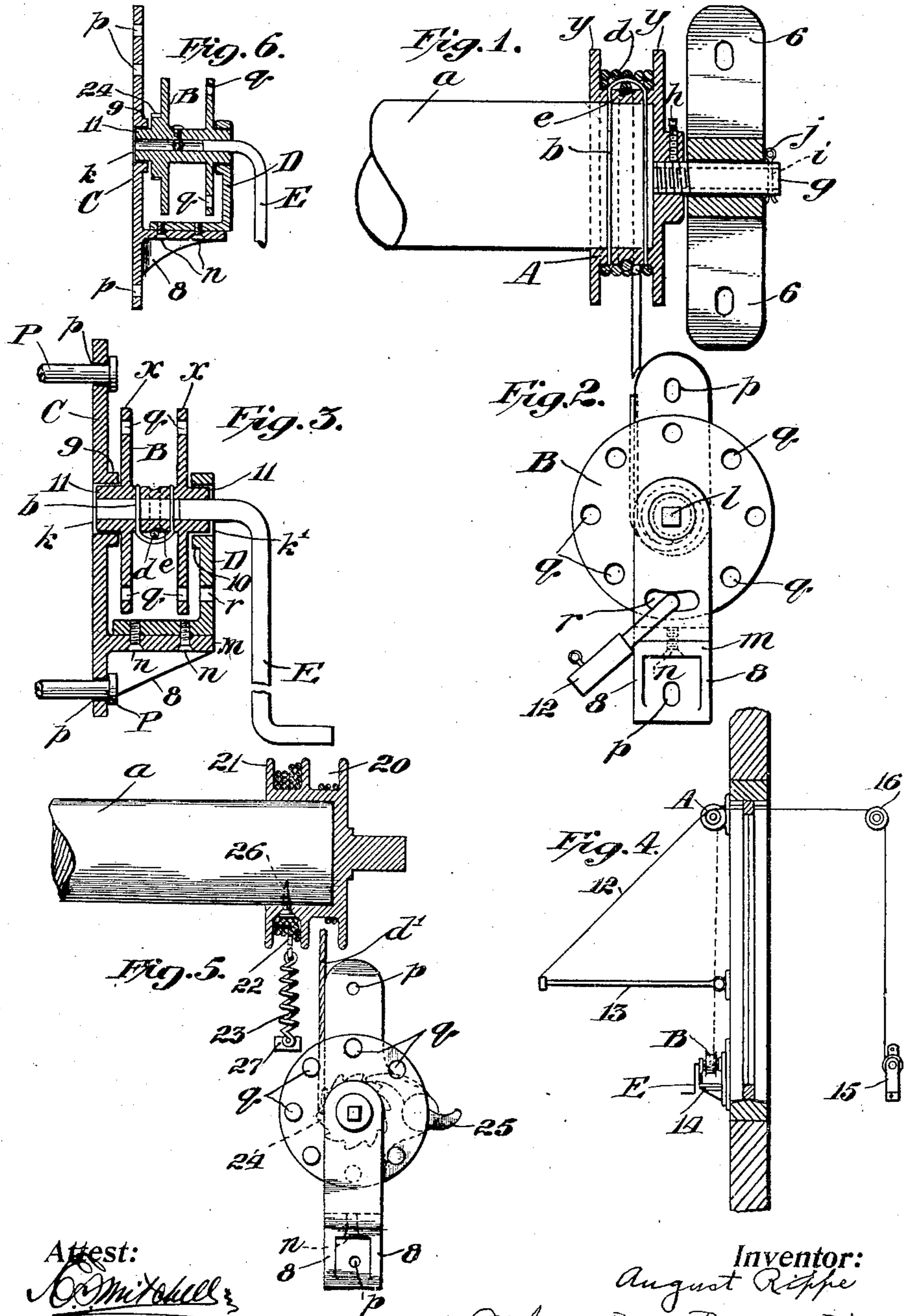


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PATENTED AUG. 28, 1906.

A. RIPPE.
AWNING.

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UNITED STATES PATENT OFFICE.

AUGUST RIPPE, OF SALT LAKE CITY, UTAH.

AWNING.

No. 829,430.

Specification of Letters Patent.

Patented Aug. 28, 1906.

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To all whom it may concern:

Be it known that I, AUGUST RIPPE, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Awnings; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to awnings, more particularly to means for raising and lowering the same; and the objects of the invention are to improve the construction of such devices and increase their efficiency, with simplicity of parts and cheapness of manufacture.

Other objects are to secure firmness and strength, with great durability, and afford provision for ready adjustability into different positions as desired.

Further objects of the invention will hereinafter appear; and to these ends the same consists of a device for carrying out the above objects embodying the features of construction, combinations of elements, and arrangement of parts having the general mode of operation substantially as hereinafter fully described and claimed in this specification and shown in the accompanying drawings, in which—

Figure 1 is a longitudinal sectional view of the reel on the awning-roller. Fig. 2 is a front view of the operating-reel. Fig. 3 is a longitudinal cross-sectional view of the operating-reel. Fig. 4 is a side view, partly in section, of the awning and reels, showing the operating-reel situated either inside or outside the house. Fig. 5 is a longitudinal sectional view of a double reel on the awning-roller and an operating-reel below it provided with a pawl and ratchet. Fig. 6 is a longitudinal cross-sectional view of an operating-reel provided with a pawl and ratchet.

According to my construction means are provided for raising and lowering awnings by rolling and unrolling the same about a roller. The apparatus is provided with two reels, one of which is attached to the end of the awning-roller and supported in a suitable way, while the other reel is placed below the roller-reel and is suitably attached to the side of

the house, window, or door above which the awning is placed. The lower or operating reel may, if desired, be placed inside the house and by means of an additional pulley made to operate in a very convenient manner. The reels are both made of the fewest possible parts and are all made reversible and interchangeable and require very little labor to adjust the same to any building, door, or window. The reels are usually made of iron, but can be made of wood or any other material suitable to the size of awning.

Referring to the drawings, in Fig. 1, *a* represents the pole or roller around which the awning is wound. To the end of the roller is attached the reel *A*, preferably made in the shape of a cap fitting over the end of the pole or roller *a* and attached thereto by suitable means, as the staple or bent wire *b*, passing through the pole. The bent wire or staple *b* not only holds the reel or cap on the roller by passing through the same, but it affords means for securely attaching the end of the rope *d* in the groove *e*. The reel *A* is provided with sides or flanges *y*, the height depending upon the size and length of rope required to be wound upon it. On the end of the reel or cap *A* is an internally-threaded portion or boss *f* for the purpose of attaching the trunnion *g*, which is held by means of the set-screw *h*. The trunnion *g* is provided with a hole *i*, through which a split pin *j* passes for the purpose of holding the trunnion in its bearing *6*.

The cap or reel *A* on the end of the roller *a* prevents the roller from splitting. This cap is made in one piece, affording a simple and very strong means of supporting the roller. No pins or nuts are used that are apt to work loose, and the reel when placed on the end of the roller takes up very little room.

Fig. 3 is a section of the operating-reel adapted to be directly attached to the side or interior of a house below the roller *a*. It preferably consists of three pieces *C*, *D*, and *B*. The back plate *C* is provided with holes *p*, through which anchor-bolts *P* pass for the purpose of fastening the same to the house, window, or door. *k* is a hole in the plate *C*, provided with a circular flange *9*, forming a bearing for the operating-reel *B*. Near the bottom of the plate *C* is a horizontally-extending portion *m*, supported in this instance by triangular ribs or brackets *8*. All are preferably made integral with the plate *C*. Through the horizontally-extending portion

m are holes through which the screws *n* pass for fastening the angle-plate D. The angle-plate D is provided with a hole *k'*, which has a circular flange 10, forming a bearing for the
 5 operating-reel B. The operating-reel B is provided with trunnions 11, which are supported by the plates C and D in the holes *k* and *k'*, respectively.

The sides or flanges *x* of the operating-reel
 10 B are provided with holes *q* around the outer edge of the sides. Opposite the holes *q* is a slot *r* in the front-plate D; through which can be passed a pin or padlock for locking the operating-reel B in any desired position. Thus
 15 it is seen that the awning can be raised or lowered to any required position and then locked. The end of the rope *d* is preferably fastened on the roller, as in the reel, by means of the staple or wire C, which passes through
 20 the center of the reel.

The operating-reel B is, as shown, made hollow. The hole *l* is made square to receive the crank E, which can be removed when required. The operating-reel B is re-
 25 versible and very easily put in position or removed.

Fig. 2 shows the operating-reel underneath the reel on the roller, the same being locked by means of the padlock 12. A pin can be
 30 used instead of the lock to adjust the awning to any desired position.

The operating-reel B can be easily removed from the crank-box, and different sizes of reels can be substituted for different-
 35 size awnings. The operating-reel, with crank-box, consists of only three pieces—namely, C D B—and the removable crank E.

The back plate C can be put in place without any part of the crank-box interfering
 40 with the same being put in place.

Fig. 4 is a side view showing the awning-sheet 12, which winds about the roller *a* and is held extended by means of the rods 13, one of which is shown. Two operating-reels are
 45 shown to illustrate both forms, the reel 14 being shown on the outside of the house and reel 15 being shown on the inside and working in combination with the pulley 16, the rope passing through a hole in the window to
 50 the reel on the roller.

In place of the single rope *d* an endless rope, chain, or band may be used.

It has been found in the use of large awnings provided with a single reel at the top, as
 55 in Fig. 1, that when the awning is raised or wound about the pole it is often hard to start the same unrolling when the awning is required. To obviate this disadvantage, a double reel 20 and 21 has been provided, as
 60 shown in Fig. 5.

The operation of this reel is as follows: The reel 20 operates the same as the single reel A. (Shown in Fig. 1.) The reel 21 is provided with a separate cord 22 or cable that
 65 winds in the opposite direction to the cable

d' on reel 20. The end of the cord 22 is provided with a spiral spring 23, which is attached to the house or window below the reel 21 by means of the stud or bracket 27. As
 70 the awning is wound up and the cord *d'* is unwound on the reel 20 the cord 22 is wound upon the reel 21, placing the spring 23 in tension, so that when the lower reel B is released the awning-pole *a* will start to unroll.

In Figs. 5 and 6 I have shown a ratchet 24,
 75 provided with a pawl 25 for regulating the movement of the lower reel B; otherwise the reel B is the same as shown in Figs. 2 and 3.

The double reel 20 and 21 is shown made in
 80 one piece and is secured to the end of the pole *a* by means of the screw 26.

I claim, and desire to obtain by Letters Patent, the following:

1. In an awning, a back plate secured directly to the side of a building, a horizontally-extending portion near the bottom of said back plate, two triangular-shaped brackets supporting said extending portion, an angular-shaped front plate attached to
 90 said extending portion, a reel supported by said back and front plates in bearings thereon, and a crank removably attached to the reel for operating the same.

2. In an awning, a back plate secured directly to the side of a building, a longitudinally-extending portion near the bottom thereof, two triangular-shaped brackets supporting said extending portion and made integral therewith, an angular-shaped front
 100 plate removably attached to said extending portion, a reel supported by said back and front plates in bearings thereon, and a slot in said front plate cooperating with holes in the periphery of the reel affording means for
 105 locking the same in any desired position.

3. In an awning, a back plate secured directly to the side of a building, a horizontally-extending portion near the bottom thereof, two triangular-shaped brackets supporting said extending portion and made integral therewith, an angular-shaped front
 110 plate removably attached to said extending portion, a reel supported by said back and front plates, a rope adapted to be wound thereon, trunnions made integral with said
 115 reel, a circular boss on said front and rear plates surrounding holes thereon forming bearings for supporting said reel, a slot in said front plate cooperating with holes in the
 120 periphery of the reel affording means for locking the same in any desired position, and a staple passing through the center of the reel for fastening the end of a rope.

4. In an awning, a back plate secured directly to the side of a building, a horizontally-extending portion near the bottom of said back plate, two triangular-shaped brackets supporting said extending portion, a
 125 pawl on said back plate, an angular-shaped
 130

front plate attached to said extending portion, a reel supported by said back and front plates in bearings thereon, a ratchet on said reel, and a crank removably attached to the
5 reel for operating the same.

5. In an awning, a back plate secured directly to the side of a building, a horizontal-extending portion near the bottom of said back plate, two triangular-shaped brackets
10 supporting said extending portion, an angular-shaped front plate attached to said extending portion by means of screws, a reel provided with trunnions and supported by
15 said back and front plates in bearings thereon, a ratchet made integral with said reel, a pawl secured to said back plate and made to operate with said ratchet, and a crank removably attached to the reel by means of a
20 square hole in said reel, substantially as described.

6. In an awning, a back plate secured directly to the side of the building, a horizontal-extending portion near the bottom of said back plate, two triangular-shaped brackets
25 supporting said extending portion, an angular-shaped front plate attached to said extending portion by means of screws, a reel

provided with trunnions and supported by said back and front plates in bearings thereon, a ratchet made integral with said reel, a
30 pawl secured to said back plate and made to operate with said ratchet, a crank removably attached to the reel by means of a square hole in said reel, and a slot in said front plate cooperating with holes in the periphery of
35 the reel, affording means for locking the same in any desired position.

7. In an awning, a back plate secured directly to the side of a building, a horizontal-extending portion near the bottom of said
40 back plate, an angular-shaped front plate attached to said extending portion, a reel supported by said back and front plates, a ratchet on said reel, a pawl made to operate with said ratchet, and means independent of
45 said pawl and ratchet for locking said reel.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

AUGUST RIPPE.

Witnesses:

GEO. K. OTT,
B. F. RIPPE.