for raising and lowering awnings of that type which are adapted to be rolled up upon a shaft or roller.

The essential feature of the invention resides in the simplified construction of the means by which the awning is raised or lowered, which facilitates the operation in a manner which will be described more clearly hereinafter.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a perspective view of an awning, showing the embodiment of the invention in actual use. Fig. 2 is a vertical longitudinal section through the operating mechanism. Fig. 3 is a transverse sectional view bringing out more clearly the arrangement of the brake-screw.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings, the numeral 1 indicates the awning proper, which is adapted to roll upon the roller 2, the latter being suitably mounted upon a support, such as a building or the like, by any substantial means. The operating mechanism comprising this invention is designed to revolve the roller 2 to raise and lower the awning in a manner which will be readily understood, and said mechanism comprises, essentially, a main shaft 3, provided at one end with a bevel-pinion 4, in mesh with a similar pinion 5, carried by one end of the roller 2. The shaft 3 is mounted in suitable bearings, and the lower end of said shaft has a bearing in a bracket 6, which is secured to a side of the support to which the awning is attached. The bracket 6 embodies a plate screwed or otherwise fastened to the support, said plate having a lug 7 projecting outwardly from its upper portion and formed with a recess to

receive the shaft 3 aforesaid. The lug 7 forms a bearing for the shaft, the latter being held in position thereon by means of a bearing-plate 8, which is attached, by means of screws or similar fastenings 9, to laterally-extending projections 10 of the lug 7. Projecting outwardly from the bracket-plate aforesaid is an arm 11, the outer extremity of which is formed with an inclined tubular head 12. Mounted in the tubular portion of the head 12 is a crank-shaft 13, connected by a universal joint or connection 14 with an adjacent end of the main shaft 3. The formation of the head 12 of the arm 11 affords an inclined bearing for the crank-shaft 13, so that said shaft inclines outwardly from the bracket, so as to enable a crank-handle 15 to be readily secured to the outermost extremity thereof. The outermost extremity, or that end of the shaft 13 opposite the universal connection 14, is squared, so as to receive the socket-piece of an ordinary form of crank-handle 15, before mentioned. The disposition of the shaft 13 is such that the crank-handle may be readily grasped and turned in order to rotate the shafts 3 and 13 to impart similar movement to the roller 2 in raising the awning 1.

In order to prevent the awning 1 from lowering after the same has been raised or to hold said awning at a predetermined angle, as may be desired by the user, it is preferred to utilize a set-screw 16, which is mounted in the head 12 and is adjustable, so that the inner extremity of said set-screw may be engaged with the crank-shaft 13 to prevent rotation of the latter. When the set-screw 16 is so engaged with the crank-shaft 13 as to prevent the latter from revolving, it will be seen that the awning is held in the desired position. The screw 16 is also utilized as a brake when lowering the awning, so that the latter may be unrolled gradually, in which instance the screw 16 merely frictionally binds against the shaft 13 to retard its movement actuated by the weight of the awning as it unrolls. The universal-joint connection 14 between the shafts 3 and 13 is provided by use of coupling members 17, having the adjacent ends bifurcated and apertured to receive screws 18, which engage the swivel-ball 19. The coupling members 17 are preferably detachably secured to the shaft upon which they are mounted by any suitable means, so that the member 17, carried by the

shaft 13, prevents displacement of the latter when the said screw 16 is not in engagement therewith.

Having thus described the invention, what
5 is claimed as new is—

In a device of the class described, the combination of the awning 1, the roller 2, the main shaft 3, the intermeshing pinions 4 and 5, the bracket 6, the lugs 7 projected from
10 the bracket and forming a bearing for the shaft 3, the arm 11 projected from the bracket and having the inclined tubular head

12, the crank-shaft 13 mounted in the head 12, the universal connection 14 between the shafts 3 and 13, the crank-handle 15, and the 15 set-screw 16 carried by the head 12 and adapted to engage the crank-shaft for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

AUGUST F. WINBERG. [L. s.]

Witnesses:

LE ROY B. SHERMAN,
LEWIS L. PIERCE.