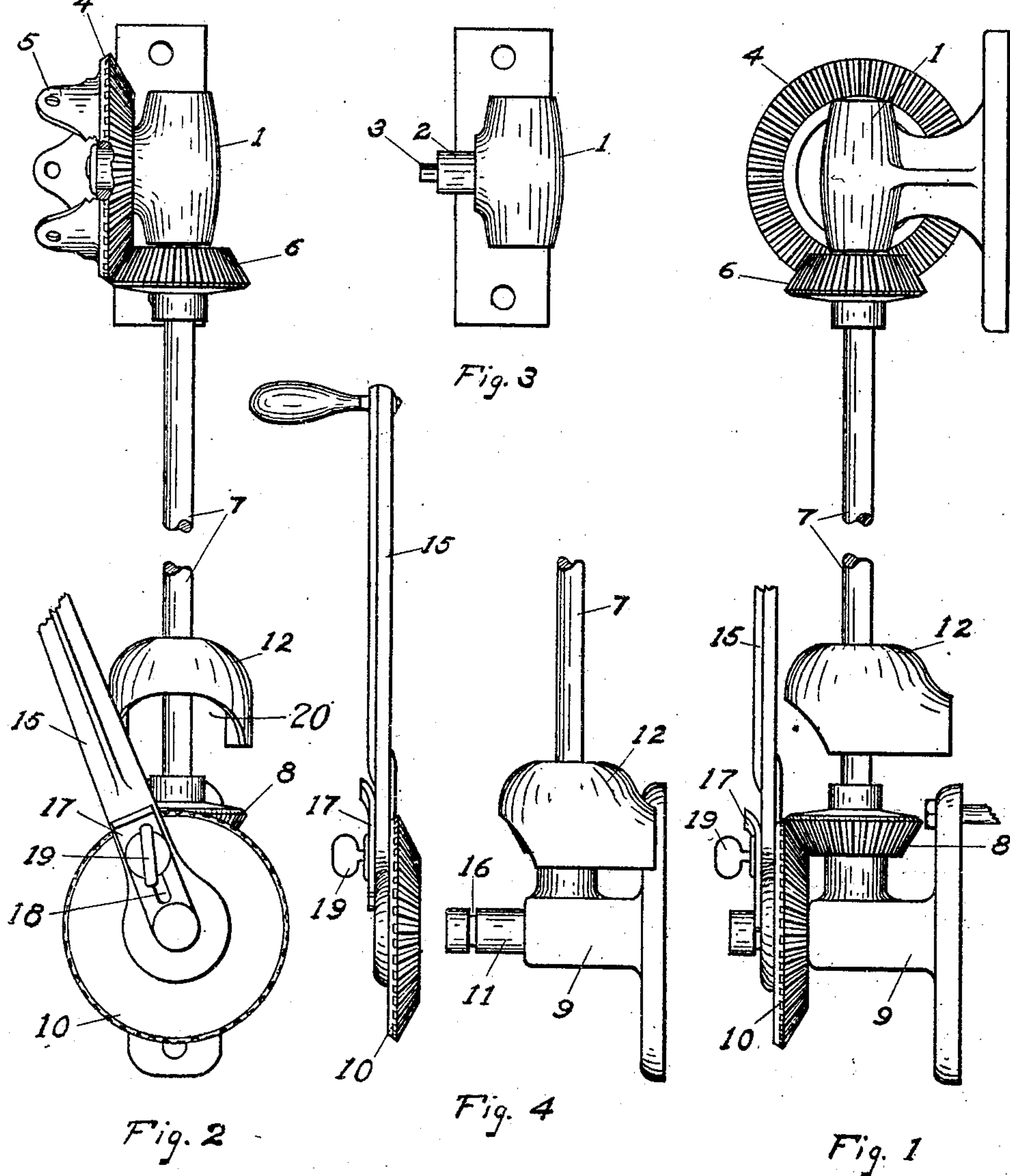


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 AWNING FIXTURE.
 APPLICATION FILED NOV. 16, 1908.

940,120.

Patented Nov. 16, 1909.



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FREDERICK OLIVER BERG, OF SPOKANE, WASHINGTON.

AWNING-FIXTURE.

940,120.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FREDERICK OLIVER BERG, a citizen of the United States, residing at Spokane, in the county of Spokane and State of Washington, have invented a new and useful Awning-Fixture, of which the following is a specification.

My invention relates to improvements in awnings, and the objects of my improvement are to provide an awning fixture that is compact and simple in construction, quickly assembled and mounted for use, and reliable in operation. I attain these objects by the mechanism illustrated in the accompanying drawing, in which—

Figure 1 is a side view of my improved awning fixture showing the different parts assembled and ready for use. Fig. 2 is a front view with upper gear broken away to show manner of attaching the gear-wheel to bracket. Fig. 3 is a detail view of the upper supporting bracket. Fig. 4 is a view of the lower supporting bracket with handle and gear detached, and locking cup lowered in operative position. Fig. 5 shows detail views of the gear-locking cup.

My improvement relates more particularly to that class of awnings in which a horizontal roller is revolved by a shaft and intermeshing gears actuated by a crank. As usually constructed, the ends of the roller are attached to the gear mechanism at some distance from the gear wheel and supporting bracket, thus leaving a space unprotected by the web of the awning. To overcome this, a bracket 1 (Fig. 3) provided with a bearing 2 on which the gear-wheel 4 revolves, and a pin 3 which is riveted upon a washer to secure the gear-wheel 4 upon the bearing 2. The outer face of the gear-wheel 4 is provided with a socket or ears 5 to receive the end of the roller and attach it to the gear mechanism, the ears 5 being preferably countersunk and made flush with the surface of the roller. This brings the gear-wheel close to the supporting bracket and allows the edge of the awning web to be wound upon the roller close to the outer face of the gear-wheel. The gear-wheel 4 is driven by gear-wheel 6 on the upper end of shaft 7 supported by brackets 1 and 9, and on the lower end of shaft 7 is a gear wheel 8 driven by removable gear-wheel 10 revolving on bearing 11. To provide means for locking the gearing so as to adjust the awning in any position desired, the inverted

cup 12 is slidably and rotatably mounted upon shaft 7.

The cup 12 has preferably upon its inner surface lugs 13 which engage the cogs of gear-wheel 8, and also has one side elongated and cut away so as to form lugs or arms 14 to engage the base of bracket 9. It will be seen that when the cup 12 is lowered so that the lugs 13 engage the upper ends of cogs of gear-wheel 8, and the arms 14 engage the base of bracket 9, the gear-wheel 8 is securely locked and cannot revolve until the cup is raised. It is necessary, to prevent interference with the adjustment of the awning, to make the actuating mechanism or crank detachable. This is accomplished by attaching the crank-handle 15 solidly to gear-wheel 10, and making the combined crank-handle 15 and gear-wheel 10 easily attachable and detachable on bearing 11. To do this, an annular groove 16 is made upon bearing 11, which is engaged by concave end of strip 17 having a slot 18 through which it is adjustably attached to the gear-wheel 10 and handle 15 by set-screw 19.

The awning fixture herein described is very easily operated, and the gear-locking device, being held in operative position by gravity, cannot become disengaged. To raise or lower the awning, the gear-wheel 10 with handle 15 is placed upon bearing 11, the strip 17 is adjusted so that its concave end engages groove 16, and is fastened by set-screw 19. By raising the cup 12 and holding it with the free hand, or by raising and turning it half around and resting it upon the top of base of bracket 9, a recess being made in the cup to prevent it from slipping off, the gearing is released and the awning may be raised or lowered by turning the crank-handle 15. When the awning is in the desired position, the cup is lowered over gear-wheel 8, thus locking it in position, and the gear-wheel 10 and the crank-handle 15 removed by unscrewing thumb-screw 19 and disengaging end of strip 17 from groove 16. The locking-cup 12 also serves as a protection and ornamental cover for the lower gear-wheel.

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

1. In an awning fixture, the combination with a support, a shaft mounted upon the support, and a gear-wheel attached to the shaft, of a gear-inclosing cup slidably and

revolubly mounted upon the shaft, the said cup having lugs engaging the cogs of the gear and the support respectively.

2. The combination with a support, a
5 shaft mounted upon the support, and a cog-wheel attached to the shaft, of a locking member revolubly and reciprocally mounted upon the shaft, the said member having lugs engaging the cogs of the wheel and a recess
10 engaging a lug on the support.

3. The combination with a support, a

shaft mounted upon the support, and a cog-wheel attached to the shaft, of a cog-inclosing member revolubly and reciprocally mounted upon the shaft, and means for locking the said member to the cogs of the wheel and the support respectively.

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Witnesses:

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